Appendix D
Analytical Laboratory Data Reports

100004596

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **10C101**

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** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-12-2010
EMAX Batch No.: 10C101

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 03/06/10.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB237-01	C101-01	03/01/10	SOIL	LEAD
CB237-02	C101-02	03/01/10	SOIL	LEAD
CP098-01	C101-03	03/01/10	SOIL	LEAD
CP100-01	C101-04	03/01/10	SOIL	LEAD
CB231-02	C101-05	03/02/10	SOIL	LEAD
CB231-01	C101-06	03/02/10	SOIL	LEAD
CP090-01	C101-07	03/02/10	SOIL	LEAD
CP090-02	C101-08	03/02/10	SOIL	LEAD
CB228-01	C101-09	03/02/10	SOIL	LEAD
CB228-02	C101-10	03/02/10	SOIL	LEAD
CB228-04	C101-11	03/03/10	SOIL	LEAD
CB228-03	C101-12	03/03/10	SOIL	LEAD
CB156-01	C101-13	03/03/10	SOIL	LEAD
CP058-01	C101-14	03/03/10	SOIL	LEAD
CB156-02	C101-15	03/03/10	SOIL	LEAD
CP058-02	C101-16	03/03/10	SOIL	LEAD
CP058-03	C101-17	03/03/10	SOIL	LEAD
CB157-01	C101-18	03/03/10	SOIL	LEAD
CB157-02	C101-19	03/03/10	SOIL	LEAD

Sample ID	Control #	Col Date	Matrix	Analysis
CP059-01	C101-20	03/03/10	SOIL	LEAD
CP059-02	C101-21	03/03/10	SOIL	LEAD
CB029-01	C101-22	03/04/10	SOIL	LEAD
CB134-01	C101-23	03/04/10	SOIL	LEAD
CB134-02	C101-24	03/04/10	SOIL	LEAD
CB134-03	C101-25	03/05/10	SOIL	LEAD
CB134-04	C101-26	03/05/10	SOIL	LEAD
CP091-01	C101-27	03/05/10	SOIL	LEAD
CP091-02	C101-28	03/05/10	SOIL	LEAD
CP091-03	C101-29	03/05/10	SOIL	LEAD
CP091-04	C101-30	03/05/10	SOIL	LEAD
CB138-01	C101-31	03/05/10	SOIL	LEAD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

LAB NAME: EMAX 1835 W. 205th Torrance, Ca 90501

CHAIN OF CUSTODY RECORD
Record/Work Request

LAB ADDRESS: 10 C101

Company: CH2M Hill, Inc.	Project Name/Number: Tar Creek OU4 Chat Characterization
Address: 14701 St. Mary's Lane Houston, Tx 77079	Project Manager: JOHN INFANTE
Phone: 2817218400 Fax: 2817218401	Purchase Order:
Print Name(s)/Affiliation: Joshua McFarlain	Preservation Codes
Sampler(s) Signature(s): [signature]	ANALYTICAL TESTS REQUESTED

Page 1 of 3

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody
Effective Date: March 17, 1999
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:
Requested Due Date: / /

	SAMPLE NO.	DATE	TIME	Grab or Composite	LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD (6010)	Remarks	Lab. No.
1	CB237-01	030110	1235	Comp.		1	X		
2	CB237-02	↓	1505	↓		↓	X		
3	CP098-01	↓	1545	Grab		↓	X		
4	CP100-01	↓	1600	↓		↓	X		
5	CB231-02	030210	935	Comp.		↓	X		
6	CB231-01	↓	1020	↓		↓	X		
7	CP090-01	↓	1100	Grab		↓	X		
8	CP090-02	↓	1115	↓		↓	X		
9	CB228-01	↓	1415	Comp.		↓	X		
10	CB228-02	↓	1525	↓		↓	X		
11	CB228-04	030310	1115	Comp.		1	X		
12	CB228-03	↓	1150	↓		↓	X		
13	CB156-01	↓	1325	↓		↓	X		
	~~[illegible]~~	Shipment Method:				13	<-- Total Number of Containers		

Out: / / Via:	Item Nos:	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / / Via:		[signature]	030510	1800	[signature]	3/6/10	10:00
Additional Comments:							

Cooler No. (s) / Temperature(s) (C)	Sampling Kit No.	Equipment ID Nos.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (blanks) O = Other (specify) GRAVEL

Preservation Codes: H = Hydrochloric acid + ice I = ice only N = Nitric acid + ice S = Sulfuric acid + ice 0 = Other (specify)

T = 3.4°C

1002

LAB NAME

CHAIN OF CUSTODY RECORD
Record/Work Request

10C101

LAB ADDRESS

Company: CH2M Hill, Inc.	Project Name/Number: Tar Creek OU4 Chat Characterization
Address: 14701 St. Mary's Lane Houston Tx 77079	Project Manager: John Infante
Phone: Fax:	Purchase Order:
Print Name(s)/Affiliation: Joshua McFailain	
Sampler(s) Signature(s):	

Page 2 of 3

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody
Effective Date: March 17, 1999
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:
Requested Due Date: / /

Preservation Codes

ANALYTICAL TESTS REQUESTED

7 DAY TAT

	SAMPLE NO.	DATE	TIME	Grab or Composite	LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD METHOD 6010								Remarks	Lab. No.
14	CP058-01	030310	1330	Grab		1	X									
15	CB156-02		1410	Comp.			X									
16	CP058-02		1415	Grab			X									
17	CP058-03		1425	Grab			X									
18	CB157-01		1535	Comp.			X									
19	CB157-02		1610				X									
20	CP059-01		1615	Grab			X									
21	CP059-02		1630				X									
22	CB029-01	030410	945	Comp			X									
23	CB134-01	030410	1500	Comp.			X									
24	CB134-02	030410	1540	Comp			X									
25	CB134-03	030510	925				X									
26	CB134-04	030510	955				X									
	Shipment Method:					13	<-- Total Number of Containers									

Out: / / Via:	Item Nos:	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / / Via:			030510	1800		3/6/10	10:00 AM
Additional Comments:							

Cooler No. (s) / Temperature(s) (C)	Sampling Kit No.	Equipment ID No.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (blanks) O = Other (specify)
Preservation Codes: H = Hydrochloric acid + ice I = ice only N = Nitric acid + ice S = Sulfuric acid + ice 0 = Other (specify)

T=3.4°C

1003

LAB NAME

CHAIN OF CUSTODY RECORD
Record/Work Request

10 C101

LAB ADDRESS

DEP Form #: 62-770.900(2)
Form Title: Chain of Custody
Effective Date: March 17, 1999
FDEP Facility No.
Project Name:
Sampling CompQAP No:
Approval Date:
Requested Due Date: / /

Company: CH2M Hill, INC
Address: 14701 St. Mary's Lane Houston Tx 77079
Phone: 281721 8400 Fax: 281721 8401
Print Name(s)/Affiliation: Joshua McFarlain
Sampler(s) Signature(s):

Project Name/Number: Tar Creek OU4 Chat Characterization
Project Manager:
Purchase Order:

Preservation Codes

ANALYTICAL TESTS REQUESTED

7 DAY TAT

	SAMPLE NO.	DATE	TIME	Grab or Composite	LOCATION	NUMBER OF CONTAINERS	TOTAL LEAD METHOD 6010								Remarks	Lab. No.
27	CP091-01	030510	1200	Grab		1	X									
28	CP091-02	↓	1230	↓		↓	X									
29	CP091-03		1244				X									
30	CP091-04		1300	↓			X									
31	CB138-01	↓	1505	Comp.		↓	X									

No additional samples

Shipment Method: 5 <-- Total Number of Containers

Out: / / Via:	Item Nos:	Relinquished by / Affiliations	Date	Time	Accepted by / Affiliation	Date	Time
Returned: / / Via:		[signature]	030510	1800	[signature]	3/6/10	10:00
Additional Comments:							

Cooler No. (s) / Temperature(s) (C)	Sampling Kit No.	Equipment ID No.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (blanks) O = Other (specify)
Preservation Codes: H = Hydrochloric acid + ice I = ice only N = Nitric acid + ice S = Sulfuric acid + ice 0 = Other (specify)

T = 3.4°C

1004

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 10C101
☐ EMAX Courier		Recepient I PATEL
☐ Client Delivery		Date 3-6-10
☑ Third Party Fedex	8696 0067 1721	Time 10:00 AM

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☐ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 3.4 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cuoler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
-04		CP100-01	Container 4oz	R5, R6
			JAR Rec'd Broken	
-18		CB157-01	" "	
-08		CB090-02	B3	R2
		3/2/10 1115		
-023	023	No Time	D2	R2

REVIEWS

Sample Labeling _____ Date 3-6-10

SRF _____ Date 3/6/10

PM _____ Date 3/8/10

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	Inform client. Transfer into new jars
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	Proceed with analysis
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

Linh Pham

From: John.Ynfante@CH2M.com
Sent: Monday, March 08, 2010 2:19 PM
To: Ye Myint
Cc: Linh Pham
Subject: RE: 10C101

one more note regarding these samples - please store the remaining material after removing the subsample needed for the total lead because we may need to run the #200 sieved zinc on some of these new samples as well. I am working on getting the list of samples from November that we need the #200 zinc run on and will send that to you as soon as I can.

Can you have your procurement guys look into purchasing a #200 sieve for use on the project and charging it to us on the lab invoice? And let me know how much we are looking at for that when you find out?

John Ynfante
CH2M HILL
2701 St. Mary's Lane, Suite 300
Houston, Texas 77079-2923
Direct: 281-721-8545
www.ch2mhill.com
John.Ynfante@ch2m.com

From: Ynfante, John/HOU
Sent: Monday, March 08, 2010 3:26 PM
To: 'Ye Myint'
Cc: 'Linh Pham'
Subject: RE: 10C101
Importance: High

oh - and I confirm - these samples are "Chat Characterization" samples and do not need to undergo the dry/sieve process prior to analysis. These are continuation of the chat samples that you received 11/14, 11/19, 11/25, 12/5, and 12/11 of last year and like those we will need you to crush them prior to analysis to diameter sizes of 1/4" or so if they are not already that small. If I recall the chat samples from November were already 1/4" or so in diameter and therefore didn't require any additional crushing so I'm guessing these will be similar.

Ye Myint
Chemist
2701 St. Mary's Lane, Suite 300
Houston, Texas 77079-2923
Direct: 281-721-8545
www.ch2mhill.com
myint@ch2m.com

From: Ynfante, John/HOU
Sent: Monday, March 08, 2010 2:41 PM
To: 'Ye Myint'
Cc: Linh Pham
Subject: RE: 10C101

If it was clearly apparent that the soil remained intact and independent with no cross-contamination then yes proceed with analysis.

Also, the guys are out of jars at the site and still need to collect some more samples - can you please ship them out 2 or 3 more cases of 4oz jars? And include a stack of COCs for them to use as well. Please have them delivered to the following address:

ATTN: Chuck Dougherty
Hampton Inn
115 S. Deacon Turner Road
Miami, OK 74354
918-541-1500

Thanks

John Ynfante
CH2M HILL
1111 St. Mary's Lane, Suite 300
Houston, Texas 77079-2923
Direct: 281-721-8546
www.ch2mhill.com
John.Ynfante@ch2m.com

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Monday, March 08, 2010 12:53 PM
To: Ynfante, John/HOU
Cc: Linh Pham
Subject: 10C101

John,

We received the samples from Tar Creek.

Samples C101-04 and -18 were received broken, but the soil is still intact inside the broken jars. Our sample custodian transferred the soil into new jars to prevent from cross-contamination. I had these two samples logged in for the analysis. Please let me know if you want us to cancel.

Client sample ID for sample C101-08 does not match between the label and COC. We will default it to the ID recorded in the COC.

Could you please confirm that these samples do not need to be dried and sieved prior to analysis?

Thanks.

Ye Myint
Project Manager
EMAX Laboratories, Inc.
1835W 205th. St.
Torrance, CA 90501
Ph: 310-618-8889 x121
Fax: 310-618-0818
E-mail: ymyint@emaxlabs.com

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METHOD 3050B/6010B
LEAD BY TRACE ICP

SDG#: 10C101

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 10C101

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of thirty-one (31) soil samples were received on 03/06/10 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary forms for details.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC017SL/C were all within QC limits.
Percent recoveries for IPC018SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries were within project QC limits except for one result qualified with [*] in C101-13 M/S summary form , most likely due to matrix interference. Check QC summary form for details.
Percent recoveries were within project QC limits except for one result qualified with [*] in C101-21 M/S summary form , most likely due to matrix interference. Check QC summary form for details.
In addition Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10C101
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC017SB	1	NA	03/10/1000:29	03/09/1009:30	ID8C010099	ID8C010097	IPC017S	Method Blank
LCS1S	IPC017SL	1	NA	03/10/1000:34	03/09/1009:30	ID8C010100	ID8C010097	IPC017S	Lab Control Sample (LCS)
LCD1S	IPC017SC	1	NA	03/10/1000:39	03/09/1009:30	ID8C010101	ID8C010097	IPC017S	LCS Duplicate
CB156-01AS	C101-13A	1	7.3	03/10/1000:44	03/09/1009:30	ID8C010102	ID8C010097	IPC017S	Analytical Spike Sample
CB156-01	C101-13	1	7.3	03/10/1000:49	03/09/1009:30	ID8C010103	ID8C010097	IPC017S	Field Sample
CB156-01DL	C101-13J	5	7.3	03/10/1000:54	03/09/1009:30	ID8C010104	ID8C010097	IPC017S	Diluted Sample
CB156-01MS	C101-13M	1	7.3	03/10/1000:59	03/09/1009:30	ID8C010105	ID8C010097	IPC017S	Matrix Spike Sample (MS)
CB156-01MSD	C101-13S	1	7.3	03/10/1001:04	03/09/1009:30	ID8C010106	ID8C010097	IPC017S	MS Duplicate (MSD)
CB237-01	C101-01	1	4.1	03/10/1001:10	03/09/1009:30	ID8C010107	ID8C010097	IPC017S	Field Sample
CB237-02	C101-02	1	7.8	03/10/1001:15	03/09/1009:30	ID8C010108	ID8C010097	IPC017S	Field Sample
CP098-01	C101-03	1	9.0	03/10/1001:33	03/09/1009:30	ID8C010111	ID8C010109	IPC017S	Field Sample
CP100-01	C101-04	1	7.4	03/10/1001:39	03/09/1009:30	ID8C010112	ID8C010109	IPC017S	Field Sample
CB231-02	C101-05	1	6.0	03/10/1001:43	03/09/1009:30	ID8C010113	ID8C010109	IPC017S	Field Sample
CB231-01	C101-06	1	11.3	03/10/1001:49	03/09/1009:30	ID8C010114	ID8C010109	IPC017S	Field Sample
CP090-01	C101-07	1	4.8	03/10/1001:54	03/09/1009:30	ID8C010115	ID8C010109	IPC017S	Field Sample
CP090-02	C101-08	1	7.4	03/10/1001:59	03/09/1009:30	ID8C010116	ID8C010109	IPC017S	Field Sample
CB228-01	C101-09	1	7.4	03/10/1002:04	03/09/1009:30	ID8C010117	ID8C010109	IPC017S	Field Sample
CB228-02	C101-10	1	6.8	03/10/1002:09	03/09/1009:30	ID8C010118	ID8C010109	IPC017S	Field Sample
CB228-04	C101-11	1	7.5	03/10/1002:14	03/09/1009:30	ID8C010119	ID8C010109	IPC017S	Field Sample
CB228-03	C101-12	1	9.4	03/10/1002:20	03/09/1009:30	ID8C010120	ID8C010109	IPC017S	Field Sample
CP058-01	C101-14	1	7.3	03/10/1002:39	03/09/1009:30	ID8C010123	ID8C010121	IPC017S	Field Sample
CB156-02	C101-15	1	8.3	03/10/1002:44	03/09/1009:30	ID8C010124	ID8C010121	IPC017S	Field Sample
CP058-02	C101-16	1	7.6	03/10/1002:49	03/09/1009:30	ID8C010125	ID8C010121	IPC017S	Field Sample
CP058-03	C101-17	1	14.6	03/10/1002:54	03/09/1009:30	ID8C010126	ID8C010121	IPC017S	Field Sample
CB157-01	C101-18	1	14.1	03/10/1002:59	03/09/1009:30	ID8C010127	ID8C010121	IPC017S	Field Sample
CB157-02	C101-19	1	11.2	03/10/1003:04	03/09/1009:30	ID8C010128	ID8C010121	IPC017S	Field Sample
CP059-01	C101-20	1	4.7	03/10/1003:10	03/09/1009:30	ID8C010129	ID8C010121	IPC017S	Field Sample
MBLK2S	IPC018SB	1	NA	03/10/1003:29	03/09/1009:45	ID8C010132	ID8C010130	IPC018S	Method Blank
LCS2S	IPC018SL	1	NA	03/10/1003:34	03/09/1009:45	ID8C010133	ID8C010130	IPC018S	Lab Control Sample (LCS)
LCD2S	IPC018SC	1	NA	03/10/1003:39	03/09/1009:45	ID8C010134	ID8C010130	IPC018S	LCS Duplicate
CP059-02AS	C101-21A	1	7.3	03/10/1003:43	03/09/1009:45	ID8C010135	ID8C010130	IPC018S	Analytical Spike Sample
CP059-02	C101-21	1	7.3	03/10/1003:49	03/09/1009:45	ID8C010136	ID8C010130	IPC018S	Field Sample
CP059-02DL	C101-21J	5	7.3	03/10/1003:54	03/09/1009:45	ID8C010137	ID8C010130	IPC018S	Diluted Sample
CP059-02MS	C101-21M	1	7.3	03/10/1003:59	03/09/1009:45	ID8C010138	ID8C010130	IPC018S	Matrix Spike Sample (MS)
CP059-02MSD	C101-21S	1	7.3	03/10/1004:04	03/09/1009:45	ID8C010139	ID8C010130	IPC018S	MS Duplicate (MSD)
CB029-01	C101-22	1	10.8	03/10/1004:09	03/09/1009:45	ID8C010140	ID8C010130	IPC018S	Field Sample
CB134-01	C101-23	1	18.6	03/10/1004:14	03/09/1009:45	ID8C010141	ID8C010130	IPC018S	Field Sample
CB134-02	C101-24	1	6.4	03/10/1004:33	03/09/1009:45	ID8C010144	ID8C010142	IPC018S	Field Sample
CB134-03	C101-25	1	7.9	03/10/1004:38	03/09/1009:45	ID8C010145	ID8C010142	IPC018S	Field Sample
CB134-04	C101-26	1	8.1	03/10/1004:44	03/09/1009:45	ID8C010146	ID8C010142	IPC018S	Field Sample
CP091-01	C101-27	1	7.3	03/10/1004:49	03/09/1009:45	ID8C010147	ID8C010142	IPC018S	Field Sample
CP091-02	C101-28	1	7.2	03/10/1004:54	03/09/1009:45	ID8C010148	ID8C010142	IPC018S	Field Sample
CP091-03	C101-29	1	7.6	03/10/1004:59	03/09/1009:45	ID8C010149	ID8C010142	IPC018S	Field Sample
CP091-04	C101-30	1	8.1	03/10/1005:04	03/09/1009:45	ID8C010150	ID8C010142	IPC018S	Field Sample
CB138-01	C101-31	1	9.0	03/10/1005:10	03/09/1009:45	ID8C010151	ID8C010142	IPC018S	Field Sample

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/10 12:35
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB237-01	Date Analyzed:	03/10/10 01:10
Lab Samp ID:	C101-01	Dilution Factor:	1
Lab File ID:	ID8C010107	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	4.1
Calib. Ref.:	ID8C010097	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	219	1.04	0.209

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/10 15:05
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB237-02	Date Analyzed:	03/10/10 01:15
Lab Samp ID:	C101-02	Dilution Factor:	1
Lab File ID:	ID8C010108	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.8
Calib. Ref.:	ID8C010097	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	149	1.08	0.217

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/10 15:45
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP098-01	Date Analyzed:	03/10/10 01:33
Lab Samp ID:	C101-03	Dilution Factor:	1
Lab File ID:	ID8C010111	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	9.0
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	51.3	1.10	0.220

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/10 16:00
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP100-01	Date Analyzed:	03/10/10 01:39
Lab Samp ID:	C101-04	Dilution Factor:	1
Lab File ID:	ID8C010112	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.4
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	102	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/10 09:35
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID	: CB231-02	Date Analyzed:	03/10/10 01:43
Lab Samp ID	: C101-05	Dilution Factor:	1
Lab File ID	: ID8C010113	Matrix :	SOIL
Ext Btch ID	: IPC017S	% Moisture :	6.0
Calib. Ref.	: ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	47.6	1.06	0.213

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/10 10:20
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB231-01	Date Analyzed:	03/10/10 01:49
Lab Samp ID:	C101-06	Dilution Factor:	1
Lab File ID:	ID8C010114	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	11.3
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	73.8	1.13	0.225

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/10 11:00
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP090-01	Date Analyzed:	03/10/10 01:54
Lab Samp ID:	C101-07	Dilution Factor:	1
Lab File ID:	ID8C010115	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	4.8
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	47.9	1.05	0.210

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/10 11:15
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP090-02	Date Analyzed:	03/10/10 01:59
Lab Samp ID:	C101-08	Dilution Factor:	1
Lab File ID:	I08C010116	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.4
Calib. Ref.:	I08C010109	Instrument ID :	EMAXTI08

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	28.0	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/10 14:15
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB228-01	Date Analyzed:	03/10/10 02:04
Lab Samp ID:	C101-09	Dilution Factor:	1
Lab File ID:	ID8C010117	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.4
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	469	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/10 15:25
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB228-02	Date Analyzed:	03/10/10 02:09
Lab Samp ID:	C101-10	Dilution Factor:	1
Lab File ID:	ID8C010118	Matrix :	SDIL
Ext Btch ID:	IPC017S	% Moisture :	6.8
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	740	1.07	0.215

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 11:15
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB228-04	Date Analyzed:	03/10/10 02:14
Lab Samp ID:	C101-11	Dilution Factor:	1
Lab File ID:	I08C010119	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.5
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	482	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 11:50
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB228-03	Date Analyzed:	03/10/10 02:20
Lab Samp ID:	C101-12	Dilution Factor:	1
Lab File ID:	ID8C010120	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	9.4
Calib. Ref.:	ID8C010109	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	5960	1.10	0.221

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 13:25
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB156-01	Date Analyzed:	03/10/10 00:49
Lab Samp ID:	C101-13	Dilution Factor:	1
Lab File ID:	ID8C010103	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.3
Calib. Ref.:	ID8C010097	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	116	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 13:30
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP058-01	Date Analyzed:	03/10/10 02:39
Lab Samp ID:	C101-14	Dilution Factor:	1
Lab File ID:	ID8C010123	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.3
Calib. Ref.:	ID8CD10121	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	150	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 14:10
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB156-02	Date Analyzed:	03/10/10 02:44
Lab Samp ID:	C101-15	Dilution Factor:	1
Lab File ID:	ID8C010124	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	8.3
Calib. Ref.:	ID8C010121	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	68.4	1.09	0.218

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 14:15
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP058-02	Date Analyzed:	03/10/10 02:49
Lab Samp ID:	C101-16	Dilution Factor:	1
Lab File ID:	ID8C010125	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	7.6
Calib. Ref.:	ID8C010121	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	68.6	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 14:25
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP058-03	Date Analyzed:	03/10/10 02:54
Lab Samp ID:	C101-17	Dilution Factor:	1
Lab File ID:	ID8C010126	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	14.6
Calib. Ref.:	ID8C010121	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	42.8	1.17	0.234

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 15:35
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB157-01	Date Analyzed:	03/10/10 02:59
Lab Samp ID:	C101-18	Dilution Factor:	1
Lab File ID:	ID8C010127	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	14.1
Calib. Ref.:	ID8C010121	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	43.8	1.16	0.233

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 16:10
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CB157-02	Date Analyzed:	03/10/10 03:04
Lab Samp ID:	C101-19	Dilution Factor:	1
Lab File ID:	ID8C010128	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	11.2
Calib. Ref.:	ID8C010121	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	150	1.13	0.225

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 16:15
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	CP059-01	Date Analyzed:	03/10/10 03:10
Lab Samp ID:	C101-20	Dilution Factor:	1
Lab File ID:	ID8C010129	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	4.7
Calib. Ref.:	ID8C010121	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	27.8	1.05	0.210

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/10 16:30
Project	: TAR CREEK DU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CP059-02	Date Analyzed:	03/10/10 03:49
Lab Samp ID:	C101-21	Dilution Factor:	1
Lab File ID:	ID8C010136	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	7.3
Calib. Ref.:	ID8C010130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	85.6	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/04/10 09:45
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CB029-01	Date Analyzed:	03/10/10 04:09
Lab Samp ID:	C101-22	Dilution Factor:	1
Lab File ID:	ID8C010140	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	10.8
Calib. Ref.:	ID8C010130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	656	1.12	0.224

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/04/10 15:00
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CB134-01	Date Analyzed:	03/10/10 04:14
Lab Samp ID:	C101-23	Dilution Factor:	1
Lab File ID:	ID8C010141	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	18.6
Calib. Ref.:	ID8C010130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	283	1.23	0.246

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/04/10 15:40
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CB134-02	Date Analyzed:	03/10/10 04:33
Lab Samp ID:	C101-24	Dilution Factor:	1
Lab File ID:	ID8C010144	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	6.4
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	466	1.07	0.214

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/05/10 09:25
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CB134-03	Date Analyzed:	03/10/10 04:38
Lab Samp ID:	C101-25	Dilution Factor:	1
Lab File ID:	ID8C010145	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	7.9
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	228	1.09	0.217

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/05/10 09:55
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CB134-04	Date Analyzed:	03/10/10 04:44
Lab Samp ID:	C101-26	Dilution Factor:	1
Lab File ID:	ID8C010146	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	8.1
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	203	1.09	0.218

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/05/10 12:00
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CP091-01	Date Analyzed:	03/10/10 04:49
Lab Samp ID:	C101-27	Dilution Factor:	1
Lab File ID:	ID8C010147	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	7.3
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	377	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/05/10 12:30
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CP091-02	Date Analyzed:	03/10/10 04:54
Lab Samp ID:	C101-28	Dilution Factor:	1
Lab File ID:	ID8C010148	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	7.2
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	105	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/05/10 12:44
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CP091-03	Date Analyzed:	03/10/10 04:59
Lab Samp ID:	C101-29	Dilution Factor:	1
Lab File ID:	ID8C010149	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	7.6
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	256	1.08	0.216

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/05/10 13:00
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CP091-04	Date Analyzed:	03/10/10 05:04
Lab Samp ID:	C101-30	Dilution Factor:	1
Lab File ID:	ID8C010150	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	8.1
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	469	1.09	0.218

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/05/10 15:05
Project	: TAR CREEK OU4	Date Received:	03/06/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	CB138-01	Date Analyzed:	03/10/10 05:10
Lab Samp ID:	C101-31	Dilution Factor:	1
Lab File ID:	ID8C010151	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	9.0
Calib. Ref.:	ID8C010142	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	2360	1.10	0.220

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/09/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:30
Sample ID:	MBLK1S	Date Analyzed:	03/10/10 00:29
Lab Samp ID:	IPC017SB	Dilution Factor:	1
Lab File ID:	ID8C010099	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	NA
Calib. Ref.:	ID8C010097	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC017SB	IPC017SL	IPC017SC		
LAB FILE ID:	ID8C010099	ID8C010100	ID8C010101		
DATIME EXTRCTD:	03/09/1009:30	03/09/1009:30	03/09/1009:30	DATE COLLECTED:	NA
DATIME ANALYZD:	03/10/1000:29	03/10/1000:34	03/10/1000:39	DATE RECEIVED:	03/09/10
PREP. BATCH:	IPC017S	IPC017S	IPC017S		
CALIB. REF:	ID8C010097	ID8C010097	ID8C010097		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	47.8	96	50	47.7	95	0	80-120	20

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/09/10
SDG NO.	: 10C101	Date Extracted:	03/09/10 09:45
Sample ID:	MBLK2S	Date Analyzed:	03/10/10 03:29
Lab Samp ID:	IPC018SB	Dilution Factor:	1
Lab File ID:	ID8C010132	Matrix :	SOIL
Ext Btch ID:	IPC018S	% Moisture :	NA
Calib. Ref.:	ID8C010130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	IPC018SB	IPC018SL	IPC018SC		
LAB FILE ID:	ID8C010132	ID8C010133	ID8C010134		
DATIME EXTRCTD:	03/09/1009:45	03/09/1009:45	03/09/1009:45	DATE COLLECTED:	NA
DATIME ANALYZD:	03/10/1003:29	03/10/1003:34	03/10/1003:39	DATE RECEIVED:	03/09/10
PREP. BATCH:	IPC018S	IPC018S	IPC018S		
CALIB. REF:	ID8C010130	ID8C010130	ID8C010130		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	47.6	95	50	47.5	95	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	7.3
DILTN FACTR:	1	1	1		
SAMPLE ID:	CB156-01				
CONTROL NO.:	C101-13	C101-13M	C101-13S		
LAB FILE ID:	ID8C010103	ID8C010105	ID8C010106		
DATIME EXTRCTD:	03/09/1009:30	03/09/1009:30	03/09/1009:30	DATE COLLECTED:	03/03/10 13:25
DATIME ANALYZD:	03/10/1000:49	03/10/1000:59	03/10/1001:04	DATE RECEIVED:	03/06/10
PREP. BATCH:	IPC017S	IPC017S	IPC017S		
CALIB. REF:	ID8C010097	ID8C010097	ID8C010097		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	116	53.9	153	68*	53.9	148	60*	3	75-125	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	7.3
DILTN FACTR:	1	1	1		
SAMPLE ID:	CP059-02				
CONTROL NO.:	C101-21	C101-21M	C101-21S		
LAB FILE ID:	ID8C010136	ID8C010138	ID8C010139		
DATIME EXTRCTD:	03/09/1009:45	03/09/1009:45	03/09/1009:45	DATE COLLECTED:	03/03/10 16:30
DATIME ANALYZD:	03/10/1003:49	03/10/1003:59	03/10/1004:04	DATE RECEIVED:	03/06/10
PREP. BATCH:	IPC018S	IPC018S	IPC018S		
CALIB. REF:	ID8C010130	ID8C010130	I08C010130		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	85.6	53.9	83.6	-4*	53.9	81.7	-7*	2	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	7.3
DILUTION FACTOR:	1	5		
SAMPLE ID:	CB156-01	CB156-01DL		
EMAX SAMP ID:	C101-13	C101-13J		
LAB FILE ID:	ID8C010103	ID8C010104		
DATE EXTRACTED:	03/09/1009:30	03/09/1009:30	DATE COLLECTED:	03/03/10 13:25
DATE ANALYZED:	03/10/1000:49	03/10/1000:54	DATE RECEIVED:	03/06/10
PREP. BATCH:	IPC017S	IPC017S		
CALIB. REF:	ID8C010097	IDBC010097		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	116	119	3	10

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	7.3
DILUTION FACTOR:	1	5		
SAMPLE ID:	CP059-02	CP059-02DL		
EMAX SAMP ID:	C101-21	C101-21J		
LAB FILE ID:	ID8C010136	ID8C010137		
DATE EXTRACTED:	03/09/1009:45	03/09/1009:45	DATE COLLECTED:	03/03/10 16:30
DATE ANALYZED:	03/10/1003:49	03/10/1003:54	DATE RECEIVED:	03/06/10
PREP. BATCH:	IPC018S	IPC018S		
CALIB. REF:	ID8C010130	ID8C010130		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	85.6	87.9	3	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	7.3
DILTN FACTR:	1	1		
SAMPLE ID:	CB156-01			
CONTROL NO.:	C101-13	C101-13A		
LAB FILE ID:	ID8C010103	ID8C010102		
DATIME EXTRCTD:	03/09/1009:30	03/09/1009:30	DATE COLLECTED:	03/03/10 13:25
DATIME ANALYZD:	03/10/1000:49	03/10/1000:44	DATE RECEIVED:	03/06/10
PREP. BATCH:	IPC017S	IPC017S		
CALIB. REF:	ID8C010097	ID8C010097		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	116	53.9	164	89	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10C101
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	7.3
DILTN FACTR:	1	1		
SAMPLE ID:	CP059-02			
CONTROL NO.:	C101-21	C101-21A		
LAB FILE ID:	ID8C010136	ID8C010135		
DATIME EXTRCTD:	03/09/1009:45	03/09/1009:45	DATE COLLECTED:	03/03/10 16:30
DATIME ANALYZD:	03/10/1003:49	03/10/1003:43	DATE RECEIVED:	03/06/10
PREP. BATCH:	IPC018S	IPC018S		
CALIB. REF:	ID8C010130	ID8C010130		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	85.6	53.9	134	89	75-125

TRACE-LOW ICP CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit %	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/9/10 15:36

End Date: 3/10/10 05:24

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	1
☐ EMAX-	

Comments: - CUB1 Fe = 0.0055 (>2XMDL) however associated samples >100X blank conc. level
- C085-08 NA>LDR

Book #: AD8-013

Instrument No.: D8

Analytical Batch: 1D8C010

Analytical Sequence: S-10C6010b(V6)

Method File: 10C6010b(V6)

Database: Emax11

STANDARDS ID	
S0	SMIB12-27-05
S1	NA
S2	SMIB11-72-03
S3	NA
S4	NA
S5	SMIB11 7204
S6	NA
S7	NA
S8	SMIB11-77-03
S9	NA
S11	SMIB12 0802
S17	↓ 0803
ICV	SMIB11-71-04
CCV	SMIB12-26-07
ICSA	↓ 41-01
ICSAB	SMIB11-84-01
CRI/MRL Fe 0.03	SMIB12 44-04
CAM	SMIB11 7601

Analyzed By: TH

Date: 3/10/10

SEQUENCE FILE : ID8C010

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C010001	Blank	15:36	03/09/10	1.000
ID8C010002	S2	15:41	03/09/10	1.000
ID8C010003	S5	15:46	03/09/10	1.000
ID8C010004	S8	15:51	03/09/10	1.000
ID8C010005	S11	15:56	03/09/10	1.000
ID8C010006	S17	16:01	03/09/10	1.000
ID8C010007	ICV	16:06	03/09/10	1.000
ID8C010008	ICB	16:11	03/09/10	1.000
ID8C010009	MRLC1001	16:16	03/09/10	1.000
ID8C010010	MRLC1002	16:21	03/09/10	1.000
ID8C010011	ICSA1	16:26	03/09/10	1.000
ID8C010012	ICSAB1	16:31	03/09/10	1.000
ID8C010013	CCV1	16:40	03/09/10	1.000
ID8C010014	CCB1	16:45	03/09/10	1.000
ID8C010015	IPC015SB	16:50	03/09/10	1.000
ID8C010016	IPC015SL	16:55	03/09/10	1.000
ID8C010017	IPC015SC	17:00	03/09/10	1.000
ID8C010018	C021-01A	17:05	03/09/10	1.000
ID8C010019	C021-01	17:10	03/09/10	1.000
ID8C010020	C021-01J	17:15	03/09/10	5.000
ID8C010021	C021-01M	17:20	03/09/10	1.000
ID8C010022	C021-01S	17:25	03/09/10	1.000
ID8C010023	C021-02	17:30	03/09/10	1.000
ID8C010024	C021-03	17:35	03/09/10	1.000
ID8C010025	CCV2	17:44	03/09/10	1.000
ID8C010026	CCB2	17:49	03/09/10	1.000
ID8C010027	C021-04	17:54	03/09/10	1.000
ID8C010028	C021-05	17:59	03/09/10	1.000
ID8C010029	C021-06	18:04	03/09/10	1.000
ID8C010030	C021-07	18:09	03/09/10	1.000
ID8C010031	C021-08	18:14	03/09/10	1.000
ID8C010032	C021-09	18:19	03/09/10	1.000
ID8C010033	C067-01	18:24	03/09/10	1.000
ID8C010034	C089-01	18:29	03/09/10	1.000
ID8C010035	C089-02	18:35	03/09/10	1.000
ID8C010036	CCV3	18:44	03/09/10	1.000
ID8C010037	CCB3	18:48	03/09/10	1.000
ID8C010038	IPC010WB	18:54	03/09/10	1.000
ID8C010039	IPC010WL	18:59	03/09/10	1.000
ID8C010040	IPC010WC	19:03	03/09/10	1.000
ID8C010041	C008-02A	19:08	03/09/10	1.000
ID8C010042	C008-02	19:14	03/09/10	1.000
ID8C010043	C008-02J	19:19	03/09/10	5.000
ID8C010044	C008-04	19:24	03/09/10	1.000
ID8C010045	C045-03	19:29	03/09/10	1.000
ID8C010046	C045-04	19:34	03/09/10	1.000
ID8C010047	C416-01	19:39	03/09/10	1.000
ID8C010048	CCV4	19:48	03/09/10	1.000
ID8C010049	CCB4	19:53	03/09/10	1.000
ID8C010050	IPC016WB	19:58	03/09/10	1.000
ID8C010051	IPC016WL	20:03	03/09/10	1.000
ID8C010052	IPC016WC	20:08	03/09/10	1.000
ID8C010053	C051-06A	20:13	03/09/10	1.000
ID8C010054	C051-06	20:18	03/09/10	1.000

ID8C010055	C051-06J	20:23	03/09/10	5.000
ID8C010056	C051-06M	20:28	03/09/10	1.000
ID8C010057	C051-06S	20:33	03/09/10	1.000
ID8C010058	C051-04	20:38	03/09/10	1.000
ID8C010059	C051-05	20:43	03/09/10	1.000
ID8C010060	CCV5	20:52	03/09/10	1.000
ID8C010061	CCB5	20:57	03/09/10	1.000
ID8C010062	C051-07	21:02	03/09/10	1.000
ID8C010063	C051-08	21:07	03/09/10	1.000
ID8C010064	C051-12	21:12	03/09/10	1.000
ID8C010065	C051-16	21:18	03/09/10	1.000
ID8C010066	C051-20	21:23	03/09/10	1.000
ID8C010067	C051-23	21:28	03/09/10	1.000
ID8C010068	C049-01	21:33	03/09/10	1.000
ID8C010069	C085-01	21:38	03/09/10	1.000
ID8C010070	C085-02	21:44	03/09/10	1.000
ID8C010071	C085-03	21:49	03/09/10	1.000
ID8C010072	CCV6	21:58	03/09/10	1.000
ID8C010073	CCB6	22:03	03/09/10	1.000
ID8C010074	C085-04	22:08	03/09/10	1.000
ID8C010075	C085-05	22:13	03/09/10	1.000
ID8C010076	C085-06	22:18	03/09/10	1.000
ID8C010077	C085-07	22:24	03/09/10	1.000
ID8C010078	C085-08	22:29	03/09/10	1.000
ID8C010079	ICSA2	22:36	03/09/10	1.000
ID8C010080	ICSAB2	22:41	03/09/10	1.000
ID8C010081	CCV7	22:50	03/09/10	1.000
ID8C010082	CCB7	22:55	03/09/10	1.000
ID8C010083	IPC022SB	23:00	03/09/10	1.000
ID8C010084	IPC022SL	23:06	03/09/10	1.000
ID8C010085	A271-01A	23:11	03/09/10	1.000
ID8C010086	A271-01	23:16	03/09/10	1.000
ID8C010087	A271-01J	23:21	03/09/10	5.000
ID8C010088	A271-02	23:26	03/09/10	1.000
ID8C010089	CCV8	23:35	03/09/10	1.000
ID8C010090	CCB8	23:40	03/09/10	1.000
ID8C010091	IPC023SB	23:45	03/09/10	1.000
ID8C010092	IPC023SL	23:50	03/09/10	1.000
ID8C010093	A271-01A	23:55	03/09/10	1.000
ID8C010094	A271-01	00:00	03/10/10	1.000
ID8C010095	A271-01J	00:05	03/10/10	5.000
ID8C010096	A271-02	00:10	03/10/10	1.000
ID8C010097	CCV9	00:19	03/10/10	1.000
ID8C010098	CCB9	00:24	03/10/10	1.000
ID8C010099	IPC017SB	00:29	03/10/10	1.000
ID8C010100	IPC017SL	00:34	03/10/10	1.000
ID8C010101	IPC017SC	00:39	03/10/10	1.000
ID8C010102	C101-13A	00:44	03/10/10	1.000
ID8C010103	C101-13	00:49	03/10/10	1.000
ID8C010104	C101-13J	00:54	03/10/10	5.000
ID8C010105	C101-13M	00:59	03/10/10	1.000
ID8C010106	C101-13S	01:04	03/10/10	1.000
ID8C010107	C101-01	01:10	03/10/10	1.000
ID8C010108	C101-02	01:15	03/10/10	1.000
ID8C010109	CCV10	01:24	03/10/10	1.000
ID8C010110	CCB10	01:28	03/10/10	1.000
ID8C010111	C101-03	01:33	03/10/10	1.000

ID8C010112	C101-04	01:39	03/10/10	1.000
ID8C010113	C101-05	01:43	03/10/10	1.000
ID8C010114	C101-06	01:49	03/10/10	1.000
ID8C010115	C101-07	01:54	03/10/10	1.000
ID8C010116	C101-08	01:59	03/10/10	1.000
ID8C010117	C101-09	02:04	03/10/10	1.000
ID8C010118	C101-10	02:09	03/10/10	1.000
ID8C010119	C101-11	02:14	03/10/10	1.000
ID8C010120	C101-12	02:20	03/10/10	1.000
ID8C010121	CCV11	02:29	03/10/10	1.000
ID8C010122	CCB11	02:33	03/10/10	1.000
ID8C010123	C101-14	02:39	03/10/10	1.000
ID8C010124	C101-15	02:44	03/10/10	1.000
ID8C010125	C101-16	02:49	03/10/10	1.000
ID8C010126	C101-17	02:54	03/10/10	1.000
ID8C010127	C101-18	02:59	03/10/10	1.000
ID8C010128	C101-19	03:04	03/10/10	1.000
ID8C010129	C101-20	03:10	03/10/10	1.000
ID8C010130	CCV12	03:19	03/10/10	1.000
ID8C010131	CCB12	03:23	03/10/10	1.000
ID8C010132	IPC018S8	03:29	03/10/10	1.000
ID8C010133	IPC018SL	03:34	03/10/10	1.000
ID8C010134	IPC018SC	03:39	03/10/10	1.000
ID8C010135	C101-21A	03:43	03/10/10	1.000
ID8C010136	C101-21	03:49	03/10/10	1.000
ID8C010137	C101-21J	03:54	03/10/10	5.000
ID8C010138	C101-21M	03:59	03/10/10	1.000
ID8C010139	C101-21S	04:04	03/10/10	1.000
ID8C010140	C101-22	04:09	03/10/10	1.000
ID8C010141	C101-23	04:14	03/10/10	1.000
ID8C010142	CCV13	04:23	03/10/10	1.000
ID8C010143	CCB13	04:28	03/10/10	1.000
ID8C010144	C101-24	04:33	03/10/10	1.000
ID8C010145	C101-25	04:38	03/10/10	1.000
ID8C010146	C101-26	04:44	03/10/10	1.000
ID8C010147	C101-27	04:49	03/10/10	1.000
ID8C010148	C101-28	04:54	03/10/10	1.000
ID8C010149	C101-29	04:59	03/10/10	1.000
ID8C010150	C101-30	05:04	03/10/10	1.000
ID8C010151	C101-31	05:10	03/10/10	1.000
ID8C010152	CCV14	05:19	03/10/10	1.000
ID8C010153	CCB14	05:24	03/10/10	1.000

SDG : 10C101 UNIT : % SUMMARY of ICV and CCV : ID8C010 DATE : 03/09/10 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	96	103	105	98	100	96	101	100	98	98	99	96	97	103	99	96	103	99	99	105	101	100	98	94	100	100	100	102
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1001	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1002	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	93	----	----	----	----	----	----	91	----	----	----	86	----	----	102	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	92	109	107	94	96	99	98	90	91	94	105	86	89	110	101	89	102	93	105	108	111	104	97	87	95	96	95	99
CCV1	97	103	105	98	99	96	101	100	98	99	98	95	97	103	99	95	103	98	98	105	100	99	97	95	101	100	100	102
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	97	105	105	98	100	96	102	101	99	101	98	96	98	103	100	96	104	99	100	106	101	101	97	96	103	101	101	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C067-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	96	105	106	98	99	96	102	102	99	101	99	97	98	104	100	96	104	99	100	106	102	101	98	96	103	101	102	104
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C045-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C416-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	96	104	106	97	99	96	103	101	99	101	99	97	98	105	99	97	104	100	100	106	102	101	98	96	103	99	102	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C051-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	95	104	106	96	99	96	102	101	99	99	98	97	97	103	99	96	103	98	99	105	101	99	97	94	101	99	101	103
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C049-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	95	104	106	96	98	96	101	101	99	98	98	97	96	104	99	96	102	98	100	105	101	99	97	94	101	98	102	103
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C0B5-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C0B5-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	91	----	----	----	----	----	----	92	----	----	----	88	----	----	101	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	91	109	108	92	94	98	98	91	92	94	105	88	89	111	99	88	101	92	106	108	112	100	97	86	95	93	97	100
CCV7	95	103	106	96	97	96	101	101	101	98	98	98	96	105	97	95	102	98	101	105	102	99	98	94	100	97	102	104
CC87	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	94	103	105	95	96	95	100	100	99	97	97	97	95	104	96	93	101	97	100	104	101	100	96	93	99	97	100	102
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	93	102	104	94	96	94	100	99	99	97	97	97	95	104	96	93	101	97	100	103	100	100	96	93	99	96	101	102
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	94	103	106	96	97	96	101	101	100	98	98	99	96	105	97	94	102	98	102	105	102	102	98	94	100	98	102	104
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C101-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	94	103	107	96	97	96	101	101	101	98	99	100	96	106	96	94	101	98	102	105	103	103	98	94	100	97	103	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	94	102	106	95	96	96	101	101	101	97	99	100	96	106	95	94	101	98	103	105	103	103	98	94	100	96	103	103
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	94	103	106	95	96	96	101	101	101	97	99	100	96	106	95	94	101	98	103	105	102	103	98	93	100	96	103	104
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	94	103	107	96	97	96	101	101	101	97	99	100	96	107	96	93	101	98	104	105	103	103	98	94	100	97	102	104
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 10C101 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C010 (SOIL) DATE : 03/09/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	3.07	.220	1.31	.130	.100	-1.08	-.030	101	-.050	.040	-.010	16.1	.640	-.720	16.1	.140	.140	-.570	8.69	.500	.030	15.9	.210	-.250	.130	.620	-.030	9.56
MRLC1001	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1002	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	3.06	2.17	.690	-.030	3.66	-3.35	----	-.630	.140	1.99	----	-2.60	4.25	----	-.800	-3.23	.810	52.1	.580	.650	90.6	6.98	-6.24	2.05	-1.80	4.22	8.97
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	7.06	.420	.640	.020	.060	-1.94	.010	28.6	-.080	-.020	-.210	5.50	.680	-.110	33.5	.120	.100	-.600	.780	.030	.060	13.6	.200	-.060	.270	.570	.100	2.63
IPC015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-.750	.390	.400	.060	.050	-2.85	-.020	17.4	-.110	-.060	-.330	2.07	.160	-.170	14.3	-.030	.030	-.590	11.0	-1.58	.060	5.20	.150	-.430	.360	.610	.090	1.11
C021-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C021-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C067-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-1.30	-.940	.940	.160	.160	-3.75	.030	19.3	.010	-.030	-.440	1.70	.130	-.590	37.5	.260	-.020	-.620	19.3	.170	.020	6.28	.280	-.250	.350	1.78	.050	.000
IPC010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C045-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C416-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-2.52	-.060	.790	.010	.120	-4.02	.040	6.37	-.100	.030	-.430	2.93	-.130	-.120	12.5	.050	-.070	-.700	4.15	-.490	.030	15.8	.180	-.270	.140	.950	.080	.060
IPC016WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C051-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-3.36	2.88	.230	-.060	.020	-4.40	.000	2.30	-.070	.140	-.370	.030	.180	-.270	4.09	-.050	-.030	-.660	32.3	.880	.020	47.0	.120	-.440	.350	.630	.060	.260
C051-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C049-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-3.09	.120	1.25	-.020	-.010	-4.15	.010	1.31	-.010	.040	-.450	.240	.130	-.500	3.52	-.070	.050	-.640	55.3	-.240	.010	124	.060	-.060	.140	.530	-.100	.300
C085-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C085-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	3.33	.990	.610	-.050	2.77	-4.91	----	-.280	.010	1.85	----	-2.62	5.29	----	-.860	-3.38	1.11	640	-.770	.560	1609	7.06	-6.36	2.06	-1.72	4.26	4.58
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	.350	.240	.290	.080	.110	-4.37	.080	15.9	-.110	.130	-.390	1.44	-.010	-.630	18.1	.060	.120	-.760	86.1	.090	-.030	220	.210	-.110	.060	.670	.030	.170
IPC022SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-.680	2.07	.850	.070	.140	-4.68	.050	19.2	-.070	.040	-.440	2.18	.070	.080	17.6	.070	.160	-.530	21.1	-.650	.090	70.6	.200	-.190	.200	.440	.010	1.000
IPC023SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-1.71	2.99	.330	.010	.000	-4.62	.080	2.82	-.150	.060	-.410	-.460	-.030	-.720	12.0	.050	.170	-.660	14.9	-.270	.080	31.1	.080	-.250	.350	.930	.150	.700
IPC017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-13S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-2.73	1.34	.820	.050	.050	-4.99	-.020	17.1	-.070	-.060	-.420	2.65	.190	-.980	11.2	.050	-.030	-.700	5.77	-.850	.010	27.2	.200	-.270	.460	.860	-.040	2.35
C101-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C101-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-1.93	-.990	1.55	.050	.050	-5.26	.000	13.3	-.100	-.030	-.590	.800	.410	-.560	11.5	.050	-.170	-.770	5.82	.790	-.010	8.43	.140	-.480	.500	1.01	.000	3.04
C101-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-3.38	-.590	-.050	.100	.140	-5.28	.030	20.1	.000	.100	-.540	.900	.340	-.490	23.3	.040	-.120	-.710	-14.6	-.330	.090	7.58	.170	-.860	.260	.560	-.010	1.87
IPC018SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-21S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	-2.79	.450	.170	.040	.100	-5.44	.010	14.6	-.070	-.060	-.520	-.300	.060	-.430	11.2	.090	-.070	-.580	9.77	.590	.080	5.87	.150	-.190	-.260	.770	.050	1.54
C101-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C101-31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	-2.47	-.130	.130	.050	.050	-5.81	.000	10.4	-.050	.040	-.560	3.16	.130	-.630	13.0	.000	-.080	-.760	4.02	.280	-.010	6.05	.130	-.040	.190	.670	-.030	2.32

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C010001			1	☒	unk	---
2	0	0	0	0	Unk	S2		ID8C010002			1	☒	unk	---
3	0	0	0	0	Unk	S5		ID8C010003			1	☒	unk	---
4	0	0	0	0	Unk	S8		ID8C010004			1	☒	unk	---
5	0	0	0	0	Unk	S11		ID8C010005			1	☒	unk	---
6	0	0	0	0	Unk	S17		ID8C010006			1	☒	unk	---
7	1	2	1	1	QC	ICV		ID8C010007			1	☒	ICV	None
8	2	2	2	1	QC	ICB		ID8C010008			1	☒	3XIDL	None
9	3	2	3	1	Unk	MRLC1001	Fe 0.03ppm	ID8C010009			1	☒	unk	---
10	4	2	4	1	Unk	MRLC1002	CAM	ID8C010010			1	☒	unk	---
11	5	2	5	1	QC	ICSA1		ID8C010011			1	☒	ICSA	None
12	6	2	6	1	QC	ICSAB1		ID8C010012			1	☒	ICSAB	None
13	7	2	7	1	QC	CCV1		ID8C010013			1	☒	CCV	None
14	8	2	8	1	QC	CCB1	Fe = 0.005522xMDL	ID8C010014			1	☒	3XIDL	None
15	9	2	9	1	QC	IPC015SB		ID8C010015			1	☒	CCB	None
16	10	2	10	1	QC	IPC015SL		ID8C010016			1	☒	LCS	None
17	11	2	11	1	QC	IPC015SC		ID8C010017			1	☒	LCS	None
18	12	2	12	1	Unk	C021-01A		ID8C010018			1	☒	unk	---
19	13	2	1	2	Unk	C021-01		ID8C010019			1	☒	unk	---
20	14	2	2	2	Unk	C021-01J		ID8C010020			1	☒	unk	---
21	15	2	3	2	Unk	C021-01M		ID8C010021			1	☒	unk	---
22	16	2	4	2	Unk	C021-01S		ID8C010022			1	☒	unk	---
23	17	2	5	2	Unk	C021-02		ID8C010023			1	☒	unk	---
24	18	2	6	2	Unk	C021-03		ID8C010024			1	☒	unk	---
25	19	2	7	2	QC	CCV2		ID8C010025			1	☒	CCV	None
26	20	2	8	2	QC	CCB2		ID8C010026			1	☒	3XIDL	None
27	21	2	9	2	Unk	C021-04		ID8C010027			1	☒	unk	---
28	22	2	10	2	Unk	C021-05		ID8C010028			1	☒	unk	---
29	23	2	11	2	Unk	C021-06		ID8C010029			1	☒	unk	---
30	24	2	12	2	Unk	C021-07		ID8C010030			1	☒	unk	---
31	25	2	1	3	Unk	C021-08		ID8C010031			1	☒	unk	---
32	26	2	2	3	Unk	C021-09		ID8C010032			1	☒	unk	---
33	28	2	4	3	Unk	C067-01		ID8C010033			1	☒	unk	---
34	29	2	5	3	Unk	C089-01		ID8C010034			1	☒	unk	---
35	30	2	6	3	Unk	C089-02		ID8C010035			1	☒	unk	---
36	31	2	7	3	QC	CCV3		ID8C010036			1	☒	CCV	None
37	32	2	8	3	QC	CCB3		ID8C010037			1	☒	3XIDL	None
38	33	2	9	3	QC	IPC010WB		ID8C010038			1	☒	CCB	None
39	34	2	10	3	QC	IPC010WL		ID8C010039			1	☒	LCS	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	35	2	11	3	QC	IPC010WC		ID8C010040			1	☒	LCS	None
41	36	2	12	3	Unk	C008-02A		ID8C010041			1	☒	unk	---
42	37	2	1	4	Unk	C008-02		ID8C010042			1	☒	unk	---
43	38	2	2	4	Unk	C008-02J		ID8C010043			1	☒	unk	---
44	39	2	3	4	Unk	C008-04		ID8C010044			1	☒	unk	---
45	40	2	4	4	Unk	C045-03		ID8C010045			1	☒	unk	---
46	41	2	5	4	Unk	C045-04		ID8C010046			1	☒	unk	---
47	42	2	6	4	Unk	C416-01		ID8C010047			1	☒	unk	---
48	43	2	7	4	QC	CCV4		ID8C010048			1	☒	CCV	None
49	44	2	8	4	QC	CCB4		ID8C010049			1	☒	3XIDL	None
50	27	2	3	3	QC	IPC016WB		ID8C010050			1	☒	CCB	None
51	102	3	6	4	QC	IPC016WL		ID8C010051			1	☒	LCS	None
52	103	3	7	4	QC	IPC016WC		ID8C010052			1	☒	LCS	None
53	104	3	8	4	Unk	C051-06A		ID8C010053			1	☒	unk	---
54	105	3	9	4	Unk	C051-06		ID8C010054			1	☒	unk	---
55	106	3	10	4	Unk	C051-06J		ID8C010055			1	☒	unk	---
56	107	3	11	4	Unk	C051-06M		ID8C010056			1	☒	unk	---
57	108	3	12	4	Unk	C051-06S		ID8C010057			1	☒	unk	---
58	109	3	1	5	Unk	C051-04		ID8C010058			1	☒	unk	---
59	110	3	2	5	Unk	C051-05		ID8C010059			1	☒	unk	---
60	111	3	3	5	QC	CCV5		ID8C010060			1	☒	CCV	None
61	112	3	4	5	QC	CCB5		ID8C010061			1	☒	3XIDL	None
62	113	3	5	5	Unk	C051-07		ID8C010062			1	☒	unk	---
63	114	3	6	5	Unk	C051-08		ID8C010063			1	☒	unk	---
64	115	3	7	5	Unk	C051-12		ID8C010064			1	☒	unk	---
65	116	3	8	5	Unk	C051-16		ID8C010065			1	☒	unk	---
66	117	3	9	5	Unk	C051-20		ID8C010066			1	☒	unk	---
67	118	3	10	5	Unk	C051-23		ID8C010067			1	☒	unk	---
68	119	3	11	5	Unk	C049-01		ID8C010068			1	☒	unk	---
69	120	3	12	5	Unk	C085-01		ID8C010069			1	☒	unk	---
70	121	4	1	1	Unk	C085-02		ID8C010070			1	☒	unk	---
71	122	4	2	1	Unk	C085-03		ID8C010071			1	☒	unk	---
72	123	4	3	1	QC	CCV6		ID8C010072			1	☒	CCV	None
73	124	4	4	1	QC	CCB6		ID8C010073			1	☒	3XIDL	None
74	125	4	5	1	Unk	C085-04		ID8C010074			1	☒	unk	---
75	126	4	6	1	Unk	C085-05		ID8C010075			1	☒	unk	---
76	127	4	7	1	Unk	C085-06		ID8C010076			1	☒	unk	---
77	128	4	8	1	Unk	C085-07		ID8C010077			1	☒	unk	---
78	129	4	9	1	Unk	C085-08	Nazlur	ID8C010078			1	☒	unk	---

7056

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	100	3	4	4	QC	ICSA2		ID8C010079			1	☒	ICSA	None
80	101	3	5	4	QC	ICSAB2		ID8C010080			1	☒	ICSAB	None
81	130	4	10	1	QC	CCV7		ID8C010081			1	☒	CCV	None
82	131	4	11	1	QC	CCB7	NA 02199	ID8C010082			1	☒	3XIDL	None
83	132	4	12	1	QC	IPC022SB		ID8C010083			1	☒	CCB	None
84	133	4	1	2	QC	IPC022SL		ID8C010084			1	☒	LCS	None
85	134	4	2	2	Unk	A271-01A		ID8C010085			1	☒	unk	---
86	135	4	3	2	Unk	A271-01		ID8C010086			1	☒	unk	---
87	136	4	4	2	Unk	A271-01J		ID8C010087			1	☒	unk	---
88	137	4	5	2	Unk	A271-02		ID8C010088			1	☒	unk	---
89	138	4	6	2	QC	CCV8		ID8C010089			1	☒	CCV	None
90	139	4	7	2	QC	CCB8		ID8C010090			1	☒	3XIDL	None
91	140	4	8	2	QC	IPC023SB		ID8C010091			1	☒	CCB	None
92	141	4	9	2	QC	IPC023SL		ID8C010092			1	☒	LCS	None
93	142	4	10	2	Unk	A271-01A		ID8C010093			1	☒	unk	---
94	143	4	11	2	Unk	A271-01		ID8C010094			1	☒	unk	---
95	144	4	12	2	Unk	A271-01J		ID8C010095			1	☒	unk	---
96	145	4	1	3	Unk	A271-02		ID8C010096			1	☒	unk	---
97	146	4	2	3	QC	CCV9		ID8C010097			1	☒	CCV	None
98	147	4	3	3	QC	CCB9		ID8C010098			1	☒	3XIDL	None
99	45	2	9	4	QC	IPC017SB		ID8C010099			1	☒	CCB	None
100	46	2	10	4	QC	IPC017SL		ID8C010100			1	☒	LCS	None
101	47	2	11	4	QC	IPC017SC		ID8C010101			1	☒	LCS	None
102	48	2	12	4	Unk	C101-13A		ID8C010102			1	☒	unk	---
103	49	2	1	5	Unk	C101-13		ID8C010103			1	☒	unk	---
104	50	2	2	5	Unk	C101-13J		ID8C010104			1	☒	unk	---
105	51	2	3	5	Unk	C101-13M		ID8C010105			1	☒	unk	---
106	52	2	4	5	Unk	C101-13S		ID8C010106			1	☒	unk	---
107	53	2	5	5	Unk	C101-01		ID8C010107			1	☒	unk	---
108	54	2	6	5	Unk	C101-02		ID8C010108			1	☒	unk	---
109	55	2	7	5	QC	CCV10		ID8C010109			1	☒	CCV	None
110	56	2	8	5	QC	CCB10		ID8C010110			1	☒	3XIDL	None
111	57	2	9	5	Unk	C101-03		ID8C010111			1	☒	unk	---
112	58	2	10	5	Unk	C101-04		ID8C010112			1	☒	unk	---
113	59	2	11	5	Unk	C101-05		ID8C010113			1	☒	unk	---
114	60	2	12	5	Unk	C101-06		ID8C010114			1	☒	unk	---
115	61	3	1	1	Unk	C101-07		ID8C010115			1	☒	unk	---
116	62	3	2	1	Unk	C101-08		ID8C010116			1	☒	unk	---
117	63	3	3	1	Unk	C101-09		ID8C010117			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
118	64	3	4	1	Unk	C101-10		ID8C010118			1	☒	unk	---
119	65	3	5	1	Unk	C101-11		ID8C010119			1	☒	unk	---
120	66	3	6	1	Unk	C101-12		ID8C010120			1	☒	unk	---
121	67	3	7	1	QC	CCV11		ID8C010121			1	☒	CCV	None
122	68	3	8	1	QC	CCB11		ID8C010122			1	☒	3XIDL	None
123	69	3	9	1	Unk	C101-14		ID8C010123			1	☒	unk	---
124	70	3	10	1	Unk	C101-15		ID8C010124			1	☒	unk	---
125	71	3	11	1	Unk	C101-16		ID8C010125			1	☒	unk	---
126	72	3	12	1	Unk	C101-17		ID8C010126			1	☒	unk	---
127	73	3	1	2	Unk	C101-18		ID8C010127			1	☒	unk	---
128	74	3	2	2	Unk	C101-19		ID8C010128			1	☒	unk	---
129	75	3	3	2	Unk	C101-20		ID8C010129			1	☒	unk	---
130	76	3	4	2	QC	CCV12		ID8C010130			1	☒	CCV	None
131	77	3	5	2	QC	CCB12		ID8C010131			1	☒	3XIDL	None
132	78	3	6	2	QC	IPC018SB		ID8C010132			1	☒	CCB	None
133	79	3	7	2	QC	IPC018SL		ID8C010133			1	☒	LCS	None
134	80	3	8	2	QC	IPC018SC		ID8C010134			1	☒	LCS	None
135	81	3	9	2	Unk	C101-21A		ID8C010135			1	☒	unk	---
136	82	3	10	2	Unk	C101-21		ID8C010136			1	☒	unk	---
137	83	3	11	2	Unk	C101-21J		ID8C010137			1	☒	unk	---
138	84	3	12	2	Unk	C101-21M		ID8C010138			1	☒	unk	---
139	85	3	1	3	Unk	C101-21S		ID8C010139			1	☒	unk	---
140	86	3	2	3	Unk	C101-22		ID8C010140			1	☒	unk	---
141	87	3	3	3	Unk	C101-23		ID8C010141			1	☒	unk	---
142	88	3	4	3	QC	CCV13		ID8C010142			1	☒	CCV	None
143	89	3	5	3	QC	CCB13		ID8C010143			1	☒	3XIDL	None
144	90	3	6	3	Unk	C101-24		ID8C010144			1	☒	unk	---
145	91	3	7	3	Unk	C101-25		ID8C010145			1	☒	unk	---
146	92	3	8	3	Unk	C101-26		ID8C010146			1	☒	unk	---
147	93	3	9	3	Unk	C101-27		ID8C010147			1	☒	unk	---
148	94	3	10	3	Unk	C101-28		ID8C010148			1	☒	unk	---
149	95	3	11	3	Unk	C101-29		ID8C010149			1	☒	unk	---
150	96	3	12	3	Unk	C101-30		ID8C010150			1	☒	unk	---
151	97	3	1	4	Unk	C101-31		ID8C010151			1	☒	unk	---
152	98	3	2	4	QC	CCV14		ID8C010152			1	☒	CCV	None
153	99	3	3	4	QC	CCB14		ID8C010153			1	☒	3XIDL	None

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ID8C010 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00103	.00003	-.00001	.00016	-.00001	.00071	-.00068	.00033	-.00002	-.00079	Blank
2	S2				.62362	.83283	.10004	2.8103		.13230	.77931	S2
3	S5		.00497	.00261								S5
4	S8								1.6850			S8
5	S11											S11
6	S17	.20279										S17
7	ICV	4.8171	.51566	.52490	.49031	.49829	.48137	.50606	49.919	.49050	.49136	ICV
8	ICB	.00307	.00022	.00131*	.00013	.00010	-.00108	-.00003	.10132*	-.00005*	.00004	ICB
9	MRLC1001	.00129	-.00120	-.00008	-.00008	-.00004	-.00144	-.00004	.00005	-.00015	.00007	MRLC1001
10	MRLC1002	.00491	.00837	.01129	.00999	.01033	.00841	.01025	.01721	.01010	.01015	MRLC1002
11	ICSA1	464.80	.00306	.00217	.00069	-.00003	.00366	-.00335	453.36	-.00063	.00014	ICSA1
12	ICSAB1	461.69	1.0938	1.0710	.46841	.48080	.49538	.98100	448.54	.45361	.47163	ICSAB1
13	CCV1	4.8326	.51699	.52395	.48769	.49746	.47878	.50616	49.921	.48776	.49503	CCV1
14	CCB1	.00706	.00042*	.00064*	.00002	.00006	-.00194	.00001	.02861*	-.00008*	-.00002	CCB1
15	IPC015S8	.00317	-.00213	.00141	.00016	-.00002	-.00251	.00001	.02230	-.00009	.00006	IPC015SB
16	IPC015SL	4.7121	2.6163	.51367	.46833	.50109	.45392	.51419	50.009	.47715	.50526	IPC015SL
17	IPC015SC	4.7988	2.6381	.52457	.48056	.51522	.45475	.52174	50.080	.48599	.51679	IPC015SC
18	C021-01A	120.43	2.6877	.54998	.81371	.50941	.48206	.50603	80.321	.52691	.58616	C021-01A
19	C021-01	112.46	.00812	.03332	.34245	.01035	.00812	-.00493	29.808	.06186	.08148	C021-01
20	C021-01J	22.897	.00111	.00789	.07053	.00210	-.00060	-.00158	6.1914	.01256	.01631	C021-01J
21	C021-01M	110.39	1.4925	.49427	.72403	.45688	.40354	.45325	74.028	.47811	.52687	C021-01M
22	C021-01S	110.69	1.4955	.49058	.73194	.46178	.40346	.45380	74.084	.47842	.52637	C021-01S
23	C021-02	104.30	.00548	.03542	.63020	.01102	.01023	-.00404	27.708	.05953	.07402	C021-02
24	C021-03	74.085	.00176	.03141	.21049	.00660	.00411	-.00334	22.452	.04169	.05892	C021-03
25	CCV2	4.8368	.52521	.52646	.49145	.50092	.48089	.51134	50.743	.49268	.50580	CCV2
26	CCB2	-.00075	.00039*	.00040*	.00006	.00005	-.00285	-.00002	.01740	-.00011*	-.00006	CCB2
27	C021-04	58.634	-.00176	.02539	.29819	.00330	.00259	-.00288	21.237	.03684	.04671	C021-04
28	C021-05	92.320	-.00217	.02391	.38723	.00681	.00618	-.00442	31.381	.04487	.06787	C021-05
29	C021-06	115.87	-.00257	.02810	.47506	.00792	.00719	-.00499	39.215	.05639	.08731	C021-06
30	C021-07	96.991	.00008	.03335	.38837	.00762	.00770	-.00419	30.934	.05411	.06961	C021-07
31	C021-08	99.662	-.00510	.02924	.82927	.00608	.01051	-.00404	26.550	.04944	.06631	C021-08
32	C021-09	74.812	-.00220	.02845	.35546	.00487	.00433	-.00372	22.202	.03442	.05487	C021-09
33	C067-01	201.31	.00212	.01038	1.2420	.26849	.11293	.00754	48.213	.16698	.00878	C067-01
34	C089-01	102.11	-.01144	.02110	.88809	.00394	.03105	-.00350	27.130	.14263	.06478	C089-01
35	C089-02	81.912	-.01110	.01877	.92231	.00268	.00511	-.00474	16.839	.22515	.04480	C089-02
36	CCV3	4.8142	.52384	.53011	.48794	.49737	.48234	.51153	50.796	.49637	.50274	CCV3
37	CCB3	-.00130	-.00094*	.00094*	.00016	.00016*	-.00375	.00003	.01932	.00001	.00003	CCB3
38	IPC010WB	.00579	-.00297	.00195	.00003	-.00005	-.00323	.00005	.02637	-.00007	.00007	IPC010WB
39	IPC010WL	5.0006	2.7212	.54950	.47273	.50529	.51390	.51306	50.972	.48841	.49734	IPC010WL
40	IPC010WC	5.1349	2.7303	.56104	.48569	.51975	.50863	.52760	51.250	.50208	.51240	IPC010WC
41	C008-02A	5.0963	2.5466	.54726	.97212	.48831	.59248	.50579	158.12	.47750	.49169	C008-02A
42	C008-02	.01607	.03529	.00101	.51536	.00003	.07555	.00000	112.34	.00148	.00001	C008-02
43	C008-02J	.00431	.01167	.00053	.10491	-.00002	.01109	.00003	22.862	.00033	.00011	C008-02J
44	C008-04	.01078	-.00078	.00430	.21226	.00000	.13890	.00010	96.101	.00058	-.00002	C008-04
45	C045-03	.01403	.00060	.00357	.28136	-.00002	.09734	-.00004	111.33	.00993	.00044	C045-03
46	C045-04	.01675	-.00141	.00426	.28430	-.00002	.10133	-.00002	110.99	.01488	.00034	C045-04
47	C416-01	.55343	.00782	.00203	.03372	-.00004	.05371	.00372	24.859	.01761	.00209	C416-01
48	CCV4	4.7966	.52139	.52996	.48637	.49624	.48148	.51267	50.634	.49587	.50264	CCV4
49	CCB4	-.00252	-.00006	.00079*	.00001	.00012*	-.00402	.00004	.00637	-.00010*	.00003	CCB4
50	IPC016WB	.01355	-.00165	.00152	.00015	-.00003	-.00182	.00008	.03837	-.00009	.00012	IPC016WB
51	IPC016WL	4.9861	2.7175	.54527	.46876	.50440	.51223	.50925	51.478	.48634	.49158	IPC016WL
52	IPC016WC	5.0147	2.7716	.54403	.47236	.50833	.52131	.51022	51.606	.48630	.49299	IPC016WC
53	C051-06A	6.5395	2.7729	.56043	.52515	.48971	.75079	.50755	88.818	.47693	.49671	C051-06A
54	C051-06	1.3948	.02390	.00159	.06475	.00015	.23624	.00020	39.170	.00217	.00396	C051-06

55	C051-06J	.26197	.00820	.00085	.01317	.00004	.04042	-.00001	7.9435	.00037	.00080	C051-06J
56	C051-06M	6.5620	2.8579	.57453	.53985	.50734	.76055	.51899	91.269	.48776	.50653	C051-06M
57	C051-06S	6.5362	2.8846	.57882	.53515	.50249	.76244	.52066	91.278	.48942	.51035	C051-06S
58	C051-04	.10653	.01777	.00450	.03579	.00009	.03273	.00031	33.375	.00094	.00030	C051-04
59	C051-05	.10897	.00536	.00456	.03641	.00003	.03266	.00031	33.757	.00107	.00026	C051-05
60	CCV5	4.7428	.51954	.52772	.48049	.49290	.47786	.50754	50.549	.49617	.49562	CCV5
61	CCB5	-.00336	.00288*	.00023*	-.00006	.00002	-.00440	.00000	.00230	-.00007*	.00014*	CCB5
62	C051-07	.11969	.00076	.00029	.02655	.00002	.18031	.00007	59.584	.20775	-.00001	C051-07
63	C051-08	.19226	-.00122	.00038	.04845	.00006	.18709	.00011	26.195	.00104	.01731	C051-08
64	C051-12	.00135	-.00211	.00109	.00004	-.00003	.02182	.00004	.05647	.00011	.00006	C051-12
65	C051-16	.01686	-.00189	.00154	.00548	-.00002	.14548	.00016	14.314	.00050	-.00011	C051-16
66	C051-20	.01561	-.00210	.00050	.00934	.00003	.14623	.00023	36.801	.00095	-.00024	C051-20
67	C051-23	.20400	-.00179	.00227	.01503	.00002	.13670	.00044	21.619	.00106	.00036	C051-23
68	C049-01	.02097	-.00249	.00066	.00713	-.00005	.17603	.00020	22.244	.00089	-.00008	C049-01
69	C085-01	.00855	-.00268	.00329	.07322	-.00012	.99263	-.00008	172.37	.00038	.00003	C085-01
70	C085-02	.00358	-.00395	.00563	.16637	-.00015	1.0703	.00031	89.989	.00040	.00099	C085-02
71	C085-03	.00237	-.00501	.01938	.03622	-.00028	2.8369	.00006	53.400	.00034	-.00037	C085-03
72	CCV6	4.7428	.51791	.52947	.47880	.49102	.47882	.50621	50.565	.49602	.49170	CCV6
73	CCB6	-.00309	.00012	.00125*	-.00002	-.00001	-.00415	.00001	.00131	-.00001	.00004	CCB6
74	C085-04	.00900	-.00429	.02882	.02485	-.00016	1.8539	.00007	69.138	.00034	-.00014	C085-04
75	C085-05	.01265	-.00312	.00287	.18218	-.00008	.64779	-.00010	73.476	.00058	-.00007	C085-05
76	C085-06	.01122	-.00294	.00426	.18178	-.00008	.65282	-.00007	73.660	.00069	-.00006	C085-06
77	C085-07	.00845	-.00152	.00675	.07079	-.00008	.78452	.00001	81.889	.00060	-.00020	C085-07
78	C085-08	.00841	-.00347	.03130	.19019	-.00045	4.2543	-.00014	246.29	.00037	-.00030	C085-08
79	ICSA2	455.12	.00333	.00099	.00061	-.00005	.00277	-.00491	458.68	-.00028	.00001	ICSA2
80	ICSAB2	455.18	1.0900	1.0797	.45756	.46888	.49208	.97627	455.17	.46098	.47051	ICSAB2
81	CCV7	4.7501	.51663	.53050	.47785	.48584	.47923	.50566	50.471	.50255	.48920	CCV7
82	CCB7	.00035	.00024	.00029*	.00008	.00011	-.00437	.00008	.01593	-.00011*	.00013*	CCB7
83	IPC022SB	.00187	-.00155	.00001	.00003	.00005	-.00450	.00002	.03723	-.00007	.00004	IPC022SB
84	IPC022SL	4.9131	2.6907	.54503	.46990	.50736	.49558	.51568	51.522	.49648	.49880	IPC022SL
85	A271-01A	105.20	3.7179	2.8451	2.5108	2.2144	1.3751	2.1862	144.59	1.4395	1.9370	A271-01A
86	A271-01	98.699	1.0553	2.2919	2.0769	1.7577	.87704	1.6926	97.695	.98953	1.4597	A271-01
87	A271-01J	19.483	.21277	.45213	.41557	.35168	.16954	.34079	20.016	.20340	.29777	A271-01J
88	A271-02	113.66	1.4036	1.3316	2.6206	.55309	.88376	1.8259	149.85	1.3844	.53578	A271-02
89	CCV8	4.7033	.51341	.52397	.47475	.48154	.47475	.49973	49.816	.49686	.48319	CCV8
90	CCB8	-.00068	.00207*	.00085*	.00007	.00014*	-.00468	.00005	.01920	-.00007*	.00004	CCB8
91	IPC023SB	.02253	-.00022	.00130	.00139	.00024	-.00412	.00053	.21272*	.00043	.00038	IPC023SB
92	IPC023SL	5.2353	2.8456	.58025	.49414	.53761	.53073	.53209	52.566	.51843	.50860	IPC023SL
93	A271-01A	87.450	4.0208	2.9678	2.5989	2.3200	1.5888	2.2406	146.58	1.4640	1.9549	A271-01A
94	A271-01	82.921	1.3007	2.4294	2.1678	1.8586	1.0778	1.7674	101.97	1.0121	1.5016	A271-01
95	A271-01J	15.897	.25432	.46668	.43584	.36987	.20101	.35066	20.576	.20666	.30126	A271-01J
96	A271-02	95.628	1.7743	1.4301	5.2778	.57478	1.0556	1.8950	157.05	1.4186	.54969	A271-02
97	CCV9	4.6605	.51146	.52219	.47223	.47823	.47224	.49926	49.726	.49521	.48294	CCV9
98	CCB9	-.00171	.00299*	.00033*	.00001	.00000	-.00462	.00008	.00282	-.00015*	.00006	CCB9
99	IPC017SB	-.00129	-.00145	.00110	.00027	-.00006	-.00482	.00006	-.00559	.00001	.00006	IPC017SB
100	IPC017SL	4.5916	2.6616	.51673	.46016	.48810	.46458	.50695	50.319	.48492	.49337	IPC017SL
101	IPC017SC	4.5668	2.6385	.51749	.45716	.48692	.46137	.50700	50.604	.48933	.49157	IPC017SC
102	C101-13A	7.3781	2.7480	.62304	.49849	.48178	.49069	.93406	510.64	.52409	.49829	C101-13A
103	C101-13	2.3593	.03330	.07755	.03200	.00137	.00175	.43605	476.41	.03970	.00965	C101-13
104	C101-13J	.46754	.00738	.01482	.00634	.00026	-.00345	.08673	102.58	.00824	.00195	C101-13J
105	C101-13M	8.4153	2.0897	.54894	.45352	.42999	.42063	.94188	490.23	.49838	.44632	C101-13M
106	C101-13S	8.2079	2.1318	.54491	.45645	.42867	.42071	.99003	479.63	.50009	.44919	C101-13S
107	C101-01	43.920	.02063	.03486	.11137	.00980	.00597	.32785	139.90	.06281	.03717	C101-01
108	C101-02	27.316	.01263	.03965	.29666	.00235	.00272	.45541	34.657	.08236	.02486	C101-02
109	CCV10	4.7181	.51567	.53017	.48113	.48725	.47820	.50566	50.359	.50227	.48756	CCV10
110	CCB10	-.00273	.00134*	.00082*	.00005	.00005	-.00499	-.00002	.01708	-.00007*	-.00006	CCB10
111	C101-03	6.0541	.01612	.04010	.04240	.00169	.00080	.39163	112.85	.06051	.00743	C101-03

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
112	C101-04	10.071	.00592	.04460	.04587	.00178	.00640	.24653	.86493	.04868	.00157	C101-04
113	C101-05	4.8336	.01594	.04807	.04243	.00156	.00445	.52528	229.18	.03428	.01029	C101-05
114	C101-06	40.448	.01789	.09380	.19346	.00760	.00856	.75218	249.82	.24318	.03556	C101-06
115	C101-07	1.9839	.00929	.03797	.02294	.00065	-.00410	.30779	218.44	.02545	.00741	C101-07
116	C101-08	1.2747	.01401	.02598	.03227	.00034	-.00654	.88261	108.09	.01640	.00925	C101-08
117	C101-09	3.4486	.01390	.03934	.03902	.00067	-.00268	.40258	238.53	.02748	.01106	C101-09
118	C101-10	3.7541	.01855	.04723	.04573	.00069	-.00115	.99707	340.73	.03013	.00987	C101-10
119	C101-11	3.0428	.01057	.03285	.03480	.00084	-.00317	.36244	240.40	.02818	.00870	C101-11
120	C101-12	15.300	.02549	.06361	.25881	.00186	.00786	.28195	7.1938	.05071	.04785	C101-12
121	CCV11	4.6861	.51574	.53395	.47883	.48382	.47974	.50444	50.381	.50641	.48913	CCV11
122	CCB11	-.00193	-.00099*	.00155*	.00005	.00005	-.00526	.00000	.01329	-.00010*	-.00003	CCB11
123	C101-14	3.5277	.01181	.05961	.01838	.00177	.00393	.45729	585.12	.06393	.00965	C101-14
124	C101-15	2.4856	.00901	.05917	.03757	.00121	.00101	.46344	571.22	.03985	.02483	C101-15
125	C101-16	1.9131	.01199	.05795	.01644	.00096	-.00196	.60839	471.04	.04235	.01038	C101-16
126	C101-17	2.2154	.01280	.03776	.01102	.00110	-.00169	.79376	337.81	.03565	.00687	C101-17
127	C101-18	2.3511	.00870	.03289	.03627	.00087	.00022	.37952	311.91	.03298	.00976	C101-18
128	C101-19	4.0195	.01150	.03704	.07330	.00125	.00500	.52987	399.15	.03871	.01037	C101-19
129	C101-20	2.5704	.00903	.05766	.01754	.00181	.00109	.27102	110.14	.03682	.00998	C101-20
130	CCV12	4.6942	.51069	.53070	.47509	.47935	.47979	.50416	50.397	.50634	.48604	CCV12
131	CCB12	-.00338	-.00059*	-.00005	.00010	.00014*	-.00528	.00003	.02009	.00000	.00010*	CCB12
132	IPC018SB	-.00260	-.00238	.00176	.00022	.00004	-.00535	.00007	.00407	.00004	.00016	IPC018SB
133	IPC018SL	4.5648	2.6693	.52138	.45536	.48067	.46562	.50627	50.270	.48934	.49012	IPC018SL
134	IPC018SC	4.5510	2.6309	.51795	.45525	.48331	.46017	.50477	50.457	.49029	.48764	IPC018SC
135	C101-21A	7.5524	2.7460	.59872	.48598	.47546	.48782	1.1805	698.47	.54209	.49138	C101-21A
136	C101-21	2.5132	.03056	.05641	.01407	.00149	.00365	.69228	666.28	.06224	.00683	C101-21
137	C101-21J	.48870	.00668	.01045	.00279	.00032	-.00388	.13788	142.26	.01304	.00125	C101-21J
138	C101-21M	6.8780	2.2451	.55327	.42772	.42791	.43506	1.1221	546.24	.50191	.44441	C101-21M
139	C101-21S	6.7111	2.2270	.53693	.42190	.42189	.42953	1.1451	525.80	.49057	.43821	C101-21S
140	C101-22	7.1061	.02442	.04464	.11032	.00069	-.00331	.51747	124.56	.03056	.00973	C101-22
141	C101-23	4.4742	.01678	.04191	.05248	.00101	-.00121	.40824	321.26	.04312	.01423	C101-23
142	CCV13	4.6826	.51363	.52950	.47604	.47974	.47924	.50346	50.324	.50578	.48439	CCV13
143	CCB13	-.00279	.00045*	.00017	.00004	.00010	-.00544	.00001	.01457	-.00007*	-.00006	CCB13
144	C101-24	2.5883	.02224	.06168	.02582	.00084	-.00136	1.3211	295.98	.02948	.01722	C101-24
145	C101-25	2.3965	.01974	.07959	.02437	.00097	.00001	.92770	154.85	.03372	.03230	C101-25
146	C101-26	2.5139	.01383	.06100	.02361	.00095	-.00061	.18890	250.40	.04479	.00549	C101-26
147	C101-27	2.6729	.01335	.03074	.03283	.00107	-.00067	.68714	112.51	.03302	.00678	C101-27
148	C101-28	6.1007	.01176	.07629	.03915	.00287	.00481	.38664	311.74	.06007	.01300	C101-28
149	C101-29	5.3774	.01363	.03694	.03978	.00188	.00154	.50476	240.16	.04611	.01015	C101-29
150	C101-30	5.1998	.01090	.04133	.04489	.00205	.00321	.57785	502.59	.04112	.01200	C101-30
151	C101-31	28.314	.01887	.15092	.16598	.01139	.06758	1.0366	137.50	.37798	.02050	C101-31
152	CCV14	4.7034	.51292	.53297	.48071	.48315	.47969	.50531	50.300	.50732	.48517	CCV14
153	CCB14	-.00247	-.00013	.00013	.00005	.00005	-.00581	.00000	.01044	-.00005*	.00004	CCB14

ID8C010 Section 1 of 3

ID8C010 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00105	-.00001	-.00006	.00001	-.00001	.00002	.00035	.00006	-.00014	.00001	Blank
2	S2	.27632		.21084			.10269		.77794			S2
3	S5				.12696			.79637			.00293	S5
4	S8					.20457				.69139		S8
5	S11		.04679									S11
6	S17											S17
7	ICV	.49267	4.8016	.48463	.51514	49.693	.48064	.51504	.49279	49.450	.52694	ICV
8	ICB	-.00001	.01612*	.00064	-.00072*	.01608	.00014	.00014	-.00057*	.00869	.00050	ICB
9	MRLC1001	-.00018	.03036	.00007	-.00016	.00646	-.00012	-.00021	-.00066	-.01971	.00061	MRLC1001
10	MRLC1002	.00991	.00030	.01020	.00989	.00752	.01017	.00969	.00973	-.02196	.01002	MRLC1002
11	ICSA1	.00199	172.56	-.00260	.00425	510.22	-.00080	-.00323	.00081	.05214	.00058	ICSA1
12	ICSAB1	.52701	172.40	.89342	2.1910	504.90	.44254	1.0195	.92870	78.406	1.0837	ICSAB1
13	CCV1	.48778	4.7518	.48375	.51399	49.486	.47714	.51621	.49236	49.246	.52406	CCV1
14	CCB1	-.00021	.00550*	.00068	-.00011	.03349	.00012	.00010	-.00060*	.00078	.00003	CCB1
15	IPC015S8	-.00014	.00302	.00055	-.00061	.01305	-.00017	-.00014	-.00030	-.00071	.00042	IPC015SB
16	IPC015SL	.49093	4.7720	.48501	-.00043*	49.491	.47478	.51533	.50096	48.562	.50690	IPC015SL
17	IPC015SC	.49765	4.8582	.49159	-.00031*	50.007	.48300	.51556	.50776	48.720	.51553	IPC015SC
18	C021-01A	.55631	159.09	.49995	.32005	196.58	6.4714	.52379	.59261	60.480	.50945	C021-01A
19	C021-01	.05159	155.56	.02443	.31281	143.90	6.0407	.00079	.10134	9.8577	.00283	C021-01
20	C021-01J	.01019	32.529	.00494	.06091	29.256	1.2503	-.00017	.02001	1.9592	-.00038	C021-01J
21	C021-01M	.49932	144.89	.45285	.29663	181.65	6.3414	.44569	.53654	51.024	.43283	C021-01M
22	C021-01S	.49801	144.63	.45478	.29750	183.42	6.3624	.44585	.53727	51.268	.43017	C021-01S
23	C021-02	.03191	126.21	.02631	.30611	128.28	6.1268	.00115	.08440	25.030	.00136	C021-02
24	C021-03	.03056	95.336	.01766	.19506	95.114	4.1383	.00177	.07895	7.3113	.00055	C021-03
25	CCV2	.49039	4.7804	.48951	.51695	50.078	.48223	.52243	.49622	49.810	.52970	CCV2
26	CCB2	-.00033	.00207*	.00016	-.00017	.01426	-.00003	.00003	-.00059*	.01098	-.00158	CC82
27	C021-04	.03454	73.557	.02145	.13660	67.667	3.8814	.00068	.05742	7.5039	-.00035	C021-04
28	C021-05	.02350	132.59	.01782	.23252	108.17	3.6864	-.00038	.08776	17.096	.00177	C021-05
29	C021-06	.02759	159.34	.02328	.30265	142.80	4.5055	-.00059	.11245	19.571	.00010	C021-06
30	C021-07	.02392	130.32	.02318	.26681	123.10	4.4029	.00137	.09354	12.588	.00354	C021-07
31	C021-08	.02037	126.10	.01483	.22009	119.00	5.1847	-.00027	.08237	32.071	-.00036	C021-08
32	C021-09	.03763	97.079	.01714	.18400	89.897	3.1497	-.00021	.06798	13.355	.00047	C021-09
33	C067-01	.69974	74.308	.11455	1.1929	1728.9*	26.165	.00871	.11000	319.04	.00172	C067-01
34	C089-01	.08941	154.54	.08309	.07774	36.703	3.2696	.00550	.06898	34.123	.00309	C089-01
35	C089-02	.03316	152.63	.03266	.06679	30.295	2.6500	.01063	.02550	37.040	.00197	C089-02
36	CCV3	.49428	4.8334	.48858	.51932	49.752	.48179	.52107	.49658	50.025	.52852	CCV3
37	CCB3	-.00044	.00170*	.00013	-.00059*	.03749	.00026	-.00002	-.00062*	.01925	.00017	CCB3
38	IPC010WB	-.00017	.00191	.00031	-.00116	.01346	.00017	-.00035	-.00038	-.00594	-.00139	IPC010WB
39	IPC010WL	.49993	4.9914	.49045	-.00065*	50.722	.48238	.49079	.49391	50.246	.54608	IPC010WL
40	IPC010WC	.51281	5.1104	.50419	-.00036*	50.915	.49750	.49369	.51010	50.441	.55358	IPC010WC
41	C008-02A	.50141	4.8625	.48409	.03257	77.926	.48982	.50113	.48602	56.288	.53397	C008-02A
42	C008-02	.00207	.01965	.00282	.03203	27.729	.02068	.00095	.00187	4.9891	-.00055	C008-02
43	C008-02J	.00018	.00421	.00066	.00547	5.6048	.00419	-.00002	-.00009	.99311	.00104	C008-02J
44	C008-04	.00094	.00181	.00272	.06127	39.883	.03436	.00142	.00145	11.505	-.00029	C008-04
45	C045-03	.00160	.29045	.00406	.06252	75.616	.01167	.00201	.03038	9.8590	.00005	C045-03
46	C045-04	.00133	.32871	.00439	.06291	76.257	.01166	.00198	.03059	9.9494	-.00027	C045-04
47	C416-01	1.0995	.92321	.00913	.00646	12.810	.01815	.11280	.02795	6.2515	.00430	C416-01
48	CCV4	.49522	4.8283	.49015	.52373	49.376	.48362	.52163	.49793	50.184	.52978	CCV4
49	CCB4	-.00043	.00293*	-.00013	-.00012	.01253	.00005	-.00007	-.00070*	.00415	-.00049	CCB4
50	IPC016WB	-.00017	.00275	.00109	-.00043	.01787	.00002	-.00026	-.00025	-.01833	-.00039	IPC016WB
51	IPC016WL	.49732	4.9800	.48583	.52215	50.956	.48153	.49400	.49082	50.611	.53864	IPC016WL
52	IPC016WC	.49609	4.9707	.48830	.52351	51.766	.48292	.50108	.49100	50.670	.53693	IPC016WC
53	C051-06A	.50603	5.9983	.48415	.56364	100.69	.64581	.49705	.49152	53.644	.56232	C051-06A
54	C051-06	.00419	1.2202	.00649	.00674	50.532	.18092	.00098	.00656	1.5782	.00846	C051-06

55	C051-06J	.00056	.24542	.00175	.00077	10.148	.03687	-.00009	.00083	.36064	.00183	C051-06J
56	C051-06M	.51410	6.0839	.49318	.54167	104.10	.65540	.50878	.50238	55.561	.57003	C051-06M
57	C051-06S	.51767	6.1126	.49451	.54332	102.94	.65484	.51174	.50508	55.605	.57087	C051-06S
58	C051-04	.00858	.17693	.00343	.01399	8.5957	.01880	.00667	.00524	7.2880	-.00035	C051-04
59	C051-05	.00892	.18347	.00314	.01426	8.6647	.01967	.00651	.00542	7.3621	.00010	C051-05
60	CCV5	.48771	4.8400	.48384	.51462	49.482	.47857	.51448	.49118	49.620	.52698	CCV5
61	CCB5	-.00037	.00003	.00018	-.00027	.00409	-.00005	-.00003	-.00066*	.03229	.00088	CCB5
62	C051-07	.00130	.03448	.00402	.00945	63.770	.12875	-.00046	.00223	3.5954	.00587	C051-07
63	C051-08	.00592	.09923	.00447	.00682	25.698	.69872	-.00006	.01693	4.8202	.00290	C051-08
64	C051-12	-.00019	.00238	.00030	-.00066	.03572	-.00002	-.00033	-.00036	.03812	-.00156	C051-12
65	C051-16	.00057	.03514	.00343	.01020	20.213	.00202	.00094	.00303	3.2431	.01009	C051-16
66	C051-20	.00107	.05161	.00406	.01603	57.210	.00164	.00040	.01160	6.9201	.01583	C051-20
67	C051-23	.01403	.25495	.00421	.00894	21.633	.01477	.00593	.00224	2.7991	.00416	C051-23
68	C049-01	.00429	.09717	.00806	.01839	11.452	.00165	.00224	.00077	8.3164	.00079	C049-01
69	C085-01	.00043	.79761	.00275	.04178	47.279	.46297	.01697	.00188	13.102	.00003	C085-01
70	C085-02	.00314	.01302	.00203	.04634	41.067	.04334	.06239	.01566	32.591	.00325	C085-02
71	C085-03	.00240	.14331	.00241	.05634	83.726	.16485	.17830	.00374	59.519	.00209	C085-03
72	CCV6	.49101	4.8521	.48178	.51813	49.266	.47944	.51074	.49055	49.810	.52676	CCV6
73	CCB6	-.00045	.00024	.00013	-.00050	.00352	-.00007	.00005	-.00064*	.05527	-.00024	CCB6
74	C085-04	.00162	.66040	.00295	.04065	78.953	.08077	.10219	.00137	47.086	-.00020	C085-04
75	C085-05	.00057	1.2916	.00280	.02373	36.788	.57711	.00409	.00018	20.210	-.00008	C085-05
76	C085-06	.00068	1.3179	.00228	.02408	36.909	.57562	.00406	.00035	20.151	-.00115	C085-06
77	C085-07	.00367	1.3270	.00255	.03277	67.462	.04447	.02287	.00099	30.725	.00014	C085-07
78	C085-08	.00122	9.9867	.00356	.14003	471.23	.60782	.02437	.00301	169.44	-.00097	C085-08
79	ICSA2	.00185	175.47	-.00262	.00529	502.86	-.00086	-.00338	.00111	.63987	-.00077	ICSA2
80	ICSAB2	.52541	175.52	.89097	2.2156	494.96	.43783	1.0082	.92416	79.242	1.0780	ICSAB2
81	CCV7	.49081	4.9197	.48203	.52261	48.581	.47413	.50857	.48966	50.305	.52660	CCV7
82	CCB7	-.00039	.00144	-.00001	-.00063*	.01811	.00006	.00012	-.00076*	.08614	.00009	CCB7
83	IPC022SB	-.00044	.00315	.00008	-.00014	.01687	-.00011	-.00023	-.00058	.07381	-.00013	IPC022SB
84	IPC022SL	.50348	5.0762	.49086	-.00003*	50.149	.47984	.49944	.49783	51.034	.53224	IPC022SL
85	A271-01A	1.8528	115.73	1.7029	.07106	79.782	3.4010	1.3207	2.1928	82.666	1.9480	A271-01A
86	A271-01	1.3525	113.17	1.2450	.06986	30.887	2.9920	.82591	1.7283	31.377	1.4195	A271-01
87	A271-01J	.26524	23.301	.25533	.01298	6.2634	.61744	.16469	.35270	6.2230	.27689	A271-01J
88	A271-02	.97240	126.74	2.5841	.07549	43.929	3.1478	1.7612	2.8691	22.397	1.1887	A271-02
89	CCV8	.48721	4.8661	.47584	.51941	48.175	.46568	.50319	.48464	50.039	.52223	CCV8
90	CCB8	-.00044	.00218*	.00007	.00008	.01759	.00007	.00016	-.00053*	.02111	-.00065	CCB8
91	IPC023SB	.00001	.03359	.00167	.00006	.02276	.00086	.00022	.00041	.05745	-.00002	IPC023SB
92	IPC023SL	.52972	5.3409	.50732	.00008*	51.478	.49792	.49924	.51235	52.950	.57572	IPC023SL
93	A271-01A	1.9195	106.64	1.7522	.06176	79.610	3.3727	1.3266	2.2834	84.329	2.1247	A271-01A
94	A271-01	1.4279	105.01	1.3047	.06221	30.710	2.9906	.84501	1.8407	32.659	1.5951	A271-01
95	A271-01J	.27638	21.349	.26490	.01127	6.2614	.61323	.16732	.37122	6.4309	.30074	A271-01J
96	A271-02	1.0098	126.66	2.7189	.06724	43.401	3.1961	1.8490	2.9384	21.657	1.2913	A271-02
97	CCV9	.48281	4.8561	.47671	.51785	47.839	.46579	.50275	.48435	50.102	.51747	CCV9
98	CCB9	-.00041	-.00046	-.00003	-.00072*	.01200	.00005	.00017	-.00066*	.01488	-.00027	CCB9
99	IPC017SB	-.00049	-.00004	.00052	-.00086	.00388	-.00002	-.00028	-.00049	-.00293	-.00033	IPC017SB
100	IPC017SL	.48763	4.8844	.47794	-.00007*	48.686	.46285	.51740	.49333	50.392	.50106	IPC017SL
101	IPC017SC	.48987	4.9451	.47708	-.00042*	48.758	.46273	.51233	.49343	50.438	.50057	IPC017SC
102	C101-13A	.75879	69.978	1.5225	.00771	201.24	1.8319	.52527	.54212	56.212	.53842	C101-13A
103	C101-13	.23412	66.063	1.0777	.00668	153.43	1.4036	-.00197	.05430	2.2348	.01125	C101-13
104	C101-13J	.04483	13.691	.22093	.00118	30.765	.28889	-.00138	.01024	.41400	.00127	C101-13J
105	C101-13M	.66847	64.095	1.4185	.01384	202.63	1.7228	.45614	.48316	50.058	.47137	C101-13M
106	C101-13S	.66181	59.144	1.3758	.01414	193.84	1.6760	.45836	.48500	49.913	.47219	C101-13S
107	C101-01	.68179	45.861	2.0984	.01763	62.529	1.3436	-.00123	.14787	4.1257	.00470	C101-01
108	C101-02	.07905	54.938	1.3736	.01625	14.458	1.0702	-.00010	.05403	3.4107	.00451	C101-02
109	CCV10	.49094	4.9361	.48198	.52745	48.672	.46811	.50765	.49083	51.005	.52408	CCV10
110	CCB10	-.00042	.00265*	.00019	-.00098*	.01120	.00005	-.00003	-.00070*	.00577	-.00085	CCB10
111	C101-03	.18057	31.278	.46722	.00669	8.5228	.18984	-.00332	.04128	3.7585	.00559	C101-03

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	C101-04	.02783	27.209	.94608	.01132	1.3824	.01929	.00501	.01250	5.2539	.00874	C101-04
113	C101-05	.38568	40.201	.44731	.00625	103.68	1.0247	-.00506	.03991	2.7707	.00854	C101-05
114	C101-06	.65718	132.13	.65457	.02494	110.07	1.9133	-.00032	.10109	5.6695	.01019	C101-06
115	C101-07	.37749	52.872	.45570	.00348	44.613	.62851	-.00177	.03826	1.1383	.00766	C101-07
116	C101-08	.82184	21.505	.25885	.00183	15.455	.31127	-.00594	.02610	.69166	.00703	C101-08
117	C101-09	.48240	25.260	4.3394	.00404	14.798	.66974	-.00428	.05298	1.1005	.00764	C101-09
118	C101-10	.35323	37.229	6.9001	.00503	18.611	.76972	-.00431	.06103	1.2354	.01046	C101-10
119	C101-11	.30651	24.199	4.4561	.00557	21.850	.46382	-.00311	.04843	1.3738	.00700	C101-11
120	C101-12	1.3733	51.917	54.015	.00945	2.5096	9.6893	-.00374	.08881	2.1728	.01340	C101-12
121	CCV11	.49418	4.9962	.48247	.52944	48.245	.46912	.50729	.49064	51.199	.52662	CCV11
122	CCB11	-.00059	.00080	.00041	-.00056*	.01147	.00005	-.00017	-.00077*	.00582	.00079	CCB11
123	C101-14	.23469	67.885	1.3891	.01186	257.76	1.7740	-.00517	.04621	2.6319	.00950	C101-14
124	C101-15	.13038	49.331	.62752	.00746	166.21	2.2732	.01952	.06507	1.9353	.00725	C101-15
125	C101-16	.21229	46.986	.63418	.00625	195.37	1.4189	-.00464	.05255	1.5001	.00710	C101-16
126	C101-17	.15657	33.640	.36560	.00502	131.49	1.0175	-.00539	.03450	1.6798	.00492	C101-17
127	C101-18	.10899	32.538	.37620	.00399	110.56	1.2632	-.00425	.03573	1.5155	.00491	C101-18
128	C101-19	.15451	34.362	1.3353	.00719	104.76	1.2208	-.00513	.04053	2.7515	.00552	C101-19
129	C101-20	.09863	44.613	.26493	.00713	46.372	.43003	-.00050	.05066	2.0803	.00801	C101-20
130	CCV12	.49478	4.9900	.48066	.53113	47.709	.46799	.50622	.48986	51.346	.52500	CCV12
131	CCB12	-.00054	.00090	.00034	-.00049	.02328	.00004	-.00012	-.00071*	-.01461	-.00033	CCB12
132	IPC018SB	-.00054	.00210	.00071	-.00165	.00508	.00000	-.00037	-.00054	-.01461	-.00043	IPC018SB
133	IPC018SL	.49256	4.9485	.47629	-.00079*	47.849	.45933	.51508	.49371	50.828	.50557	IPC018SL
134	IPC018SC	.49023	4.9656	.47522	-.00072*	48.403	.45953	.50924	.49118	50.778	.50185	IPC018SC
135	C101-21A	.64884	53.978	1.2403	.01040	315.56	2.3445	.52255	.53421	56.978	.53839	C101-21A
136	C101-21	.11932	50.121	.79362	.00964	268.85	1.9409	-.00500	.04916	2.2551	.00966	C101-21
137	C101-21J	.02233	10.466	.16295	.00084	53.357	.40213	-.00223	.00930	.41413	.00116	C101-21J
138	C101-21M	.60299	56.176	.77481	.00996	248.76	1.9257	.45449	.49143	50.624	.47928	C101-21M
139	C101-21S	.59057	52.962	.75762	.00903	232.90	1.8378	.44881	.48055	49.994	.47206	C101-21S
140	C101-22	.17551	34.085	5.8492	.00557	1.1977	.43108	-.00423	.05474	1.4235	.00200	C101-22
141	C101-23	.29468	36.489	2.3055	.00724	64.708	1.3018	-.00478	.05958	1.6703	.00441	C101-23
142	CCV13	.49592	4.9988	.48052	.53235	47.610	.46826	.50438	.49024	51.580	.52710	CCV13
143	CCB13	-.00052	-.00030	.00006	-.00043	.01122	.00009	-.00007	-.00058*	.00977	.00059	CCB13
144	C101-24	.29399	34.621	4.3615	.00497	58.278	1.0291	-.00742	.10719	1.2647	.00250	C101-24
145	C101-25	.17723	40.946	2.0993	.00396	30.096	1.0063	-.00556	.08576	1.6096	.00936	C101-25
146	C101-26	.35297	38.797	1.8680	.00589	37.353	.70754	-.00519	.07367	1.9539	.00435	C101-26
147	C101-27	.26151	32.711	3.4957	.00436	55.940	.47739	-.00290	.03572	1.9397	.00973	C101-27
148	C101-28	.63087	54.597	.97777	.01288	114.48	1.0450	.00035	.06058	4.1390	.00827	C101-28
149	C101-29	.40913	41.735	2.3645	.00829	118.87	1.0362	-.00429	.04636	3.0101	.00742	C101-29
150	C101-30	.42006	42.126	4.3133	.01080	173.15	1.4235	-.00437	.04934	3.7654	.00524	C101-30
151	C101-31	.15945	104.39	21.485	.05646	35.791	.49326	-.00086	.10005	19.593	.01217	C101-31
152	CCV14	.49444	4.9983	.48174	.53431	48.101	.46726	.50661	.49095	51.770	.52658	CCV14
153	CCB14	-.00056	.00316*	.00013	-.00063*	.01300	.00000	-.00008	-.00076*	.00402	.00028	CCB14

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00010	.00091	-.00010	-.00017	.00008	.00002	-.00016	.00086	Blank
2	S2	.19636		.73282	.13296	.12992	.08418	.13064		S2
3	S5								.65930	S5
4	S8		2.2469							S8
5	S11									S11
6	S17									S17
7	ICV	.50519	49.949	.48791	.47157	.50119	.50131	.49814	.51188	ICV
8	ICB	.00003	.01594	.00021	-.00025*	.00013	.00062	-.00003	.00956*	ICB
9	MRLC1001	.00005	-.01031	.00005	-.00033	.00017	.00010	.00009	.00057	MRLC1001
10	MRLC1002	.01049	-.01147	.00801	.00982	.01017	.01064	.01038	.01219	MRLC1002
11	ICSA1	.00065	.09061	.00698	-.00624	.00205	-.00180	.00422	.00897	ICSA1
12	ICSAB1	1.1139	77.872	.48643	.86607	.95163	.96095	.47669	.99101	ICSAB1
13	CCV1	.50170	49.747	.48379	.47351	.50443	.50018	.49838	.51193	CCV1
14	CCB1	.00006*	.01356	.00020	-.00006	.00027	.00057	.00010	.00263*	CCB1
15	IPC015SB	.00004	-.00922	.00014	-.00001	.00459	-.00005	.00002	.00390	IPC015SB
16	IPC015SL	.49203	48.983	.46137	.47318	.52623	.50211	.50393	.52869	IPC015SL
17	IPC015SC	.49988	49.007	.46185	.48382	.53360	.50572	.51103	.53815	IPC015SC
18	C021-01A	.50396	52.451	.54300	.46547	.52895	1.6275	.73278	1.1527	C021-01A
19	C021-01	-.00482	1.7098	.06963	-.00261	.02505	1.1223	.23525	.63158	C021-01
20	C021-01J	-.00102	.32891	.01417	-.00037	.00498	.23272	.04805	.12752	C021-01J
21	C021-01M	.45403	46.627	.48187	.41567	.43165	1.2281	.65740	1.0764	C021-01M
22	C021-01S	.45387	46.748	.48412	.41516	.43015	1.2407	.65592	1.0694	C021-01S
23	C021-02	-.00594	1.2764	.08097	.00122	.02582	2.0388	.19825	.54962	C021-02
24	C021-03	-.00498	1.0348	.05267	-.00173	.02150	1.4229	.18297	.47690	C021-03
25	CCV2	.50482	50.308	.48677	.47970	.51448	.50433	.50712	.52650	CCV2
26	CCB2	.00006*	.00520	.00015	-.00043*	.00036	.00061	.00009	.00111	CCB2
27	C021-04	-.00454	1.9009	.04619	-.00150	.02906	1.4064	.14693	.36499	C021-04
28	C021-05	-.00741	1.6310	.09851	-.00311	.03222	2.4696	.24078	.38407	C021-05
29	C021-06	-.00857	2.0363	.10562	-.00269	.02964	2.6659	.30381	.48028	C021-06
30	C021-07	-.00389	.99364	.09665	-.00188	.03034	.92110	.18883	.51609	C021-07
31	C021-08	-.00877	2.3415	.07564	.00061	.02542	3.2622	.26111	.46763	C021-08
32	C021-09	-.00603	2.1673	.05905	-.00289	.02447	1.7712	.21063	.29633	C021-09
33	C067-01	.00641	69.609	1.2993	.02868	.03875	4.5934	.11451	6.1355	C067-01
34	C089-01	-.01999	3.0280	.18550	.00397	.03653	9.5666	.30120	.44027	C089-01
35	C089-02	-.02099	2.4518	.11601	.00290	.03399	10.104	.28188	.38853	C089-02
36	CCV3	.50870	50.416	.48893	.47887	.51309	.50324	.51144	.52146	CCV3
37	CCB3	.00002	.00628	.00028	-.00025*	.00035	.00178	.00005	.00000	CCB3
38	IPC010WB	.00006	-.00265	.00025	-.00006	-.00017	.00071	.00003	.00400	IPC010WB
39	IPC010WL	.52927	50.256	.46991	.48792	.50067	.50739	.51496	.52915	IPC010WL
40	IPC010WC	.54131	50.473	.47174	.50302	.50210	.50815	.52982	.54500	IPC010WC
41	C008-02A	.53436	117.15	.85282	.47270	.49393	.50481	.50661	.53271	C008-02A
42	C008-02	-.00001	69.075	.38848	.00022	.00511	.00181	.00027	.01751	C008-02
43	C008-02J	-.00005	13.567	.07856	-.00036	.00130	.00123	.00004	.00419	C008-02J
44	C008-04	-.00005	61.713	.36488	.00028	-.00004	.00119	.00100	.00961	C008-04
45	C045-03	-.00011	65.369	.70300	-.00059	-.00008	.00102	.00219	.02120	C045-03
46	C045-04	-.00016	65.644	.70677	-.00017	.00013	.00109	.00203	.02417	C045-04
47	C416-01	.00009	8.7536	.07802	-.00348	.00737	.01120	.00033	10.287	C416-01
48	CCV4	.50895	50.570	.49206	.47897	.51320	.49703	.51022	.52267	CCV4
49	CCB4	.00003	.01580	.00018	-.00027*	.00014	.00095	.00008	.00006	CCB4
50	IPC016WB	.00002	.00081	.00050	-.00002	-.00050	.0000B	.00007	.00757	IPC016WB
51	IPC016WL	.52536	50.485	.47453	.48380	.50236	.50893	.51152	.52852	IPC016WL
52	IPC016WC	.52542	50.514	.48063	.48374	.50782	.51971	.51137	.53063	IPC016WC
53	C051-06A	.54241	303.79	.93214	.46315	.50155	.52075	.51520	.53344	C051-06A
54	C051-06	-.00003	263.86	.47282	.00030	.00157	.02428	.00560	.01197	C051-06

55	C051-06J	-.00003	54.515	.09627	-.00005	.00039	.00530	.00105	.00342	C051-06J
56	C051-06M	.54843	308.34	.94766	.46930	.51483	.53714	.52345	.54941	C051-06M
57	C051-06S	.54979	303.64	.94758	.47319	.51690	.53272	.52823	.55226	C051-06S
58	C051-04	-.00002	22.580	.21395	.00082	.00048	.00504	.00335	.63151	C051-04
59	C051-05	.00000	23.090	.21693	-.00006	-.00032	.00433	.00340	.64128	C051-05
60	CCV5	.50562	49.674	.48309	.47216	.50601	.49269	.50575	.51597	CCV5
61	CCB5	.00002	.04697	.00012	-.00044*	.00035	.00063	.00006	.00026	CCB5
62	C051-07	-.00008	280.00	.80962	.00034	-.00077	.00209	.00072	.00232	C051-07
63	C051-08	-.00007	178.01	.31631	.00067	-.00043	.00216	.00195	.00374	C051-08
64	C051-12	-.00005	.48631	.00041	-.00004	-.00011	.00047	.00001	.00381	C051-12
65	C051-16	.00008	186.13	.18062	.00005	-.00049	.00058	.00461	.00398	C051-16
66	C051-20	.00006	300.55	.44700	.00008	-.00022	.00072	.00336	.00830	C051-20
67	C051-23	.00007	168.33	.32095	-.00047	-.00029	.00222	.00555	.10417	C051-23
68	C049-01	-.00017	51.282	.07077	-.00018	-.00055	.00053	.02421	.00537	C049-01
69	C085-01	-.00010	136.98	1.2629	.00045	-.00022	.00034	-.00011	.00785	C085-01
70	C085-02	.00000	194.18	.82175	.00020	-.00017	.00098	.00164	.00627	C085-02
71	C085-03	-.00006	660.51	.66710	.00010	-.00006	.00061	.00327	.00578	C085-03
72	CCV6	.50623	49.323	.48437	.46984	.50265	.49190	.50828	.51633	CCV6
73	CCB6	.00001	.12424	.00006	-.00006	.00014	.00053	-.00010	.00030	CCB6
74	C085-04	-.00006	365.01	.67133	-.00006	.00012	.00125	-.00027	.02216	C085-04
75	C085-05	.00002	166.60	.67730	.00101	-.00022	.00124	.00174	.00511	C085-05
76	C085-06	-.00010	167.97	.67105	.00079	-.00036	.00145	.00162	.00828	C085-06
77	C085-07	-.00003	407.15	.78659	.00005	-.00027	.00058	.00174	.00415	C085-07
78	C085-08	.00000	1637.2*	3.2938	.00059	-.00019	-.00002	.00065	.00570	C085-08
79	ICSA2	.00056	1.6092	.00706	-.00636	.00206	-.00172	.00426	.00458	ICSA2
80	ICSAB2	1.1182	75.292	.48636	.86395	.95240	.93426	.48428	1.0007	ICSAB2
81	CCV7	.50925	49.255	.48757	.46808	.50131	.48680	.50898	.51814	CCV7
82	CCB7	-.00003	.21994*	.00021	-.00011	.00006	.00067	.00003	.00017	CC87
83	IPC022SB	.00002	.16932*	.00015	.00003	.00347	.00070	-.00006	.00175	IPC022SB
84	IPC022SL	.52583	50.399	.47363	.48239	.50416	.50172	.52031	.53730	IPC022SL
85	A271-01A	1.2467	70.221	3.2245	1.4301	1.9177	1.2872	1.9114	4.4492	A271-01A
86	A271-01	.72373	20.066	2.8409	.99041	1.4263	.80837	1.4088	3.9401	A271-01
87	A271-01J	.14200	4.0441	.57003	.20727	.28983	.16271	.28704	.80319	A271-01J
88	A271-02	.53680	57.165	1.0664	.76532	.86087	.96870	.90675	2.2824	A271-02
89	CCV8	.50496	49.935	.48157	.46473	.49523	.48297	.50177	.51039	CCV8
90	CCB8	.00009*	.07058	.00020	-.00019*	.00020	.00044	.00001	.00100	CCB8
91	IPC023SB	.00026	.10848*	.00063	-.00018	.03639*	.00107	.00018	.01482*	IPC023SB
92	IPC023SL	.55674	52.553	.49081	.49937	.54356	.51580	.53614	.55683	IPC023SL
93	A271-01A	1.3014	72.792	3.4589	1.5471	2.0057	1.7064	1.9458	4.6386	A271-01A
94	A271-01	.77077	21.798	3.0776	1.1164	1.5389	1.2332	1.4676	4.2170	A271-01
95	A271-01J	.14943	4.3187	.61542	.22764	.30669	.25157	.29341	.84476	A271-01J
96	A271-02	.56918	58.936	1.1213	.83572	.92379	1.5680	.92635	2.3638	A271-02
97	CCV9	.50166	50.198	.48021	.46447	.49468	.47999	.50267	.50993	CCV9
98	CCB9	.00008*	.03107	.00008	-.00025*	.00035	.00093	.00015	.00070	CCB9
99	IPC017SB	.00016	-.00427	.00014	.00080	.00191	.00003	-.00008	.00091	IPC017SB
100	IPC017SL	.49397	50.334	.47630	.46484	.54589	.50224	.50746	.52825	IPC017SL
101	IPC017SC	.49575	50.388	.47199	.46522	.53689	.49658	.51070	.52922	IPC017SC
102	C101-13A	.54094	54.385	.62234	.45459	.52579	.51209	.55315	69.726*	C101-13A
103	C101-13	.00006	.71459	.14474	-.00115	.03228	.01829	.03886	70.223*	C101-13
104	C101-13J	-.00003	.15111	.02906	-.00007	.00666	.00479	.00762	16.775	C101-13J
105	C101-13M	.47424	47.607	.55855	.40249	.44853	.43544	.50548	70.226*	C101-13M
106	C101-13S	.47291	47.524	.55591	.40474	.45452	.43754	.50693	74.207*	C101-13S
107	C101-01	-.00088	.35965	.06055	-.00002	.02587	.33302	.05808	55.765*	C101-01
108	C101-02	-.00126	.31436	.03084	-.00020	.02224	.50404	.08881	48.402*	C101-02
109	CCV10	.50906	51.052	.48843	.46910	.49935	.48835	.51008	.51865	CCV10
110	CCB10	.00001	.02723	.00020	-.00027*	.00046	.00086	-.00004	.00235*	CCB10
111	C101-03	.00020	.37167	.06061	-.00120	.02558	.03175	.02943	85.774*	C101-03

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
112	C101-04	.00020	.38677	.01375	-.00024	.02392	.11303	.04359	28.192	C101-04
113	C101-05	-.00020	.48548	.07822	-.00005	.00190	.03856	.03674	101.77*	C101-05
114	C101-06	-.00098	.54188	.10836	-.00156	.02119	.31828	.17124	96.516*	C101-06
115	C101-07	.00008	.46802	.09008	-.00180	.02900	.02197	.02143	54.104*	C101-07
116	C101-08	.00000	.41694	.03293	-.00099	.01927	.01139	.01335	94.666*	C101-08
117	C101-09	-.00003	.44505	.09232	-.00053	.02327	.04403	.01843	82.280*	C101-09
118	C101-10	.00022	.34266	.15599	-.00056	.02233	.04677	.02242	108.33*	C101-10
119	C101-11	-.00003	.45457	.09811	-.00138	.02756	.02575	.01984	75.465*	C101-11
120	C101-12	.00190	.37029	.02851	.01024	.03422	.15389	.06412	141.13*	C101-12
121	CCV11	.51273	51.315	.49008	.46993	.50088	.48499	.51371	.52077	CCV11
122	CCB11	-.00001	.00843	.00014	-.00048*	.00050	.00101	.00000	.00304*	CCB11
123	C101-14	-.00037	.93922	.19257	-.00103	.03317	.01855	.05227	74.226*	C101-14
124	C101-15	.00003	.69317	.18942	.00087	.02443	.01790	.03362	72.426*	C101-15
125	C101-16	-.00006	.87902	.15111	-.00049	.03428	.02163	.03492	83.835*	C101-16
126	C101-17	-.00008	.56602	.09964	-.00088	.01781	.01729	.03104	76.180*	C101-17
127	C101-18	-.00032	.54149	.10483	-.00074	.01394	.04791	.02879	62.046*	C101-18
128	C101-19	-.00015	.59011	.14317	-.00077	.02485	.10752	.03620	79.443*	C101-19
129	C101-20	.00030	.56190	.04164	-.00101	.02428	.02493	.02655	54.866*	C101-20
130	CCV12	.51274	51.372	.49026	.46897	.49895	.47955	.51287	.51739	CCV12
131	CCB12	.00009*	.00758	.00017	-.00086*	.00026	.00056	-.00001	.00187	CCB12
132	IPC018SB	.00008	-.01744	.00008	.00021	.00206	.00023	-.00004	.00207	IPC018SB
133	IPC018SL	.49695	50.805	.47758	.46532	.54268	.49386	.51051	.52702	IPC018SL
134	IPC018SC	.49605	50.687	.47183	.46184	.53191	.49091	.50935	.52754	IPC018SC
135	C101-21A	.55011	55.283	.69130	.44957	.51020	.51305	.55968	87.428*	C101-21A
136	C101-21	-.00035	.95632	.21580	-.00235	.02392	.02342	.05076	88.602*	C101-21
137	C101-21J	-.00013	.17675	.04305	-.00012	.00540	.00614	.00980	22.112	C101-21J
138	C101-21M	.49023	49.075	.58845	.40799	.45578	.43466	.51194	86.597*	C101-21M
139	C101-21S	.48505	48.504	.57643	.40260	.45463	.43211	.50509	88.392*	C101-21S
140	C101-22	-.00007	.45799	.09535	-.00115	.01558	.08747	.02680	62.994*	C101-22
141	C101-23	-.00027	.74754	.10840	-.00072	.01769	.05887	.04084	72.947*	C101-23
142	CCV13	.51249	51.573	.49191	.46722	.49808	.48110	.51317	.51786	CCV13
143	CCB13	.00008*	.00587	.00015	-.00019*	-.00026	.00077	.00005	.00154	CCB13
144	C101-24	.00007	.64468	.09866	-.00046	.02319	.03768	.02617	139.03*	C101-24
145	C101-25	.00009	.49248	.06154	-.00038	.02533	.03090	.02932	119.48*	C101-25
146	C101-26	-.00016	.46145	.07457	-.00090	.03639	.02585	.03669	80.355*	C101-26
147	C101-27	-.00013	.63615	.03991	-.00046	.02494	.02208	.02632	82.328*	C101-27
148	C101-28	-.00005	.58052	.11227	-.00055	.03849	.04799	.04936	72.054*	C101-28
149	C101-29	-.00011	.58542	.08091	-.00099	.01812	.04015	.04230	78.576*	C101-29
150	C101-30	-.00024	.65730	.19225	-.00063	.02020	.01970	.03598	78.606*	C101-30
151	C101-31	-.00038	1.4713	.13147	-.00194	.03376	.08295	.20241	100.31*	C101-31
152	CCV14	.51275	51.742	.49150	.46772	.49855	.48367	.51242	.51889	CCV14
153	CCB14	-.00001	.00605	.00013	-.00004	.00019	.00067	-.00003	.00232	CCB14

ID8C010 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

SOP ☐ EMAX-3005 Rev. No.4 ☐ EMAX-3010 Rev. No. 3 ☑ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-085

Matrix: SOIL Start Date: 3-9-10 Time: 9:30 Temp: 90°C Ending Date: 3-9-10 Time: 13:30 Temp.: 90°C

BATCH: TPC 017-S

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPC 017-SB					—	N/A	100		
02	-SL					—		100		
03	-SL					—		100		
04	C101-01					1.002		100		
05	-02					1.003		100		
06	-03					1.000		100		
07	-04					1.001		100		
08	-05					1.001		100		
09	-06					1.002		100		
10	-07					1.000		100		
11	-08					1.003		100		
12	-09					1.000		100		
13	-10					1.001		100		
14	-11					1.002		100		
15	-12					1.003		100		
16	-13					1.002		100		
17	-13M					1.003		100		
18	-13S					1.003		100		
19	~~-12~~ 19 mc 3/9/10					1.001		100		
20	~~-13~~ 20					1.002		100		
21	-14					1.000		100		
22	-15					1.003		100		
23	-16					1.002		100		
24	-17					1.003		100		
25	-18					1.002		100		
26										
27		3-9-10 mc								

Standards	ID	Amount Added (ml)
LCS -1	SM1A-11-141	0.5
LCS -2	SM1A-11-142	0.5
LCS -3	SM1A-11-143	1.0
MS		

Reagent	Lot# / ID	Amount Added (ml)
HNO_3	SW1A-04-145	10.0
HCl	SW1A-04-125	10.0
H_2O_2	SW1A-04-092	10.0
HNO3 (1:1)	SM5B-02-112	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: mc Standard Added By: mc

Witnessed By: TH Extracts Rcvd. By: TH 3/9/10

Checked By: TH

Date Disposed: Disposed by:

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

SOP ☐ EMAX-3005 Rev. No.4 ☐ EMAX-3010 Rev. No. 3 ☑ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-085

Matrix: SOIL Start Date: 3-9-10 Time: 9:45 Temp: 90 °C Ending Date: 3-9-10 Time: 13:45 Temp.: 90 °C

BATCH: IP0018-S

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g / ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IP0018-SB					—	N/A	100		
02	-SL					—		100		
03	-SC					—		100		
04	C101-21					1.001		100		
05	-21M					1.002		100		
06	-21S					1.002		100		
07	-22					1.000		100		
08	-23					1.003		100		
09	-24					1.001		100		
10	-25					1.002		100		
11	-26					1.000		100		
12	-27					1.001		100		
13	-28					1.003		100		
14	-29					1.002		100		
15	-30					1.001		100		
16	-31					1.002		100		
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

3-9-10 MC

Standards	ID	Amount Added (ml)
LCS -1	SMIA-11-141	0.5
LCS -2	SMIA-11-142	0.5
LCS -3	SMIA-11-143	1.0
MS		

Reagent	Lot# / ID	Amount Added (ml)
HNO_3	SWIA-04-145	10.0
HCl	SWIA-04-125	10.0
H_2O_2	SWIA-04-092	10.0
HNO3 (1:1)	SMSB-02114	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: TH Extracts Rcvd. By: TH 3/9/10

Checked By:

Date Disposed: Disposed by:

TABLE OF CONTENTS

CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **10K360**

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GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7051 7052 – 7092
WET	**	8000 –
OTHERS	**	

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-07-2010
EMAX Batch No.: 10K360

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 11/30/10.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB231-01-01	K360-01	11/20/10	SOIL	CADMIUM
CB231-01-02	K360-02	11/20/10	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-02-01	K360-03	11/20/10	SOIL	CADMIUM
CB231-02-02	K360-04	11/20/10	SOIL	CADMIUM
CP094-01-01	K360-05	11/20/10	SOIL	CADMIUM
CP094-01-02	K360-06	11/20/10	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

for

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

10K360

CH_1002_

Chain of Custody Record

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client CH2M HILL, Inc.	**Project Manager** John Ynfante			**Date** 29-Nov-10	**Chain of Custody Number** 1 of 1
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401			
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**		
Project Name Tar Creek OU4	**Carrier/Waybill Number** Fed Ex 7941 5971 8866	**CH2M HILL Project Number:** 395950.CV.01			
Samplers: Various CH2M HILL personnel					

			Container					Analysis							
Sample I.D. No. and Description	Date	Time	Size	Type	No.	Preservative	Matrix	Pb (sieved)	Zn	admium only					Comments
CB231-01-01	November 20, 2010	8:38	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
CB231-01-02	November 20, 2010	8:48	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X					Sieve Lead Sample
CB231-02-01	November 20, 2010	9:34	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
CB231-02-02	November 20, 2010	9:44	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
CP094-01-01	November 20, 2010	16:15	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
CP094-01-02	November 20, 2010	16:20	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					

1 2 3 4 5 6

Turnaround Time

7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T- 3.4°C

1. Relinquished By Richard J Trevino	**Date:** November 29, 2010	**Time:** 17:00	**1. Received By:** Federal Express	**Date:**	**Time:**
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:** 11/30/10	0930
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:**	

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

1001

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 10K860
☐ EMAX Courier		Recepient J. LUNA
☐ Client Delivery		Date 11-30-10
☑ Third Party FEDEX	794159718866	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 1 3.4 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling _____ Date 11/30/10

SRF _____ Date 11/30/10

PM LP for Le Date 11/30/10

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	*Analysis is not indicated in COC*	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: Origin ID: NQIA (281) 721-8538
Richard Trevino
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Ship Date: 29NOV10
ActWgt: 40.0 LB
CAD: 1303944/WBUS0200
Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

Ref # 395950.CV.01/AAB00101711
Invoice #
PO #
Dept #

10K360

SHIP TO: (310) 618-8889 BILL SENDER

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

TRK# 0201 7941 5971 8866

TUE - 30 NOV A1
PRIORITY OVERNIGHT

90501
CA-US
LAX

A7 AVXA

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 10K360

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 10K360

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of six (6) soil samples were received on 11/30/10 for Metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPL009SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10K360
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL009SB	1	NA	12/04/1006:26	12/03/1012:00	ID8L005176	ID8L005174	IPL009S	Method Blank
LCS1S	IPL009SL	1	NA	12/04/1006:31	12/03/1012:00	ID8L005177	ID8L005174	IPL009S	Lab Control Sample (LCS)
LCD1S	IPL009SC	1	NA	12/04/1006:36	12/03/1012:00	ID8L005178	ID8L005174	IPL009S	LCS Duplicate
SN0228AS	L034-01A	0.979	16.4	12/04/1006:41	12/03/1012:00	ID8L005179	ID8L005174	IPL009S	Analytical Spike Sample
SN0228	L034-01	0.979	16.4	12/04/1006:46	12/03/1012:00	ID8L005180	ID8L005174	IPL009S	Field Sample
SN0228DL	L034-01J	4.90	16.4	12/04/1006:51	12/03/1012:00	ID8L005181	ID8L005174	IPL009S	Diluted Sample
CB231-01-02	K360-02	0.977	13.6	12/04/1008:33	12/03/1012:D0	ID8L005199	ID8L005196	IPL009S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/20/10 08:48
Project	: TAR CREEK OU4	Date Received:	11/30/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	CB231-01-02	Date Analyzed:	12/04/10 08:33
Lab Samp ID:	K360-02	Dilution Factor:	0.977
Lab File ID:	ID8L005199	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	13.6
Calib. Ref.:	ID8L005196	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	18.7	1.13	0.113
Zinc	2810	1.13	0.565

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/03/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	MBLK1S	Date Analyzed:	12/04/10 06:26
Lab Samp ID:	IPL009SB	Dilution Factor:	1
Lab File ID:	ID8L005176	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	NA
Calib. Ref.:	ID8L005174	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100
Zinc	0.897J	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL009SB	IPL009SL	IPL009SC		
LAB FILE ID:	ID8L005176	ID8L005177	ID8L005178		
DATIME EXTRCTD:	12/03/1012:00	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/04/1006:26	12/04/1006:31	12/04/1006:36	DATE RECEIVED:	12/03/10
PREP. BATCH:	IPL009S	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	53.7	107	50	54	108	1	80-120	20
Zinc	.897J	50	56	110	50	56.2	111	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.4
DILUTION FACTOR:	0.979	4.90		
SAMPLE ID:	SN0228	SN0228DL		
EMAX SAMP ID:	L034-01	L034-01J		
LAB FILE ID:	ID8L005180	ID8L005181		
DATE EXTRACTED:	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	12/01/10 11:15
DATE ANALYZED:	12/04/1006:46	12/04/1006:51	DATE RECEIVED:	12/02/10
PREP. BATCH:	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10
Zinc	20.6	19.8	4	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.4
DILTN FACTR:	0.979	0.979		
SAMPLE ID:	SN022B			
CONTROL NO.:	L034-01	L034-01A		
LAB FILE ID:	ID8L005180	ID8L005179		
DATIME EXTRCTD:	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	12/01/10 11:15
DATIME ANALYZD:	12/04/1006:46	12/04/1006:41	DATE RECEIVED:	12/02/10
PREP. BATCH:	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	58.6	61.4	105	75-125
Zinc	20.6	58.6	84.7	110	75-125

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10K360
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL009SB	1	NA	12/04/1006:26	12/03/1012:00	ID8L005176	ID8L005174	IPL009S	Method Blank
LCS1S	IPL009SL	1	NA	12/04/1006:31	12/03/1012:00	ID8L005177	ID8L005174	IPL009S	Lab Control Sample (LCS)
LCD1S	IPL009SC	1	NA	12/04/1006:36	12/03/1012:00	ID8L005178	ID8L005174	IPL009S	LCS Duplicate
SN0228AS	L034-01A	0.979	16.4	12/04/1006:41	12/03/1012:00	ID8L005179	ID8L005174	IPL009S	Analytical Spike Sample
SN0228	L034-01	0.979	16.4	12/04/1006:46	12/03/1012:00	ID8L005180	ID8L005174	IPL009S	Field Sample
SN0228DL	L034-01J	4.90	16.4	12/04/1006:51	12/03/1012:00	ID8L005181	ID8L005174	IPL009S	Diluted Sample
CB231-01-01	K360-01	0.999	16.3	12/04/1008:28	12/03/1012:00	ID8L005198	ID8L005196	IPL009S	Field Sample
CB231-02-01	K360-03	0.997	16.2	12/04/1008:38	12/03/1012:00	ID8L005200	ID8L005196	IPL009S	Field Sample
CB231-02-02	K360-04	0.972	13.9	12/04/1008:43	12/03/1012:00	ID8L005201	ID8L005196	IPL009S	Field Sample
CP094-01-01	K360-05	0.977	21.8	12/04/1008:48	12/03/1012:00	ID8L005202	ID8L005196	IPL009S	Field Sample
CP094-01-02	K360-06	0.979	15.9	12/04/1008:53	12/03/1012:00	ID8L005203	ID8L005196	IPL009S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/20/10 08:38
Project	: TAR CREEK OU4	Date Received:	11/30/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	CB231-01-01	Date Analyzed:	12/04/10 08:28
Lab Samp ID:	K360-01	Dilution Factor:	0.999
Lab File ID:	ID8L005198	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	16.3
Calib. Ref.:	ID8L005196	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	33.8	1.19	0.119

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/20/10 09:34
Project	: TAR CREEK OU4	Date Received:	11/30/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	CB231-02-01	Date Analyzed:	12/04/10 08:38
Lab Samp ID:	K360-03	Dilution Factor:	0.997
Lab File ID:	1D8L005200	Matrix :	SOIL
Ext Btch ID:	1PL009S	% Moisture :	16.2
Calib. Ref.:	1D8L005196	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.666J	1.19	0.119

METHOD 3050B/601DB
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/20/10 09:44
Project	: TAR CREEK OU4	Date Received:	11/30/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	CB231-02-02	Date Analyzed:	12/04/10 08:43
Lab Samp ID:	K360-04	Dilution Factor:	0.972
Lab File ID:	ID8L005201	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	13.9
Calib. Ref.:	ID8L005196	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.13	0.113

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/20/10 16:15
Project	: TAR CREEK OU4	Date Received:	11/30/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	CP094-01-01	Date Analyzed:	12/04/10 08:48
Lab Samp ID:	K360-05	Dilution Factor:	0.977
Lab File ID:	ID8L005202	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	21.8
Calib. Ref.:	ID8L005196	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.54	1.25	0.125

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/20/10 16:20
Project	: TAR CREEK OU4	Date Received:	11/30/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	CP094-01-02	Date Analyzed:	12/04/10 08:53
Lab Samp ID:	K360-06	Dilution Factor:	0.979
Lab File ID:	ID8L005203	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	15.9
Calib. Ref.:	ID8L005196	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.522J	1.16	0.116

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/03/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	MBLK1S	Date Analyzed:	12/04/10 06:26
Lab Samp ID:	IPL009SB	Dilution Factor:	1
Lab File ID:	ID8L005176	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	NA
Calib. Ref.:	ID8L005174	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10K360
METHOD: METHOD 3050B/6D10B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL009SB	IPL009SL	IPL009SC		
LAB FILE ID:	ID8L005176	ID8L005177	ID8L005178		
DATIME EXTRCTD:	12/03/1012:00	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/04/1006:26	12/04/1006:31	12/04/1006:36	DATE RECEIVED:	12/03/10
PREP. BATCH:	IPL009S	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	53.7	107	50	54	108	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.4
DILUTION FACTOR:	0.979	4.90		
SAMPLE ID:	SN0228	SN0228DL		
EMAX SAMP ID:	L034-01	L034-01J		
LAB FILE ID:	ID8L005180	ID8L005181		
DATE EXTRACTED:	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	12/01/10 11:15
DATE ANALYZED:	12/04/1006:46	12/04/1006:51	DATE RECEIVED:	12/02/10
PREP. BATCH:	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.4
DILTN FACTR:	0.979	0.979		
SAMPLE ID:	SN0228			
CONTROL NO.:	L034-01	L034-01A		
LAB FILE ID:	ID8L005180	ID8L005179		
DATIME EXTRCTD:	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	12/01/10 11:15
DATIME ANALYZD:	12/04/1006:46	12/04/1006:41	DATE RECEIVED:	12/02/10
PREP. BATCH:	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	58.6	61.4	105	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/3/10 14:08
End Date: 12/4/10 09:08

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

- updated IEC for Cd, V
~~1PK062W~~ TH 12/3/10
- 1PK063W2/W6 ↓Ag
- K211-03
  -03
  -04
  -05
  } Na7L0R
- CCB10, CCB11 Na7L0D, >2XMDL
However, associated samples detected >100X blank and levels.
- CCB12 Zn7L0D TH 12/3/10
- CCB8 As 73X10L, ~~however~~ however, all samples for K574 detected ND need rerun for K258 & L046
- L034-01 -T1

Book #: AD8-017
Instrument No.: D8
Analytical Batch: 1D8L005
Analytical Sequence: S-10L6010 (V7)
Method File: 10L6010 (V7)
Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-1601	S30	SM1B1402-03
S1	NA	S31	↓ 02-04
S2	↓	ICV	SM1B1409 01
S3	↓	CCV	↓ 1602
S4	↓	ICSA	↓ 1103
S5	↓	ICSAB	↓ 0303
S6	↓	MLCV	NA
S7	↓	LLCV	↓
S8	↓	CRI/MRL	SM1B12650 1
S9	↓	MBL2	↓ 6401
S10	↓		
S11	↓		
S12	↓		
S16	↓		
S17	↓		
S18	↓		
S20	SM1B12-100-05		
S21	SM1B14-01-01		
S22	↓ 01-02		
S23	↓ 01-03		
S24	↓ 01-04		
S25	↓ 01-05		
S26	SM1B12-100-02		
S27	↓ 100-03		
S28	SM1B1402-01		
S29	↓ 0202		

Analyzed By: TH
Date: 12/3/10

SEQUENCE FILE : ID8L005

4-18. LFID	19-33 LSID	34-43 TIME	44-53 DATE	54-63 DF
ID8L005001	Blank	14:08	12/03/10	1.000
ID8L005002	S20	14:13	12/03/10	1.000
ID8L005003	S21	14:18	12/03/10	1.000
ID8L005004	S22	14:23	12/03/10	1.000
ID8L005005	S23	14:29	12/03/10	1.000
ID8L005006	S24	14:34	12/03/10	1.000
ID8L005007	S25	14:39	12/03/10	1.000
ID8L005008	S26	14:45	12/03/10	1.000
ID8L005009	S27	14:50	12/03/10	1.000
ID8L005010	S28	14:55	12/03/10	1.000
ID8L005011	S29	15:00	12/03/10	1.000
ID8L005012	S30	15:06	12/03/10	1.000
ID8L005013	S31	15:11	12/03/10	1.000
ID8L005014	ICV	15:16	12/03/10	1.000
ID8L005015	ICB	15:21	12/03/10	1.000
ID8L005016	MRLL031	15:26	12/03/10	1.000
ID8L005017	MRLL032	15:31	12/03/10	1.000
ID8L005018	ICSA1	15:36	12/03/10	1.000
ID8L005019	ICSA81	15:42	12/03/10	1.000
ID8L005020	CCV1	15:51	12/03/10	1.000
IDBL005021	CCB1	15:56	12/03/10	1.000
ID8L005022	IPK031WQ	16:01	12/03/10	1.000
ID8L005023	IPK031WX	16:06	12/03/10	1.000
ID8L005024	IPK031WY	16:11	12/03/10	1.000
ID8L005025	K134-01A	16:16	12/03/10	1.000
ID8L005026	K134-01W	16:21	12/03/10	1.000
ID8L005027	K134-01J	16:26	12/03/10	5.000
ID8L005028	K134-02W	16:32	12/03/10	1.000
ID8L005029	K134-03W	16:37	12/03/10	1.000
ID8L005030	K134-04W	16:42	12/03/10	1.000
ID8L005031	CCV2	16:51	12/03/10	1.000
ID8L005032	CCB2	16:56	12/03/10	1.000
ID8L005033	K134-01W	17:01	12/03/10	1.000
ID8L005034	K134-02W	17:07	12/03/10	1.000
ID8L005035	K134-03W	17:12	12/03/10	1.000
ID8L005036	K134-04W	17:17	12/03/10	1.000
ID8L005037	K270-02	17:22	12/03/10	1.000
ID8L005038	K270-04	17:27	12/03/10	1.000
ID8L005039	K270-05	17:33	12/03/10	1.000
ID8L005040	K270-06	17:38	12/03/10	1.000
ID8L005041	CCV3	17:47	12/03/10	1.000
ID8L005042	CCB3	17:52	12/03/10	1.000
ID8L005043	IPK057WB	17:57	12/03/10	1.000
ID8L005044	IPK057WL	18:02	12/03/10	1.000
ID8L005045	IPK057WC	18:07	12/03/10	1.000
ID8L005046	K236-01A	18:12	12/03/10	1.000
ID8L005047	K236-01	18:17	12/03/10	1.000
ID8L005048	K236-01J	18:22	12/03/10	5.000
ID8L005049	K236-03	18:27	12/03/10	1.000
ID8L005050	K234-02	18:33	12/03/10	1.000
ID8L005051	K234-03	18:38	12/03/10	1.000
ID8L005052	K234-04	18:43	12/03/10	1.000
ID8L005053	CCV4	18:52	12/03/10	1.000
ID8L005D54	CCB4	18:57	12/03/10	1.000

ID8L005055	IPK062WB	19:02	12/03/10	1.000
ID8L005056	IPK062WL	19:07	12/03/10	1.000
ID8L005057	IPK062WC	19:12	12/03/10	1.000
ID8L005058	K294-01A	19:17	12/03/10	1.000
ID8L005059	K294-01	19:23	12/03/10	1.000
ID8L005060	K294-01J	19:28	12/03/10	5.000
ID8L005061	K294-01M	19:33	12/03/10	1.000
ID8L005062	K294-01S	19:38	12/03/10	1.000
ID8L005063	K294-02	19:43	12/03/10	1.000
ID8L005064	K294-03	19:49	12/03/10	1.000
ID8L005065	CCV5	19:58	12/03/10	1.000
ID8L005066	CCB5	20:03	12/03/10	1.000
ID8L005067	IPK057WX	20:08	12/03/10	1.000
ID8L005068	IPK057WY	20:13	12/03/10	1.000
ID8L005069	K294-04	20:18	12/03/10	1.000
ID8L005070	K294-05	20:23	12/03/10	1.000
ID8L005071	K294-06	20:29	12/03/10	1.000
ID8L005072	K234-07	20:34	12/03/10	1.000
ID8L005073	ICSA2	20:43	12/03/10	1.000
ID8L005074	ICSAB2	20:48	12/03/10	1.000
ID8L005075	CCV6	20:58	12/03/10	1.000
ID8L005076	CCB6	21:03	12/03/10	1.000
ID8L005077	IPK063WB	21:08	12/03/10	1.000
ID8L005078	IPK063WL	21:13	12/03/10	1.000
ID8L005079	IPK063WC	21:18	12/03/10	1.000
ID8L005080	K267-01A	21:23	12/03/10	1.000
ID8L005081	K267-01	21:28	12/03/10	1.000
ID8L005082	K267-01J	21:33	12/03/10	5.000
ID8L005083	K237-01	21:38	12/03/10	1.000
ID8L005084	K237-02	21:44	12/03/10	1.000
ID8L005085	K237-03	21:49	12/03/10	1.000
ID8L005086	CCV7	21:58	12/03/10	1.000
ID8L005087	CCB7	22:03	12/03/10	1.000
ID8L005088	K267-01M	22:08	12/03/10	1.000
ID8L005089	K267-01S	22:13	12/03/10	1.000
ID8L005090	K267-02	22:18	12/03/10	1.000
ID8L005091	K267-03	22:24	12/03/10	1.000
ID8L005092	K267-04	22:29	12/03/10	1.000
ID8L005093	K267-05	22:34	12/03/10	1.000
ID8L005094	K267-01	22:39	12/03/10	1.000
ID8L005095	K267-02	22:45	12/03/10	1.000
ID8L005096	K267-03	22:50	12/03/10	1.000
ID8L005097	K267-04	22:55	12/03/10	1.000
ID8L005098	CCV8	23:04	12/03/10	1.000
ID8L005099	CCB8	23:10	12/03/10	1.000
ID8L005100	K267-05	23:15	12/03/10	1.000
ID8L005101	K262-17	23:20	12/03/10	1.000
ID8L005102	K271-01	23:25	12/03/10	1.000
ID8L005103	K271-02	23:30	12/03/10	1.000
ID8L005104	K271-03	23:35	12/03/10	1.000
ID8L005105	K271-04	23:41	12/03/10	1.000
ID8L005106	K271-05	23:46	12/03/10	1.000
ID8L005107	CCV9	23:55	12/03/10	1.000
ID8L005108	CCB9	00:00	12/04/10	1.000
ID8L005109	IPK056WB	00:05	12/04/10	1.000
ID8L005110	IPK056WL	00:11	12/04/10	1.000
ID8L005111	IPK056WC	00:16	12/04/10	1.000

ID8L005112	K211-02A	00:21	12/04/10	1.000
ID8L005113	K211-02	00:26	12/04/10	1.000
ID8L005114	K211-02J	00:31	12/04/10	5.000
ID8L005115	K211-02M	00:36	12/04/10	1.000
ID8L005116	K211-02S	00:42	12/04/10	1.000
ID8L005117	K211-03	00:47	12/04/10	1.000
ID8L005118	K211-04	00:52	12/04/10	1.000
ID8L005119	CCV10	01:01	12/04/10	1.000
ID8L005120	CCB10	01:06	12/04/10	1.000
ID8L005121	K211-05	01:12	12/04/10	1.000
ID8L005122	K240-02	01:17	12/04/10	1.000
ID8L005123	K240-03	01:22	12/04/10	1.000
ID8L005124	K240-04	01:27	12/04/10	1.000
ID8L005125	K240-05	01:33	12/04/10	1.000
ID8L005126	K236-02	01:38	12/04/10	1.000
ID8L005127	CCV11	01:47	12/04/10	1.000
ID8L005128	CCB11	01:53	12/04/10	1.000
ID8L005129	IPK064WB	01:58	12/04/10	1.000
ID8L005130	IPK064WL	02:03	12/04/10	1.000
ID8L005131	IPK064WC	02:08	12/04/10	1.000
ID8L005132	K709-01A	02:13	12/04/10	1.000
ID8L005133	K709-01	02:18	12/04/10	1.000
ID8L005134	K709-01D	02:23	12/04/10	1.000
ID8L005135	K709-01J	02:28	12/04/10	5.000
ID8L005136	K709-01M	02:34	12/04/10	1.000
ID8L005137	K709-01S	02:39	12/04/10	1.000
ID8L005138	CCV12	02:48	12/04/10	1.000
ID8L005139	CCB12	02:53	12/04/10	1.000
ID8L005140	IPL004WB	02:58	12/04/10	1.000
ID8L005141	IPL004WL	03:04	12/04/10	1.000
IDBL005142	IPL004WC	03:08	12/04/10	1.000
ID8L005143	K307-07A	03:13	12/04/10	1.000
ID8L005144	K307-07	03:18	12/04/10	1.000
ID8L005145	K307-07J	03:24	12/04/10	5.000
ID8L005146	K307-09	03:29	12/04/10	1.000
ID8L005147	K307-11	03:34	12/04/10	1.000
ID8L005148	K309-03	03:39	12/04/10	1.000
ID8L005149	K309-04	03:44	12/04/10	1.000
IDBL005150	CCV13	03:54	12/04/10	1.000
ID8L005151	CCB13	03:59	12/04/10	1.000
ID8L005152	K309-05	04:04	12/04/10	1.000
ID8L005153	K280-01	04:09	12/04/10	1.000
ID8L005154	K280-01M	04:14	12/04/10	1.000
ID8L005155	K280-01S	04:20	12/04/10	1.000
ID8L005156	K280-02	04:25	12/04/10	1.000
ID8L005157	K280-03	04:30	12/04/10	1.000
ID8L005158	K280-01	04:35	12/04/10	1.000
IDBL005159	K280-01M	04:40	12/04/10	1.000
ID8L005160	K280-01S	04:46	12/04/10	1.000
ID8L005161	K280-02	04:51	12/04/10	1.000
ID8L005162	CCV14	05:00	12/04/10	1.000
ID8L005163	CCB14	05:05	12/04/10	1.000
ID8L005164	K280-03	05:10	12/04/10	1.000
ID8L005165	K278-12	05:16	12/04/10	1.000
ID8L005166	ICSA3	05:25	12/04/10	1.000
ID8L005167	ICSAB3	05:30	12/04/10	1.000
ID8L005168	CCV15	05:40	12/04/10	1.000

ID8L005169	CCB15	05:45	12/04/10	1.000
ID8L005170	WTK009SB	05:50	12/04/10	1.000
ID8L005171	K173-05A	05:55	12/04/10	1.000
ID8L005172	K173-05	06:01	12/04/10	1.000
ID8L005173	K173-05J	06:06	12/04/10	5.000
ID8L005174	CCV16	06:15	12/04/10	1.000
ID8L005175	CCB16	06:20	12/04/10	1.000
ID8L005176	IPL009SB	06:26	12/04/10	1.000
ID8L005177	IPL009SL	06:31	12/04/10	1.000
ID8L005178	IPL009SC	06:36	12/04/10	1.000
ID8L005179	L034-01A	06:41	12/04/10	1.000
ID8L005180	L034-01	06:46	12/04/10	1.000
ID8L005181	L034-01J	06:51	12/04/10	5.000
ID8L005182	L034-01M	06:57	12/04/10	1.000
ID8L005183	L034-01S	07:02	12/04/10	1.000
ID8L005184	L034-02	07:07	12/04/10	1.000
ID8L005185	L034-03	07:13	12/04/10	1.000
ID8L005186	CCV17	07:22	12/04/10	1.000
ID8L005187	CCB17	07:27	12/04/10	1.000
ID8L005188	K288-05	07:32	12/04/10	1.000
ID8L005189	K288-10	07:38	12/04/10	1.000
ID8L005190	K360-02	07:43	12/04/10	1.000
ID8L005191	L046-07	07:48	12/04/10	1.000
ID8L005192	K574-08	07:53	12/04/10	1.000
ID8L005193	K574-10	07:58	12/04/10	1.000
ID8L005194	K574-13	08:03	12/04/10	1.000
ID8L005195	K574-14	08:09	12/04/10	1.000
ID8L005196	CCV18	08:18	12/04/10	1.000
ID8L005197	CCB18	08:23	12/04/10	1.000
ID8L005198	K360-01	08:28	12/04/10	1.000
ID8L005199	K360-02	08:33	12/04/10	1.000
ID8L005200	K360-03	08:38	12/04/10	1.000
ID8L005201	K360-04	08:43	12/04/10	1.000
ID8L005202	K360-05	08:48	12/04/10	1.000
ID8L005203	K360-06	08:53	12/04/10	1.000
ID8L005204	CCV19	09:03	12/04/10	1.000
ID8L005205	CCB19	09:08	12/04/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : ID8L005 DATE : 12/03/10 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	103	99	103	102	100	96	103	100	96	94	102	97	96	104	96	95	100	99	100	104	99	104	98	94	99	99	96	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL031	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL032	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	95	----	----	----	94	----	----	97	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	105	108	108	98	100	105	95	94	93	108	94	93	111	97	93	103	98	107	109	110	111	104	91	100	99	98	105
CCV1	104	100	104	101	99	99	103	100	96	95	102	100	95	104	95	94	101	99	99	105	99	104	98	96	102	98	99	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	103	99	102	100	99	97	103	100	95	95	101	99	96	104	95	93	101	99	98	103	98	103	97	96	103	98	99	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	99	103	100	99	98	103	101	97	94	101	100	95	104	95	94	100	99	99	104	99	104	97	95	102	99	99	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	103	99	103	100	99	96	104	101	95	94	100	99	96	103	96	93	101	99	98	103	97	103	97	96	103	99	98	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

7024

IPK062WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	99	104	101	100	98	103	102	98	94	101	101	95	104	98	95	99	98	100	105	99	105	98	94	100	99	99	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	96	----	----	----	----	----	----	95	----	----	----	94	----	----	97	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	96	102	106	105	98	96	102	94	93	89	103	93	90	107	97	91	99	95	104	106	106	109	100	88	96	97	95	103
CCV6	104	98	105	101	101	98	103	102	98	93	101	100	95	104	98	95	99	98	100	105	99	105	98	94	100	99	98	106
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	104	99	106	102	101	100	103	102	100	94	103	101	95	105	98	96	98	98	101	107	102	106	99	93	98	99	99	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	98	106	102	102	99	103	103	100	94	103	101	95	105	100	96	98	98	101	106	101	106	99	93	98	100	98	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K262-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	103	97	104	102	102	97	104	102	98	93	101	100	95	105	100	96	98	98	100	104	99	105	98	93	99	100	97	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K211-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	102	97	104	102	101	96	103	102	97	92	99	100	95	105	99	93	97	97	100	103	97	106	97	93	99	99	97	106
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	102	97	104	102	101	96	103	102	97	92	99	100	95	105	98	92	97	97	100	103	97	105	97	93	99	99	97	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	97	104	102	101	96	103	102	98	93	99	100	95	105	98	92	98	97	101	103	98	106	98	93	99	99	97	106
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	103	97	104	102	101	96	103	102	97	92	99	100	95	106	97	91	98	97	101	103	97	106	97	93	99	99	97	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	102	97	103	102	100	96	103	102	96	92	99	100	95	106	97	90	98	97	101	103	97	106	97	93	100	99	97	106
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K278-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	95	----	----	----	----	----	----	95	----	----	----	93	----	----	97	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB3	96	101	106	107	98	95	104	94	92	90	102	93	91	110	97	87	100	95	106	104	104	111	101	89	98	98	95	105
CCV15	102	97	103	102	100	95	103	101	96	92	98	100	95	105	97	90	98	97	101	102	96	106	97	93	100	99	97	106

CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	102	97	104	103	100	96	103	102	97	92	99	100	95	106	97	89*	97	97	101	103	97	107	97	93	99	99	97	106
CCB16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV17	102	97	104	102	100	95	103	102	96	92	97	100	95	105	97	88*	98	97	101	102	96	106	97	93	101	99	97	107
CCB17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L046-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	104	98	106	103	100	98	103	102	99	92	101	101	94	107	96	89*	97	97	102	105	99	108	99	92	98	99	98	106
CCB18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV19	104	98	107	104	100	99	103	102	101	93	102	102	94	107	97	90	96	97	103	106	101	108	100	92	97	99	99	106
CCB19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L005 (SOIL) DATE : 12/03/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	1.39	5.85	.520	-.230	.000	1.33	-.090	8.11	-.020	.020	-.210	-5.21	-.370	.200	2.10	.040	2.13	-.170	8.62	.550	.110	9.75	-.060	.000	-.260	.330	-.010	-1.63
MRLL031	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL032	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.51	-.960	.980	-.060	.640	.260	----	1.46	-.290	2.13	----	-.180	5.62	----	.960	-1.58	-.720	58.8	.690	.300	65.6	20.8	-2.58	.930	1.34	-.090	-.850
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	1.39	5.91	.970	-.300	-.020	1.43	-.090	6.19	-.070	.020	.000	-4.30	-.370	-.300	7.92	.020	2.03	-.180	2.96	-.260	-.020	15.6	-.020	.440	-.050	.090	.050	-1.73
IPK031WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.65	6.57	.550	-.040	-.020	1.27	-.070	6.95	-.030	.030	-.050	-2.91	-.390	.370	3.57	.030	1.82	-.070	13.0	-.220	.030	32.0	-.010	.270	.530	-.210	.070	-1.57
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-2.89	6.16	.900	-.310	-.030	1.01	-.130	7.22	-.130	-.030	-.090	-5.31	-.290	.040	5.59	.030	1.95	-.150	24.2	.030	.110	59.4	-.110	.110	.020	-.130	.120	-1.66
IPK057WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	.630	7.74	.300	-.270	-.010	1.10	-.080	4.14	.000	.020	-.090	-5.39	.070	-.130	-.120	.060	2.10	-.290	35.7	.100	.080	45.6	-.020	.340	-.110	-.250	-.010	-1.67

7028

IPK062WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	.220	8.59	1.05	-.360	.010	1.43	-.040	.410	-.010	.060	-.160	-6.00	-.050	.510	-1.98	-.070	2.21	-.190	27.1	.560	-.020	60.6	-.040	-.100	-.080	.050	-.030	-1.81
IPK057WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	6.07	.160	1.08	.110	2.39	-1.24	----	1.58	-.600	1.78	----	-1.59	6.39	----	.930	-1.44	-.780	107	.540	.280	198	20.5	-1.19	1.96	1.01	-.120	.190
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-.800	7.32	1.16	-.320	.010	1.13	-.070	3.13	-.010	.140	-.190	-4.90	-.370	.120	-4.68	.020	2.31	-.160	35.4	.150	.040	49.1	-.010	.530	-.170	.330	.050	-1.94
IPK063WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	2.62	6.72	.920	-.190	.000	1.16	-.100	3.83	-.040	.130	-.270	-3.86	.090	.090	5.46	.060	2.05	-.200	22.1	.140	-.020	55.2	-.020	.090	-.020	.270	-.150	-1.82
K267-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	3.45	5.83	.140	-.300	.020	1.49	-.080	.920	-.020	.200	-.300	-3.56	-.120	-.180	-2.11	.180	1.92	-.130	23.5	.420	.030	86.9	-.020	.430	-.110	.060	-.060	-1.83
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K262-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	7.42	5.64	.090	-.190	-.020	.810	-.080	10.3	.020	-.040	-.280	-3.89	-.230	.350	3.97	-.070	1.94	-.150	19.5	-.020	.110	60.1	-.090	.110	-.050	-.110	-.040	-1.77
IPK056WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K211-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	.050	5.44	.610	-.340	.000	1.05	-.040	-10.3	.000	-.010	-.350	-4.52	-.030	.030	3.06	-.140	1.88	-.130	121	.000	.240	343	-.070	.050	-.130	.550	-.040	-2.22
K211-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-1.22	5.01	.940	-.230	.000	1.37	-.090	-12.3	.050	.030	-.360	-2.26	.240	.060	-3.22	.160	1.95	-.150	53.8	-.060	.090	226	-.090	.260	.000	-.160	-.010	-2.31
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	8.28	9.25	2.15	.240	.150	1.47	.040	383	.170	.110	-.050	1.13	.310	.000	1.14	.370	2.26	.040	54.8	-.560	.120	206	.130	.470	.180	.200	.110	12.5
IPL004WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	.350	4.90	1.17	-.300	-.020	.650	-.050	-14.3	-.040	.110	-.320	-2.89	-.250	-.090	6.36	-.050	1.96	-.250	24.7	-.520	.100	129	-.120	-.200	-.200	-.300	.100	-2.52
K309-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	-1.05	5.48	.780	-.180	.020	1.05	-.050	-15.9	-.010	.090	-.260	-4.48	-.050	.200	-6.57	.600	1.95	-.200	23.8	-.770	.030	126	-.060	.500	.010	.130	.080	-2.59
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K278-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	----	8.86	1.90	1.03	.070	3.88	-1.12	----	1.57	-.510	1.60	----	-1.41	6.97	----	1.02	-1.55	-.840	63.1	-1.41	.400	248	20.4	-.750	.600	.290	-.240	-1.26
ICSAB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCB15	-1.51	4.69	1.25	-.250	.010	.740	-.050	-13.3	.030	.000	-.260	-5.08	.030	-.280	3.90	.030	2.04	-.140	22.4	-.200	.150	93.8	-.130	.410	-.110	.040	-.060	-2.39
WTK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB16	-1.33	4.73	1.56	-.330	-.010	.740	-.090	-15.2	-.050	.080	-.360	-3.80	-.340	-.070	1.09	.100	1.93	-.230	151	.220	-.040	478	-.100	.270	-.070	.220	-.020	-2.50
IPL009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB17	-4.03	5.28	1.98	-.280	-.010	.630	-.080	-15.1	-.030	.070	-.300	-5.45	.090	.090	5.44	-.010	1.92	-.170	15.4	-.140	.140	108	-.070	-.180	-.120	.250	.020	-2.55
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L046-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB18	.860	9.90	6.50	-.090	.000	2.82	-.430	-12.7	.800	-.400	-.900	16.6	3.44	-.330	3.93	.420	2.08	.200	.980	2.49	.300	65.4	-.070	2.50	-4.97	.190	-1.44	1.62
K360-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB19	2.16	4.86	1.01	-.250	.010	1.24	-.060	-14.6	.040	.160	-.400	-2.85	-.280	.220	2.93	.040	1.88	-.260	-13.0	.580	-.010	43.9	-.030	-.220	-.310	.350	-.060	-2.45

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L005001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L005002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L005003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L005004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L005005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L005006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L005007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L005008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L005009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L005010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L005011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L005012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L005013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8L005014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L005015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL031		ID8L005016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLL032		ID8L005017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8L005018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L005019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L005020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L005021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPK031WQ		ID8L005022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPK031WX		ID8L005023			1	☒	LCS	None
24	11	2	11	1	QC	IPK031WY		ID8L005024			1	☒	LCS	None
25	12	2	12	1	Unk	K134-01A	TOT	ID8L005025			1	☒	unk	---
26	13	2	1	2	Unk	K134-01W	TOT	ID8L005026			1	☒	unk	---
27	14	2	2	2	Unk	K134-01J	TOT	ID8L005027			1	☒	unk	---
28	15	2	3	2	Unk	K134-02W	TOT	ID8L005028			1	☒	unk	---
29	16	2	4	2	Unk	K134-03W	TOT	ID8L005029			1	☒	unk	---
30	17	2	5	2	Unk	K134-04W	TOT	ID8L005030			1	☒	unk	---
31	18	2	6	2	QC	CCV2		ID8L005031			1	☒	CCV	None
32	19	2	7	2	QC	CCB2		ID8L005032			1	☒	3XIDL	None
33	20	2	8	2	Unk	K134-01W	DISS	ID8L005033			1	☒	unk	---
34	21	2	9	2	Unk	K134-02W	DISS	ID8L005034			1	☒	unk	---
35	22	2	10	2	Unk	K134-03W	DISS	ID8L005035			1	☒	unk	---
36	23	2	11	2	Unk	K134-04W	DISS	ID8L005036			1	☒	unk	---
37	24	2	12	2	Unk	K270-02		ID8L005037			1	☒	unk	---
38	25	2	1	3	Unk	K270-04		ID8L005038			1	☒	unk	---
39	26	2	2	3	Unk	K270-05		ID8L005039			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	K270-06		ID8L005040			1	☒	unk	---
41	28	2	4	3	QC	CCV3		ID8L005041			1	☒	CCV	None
42	29	2	5	3	QC	CCB3		ID8L005042			1	☒	3XIDL	None
43	30	2	6	3	QC	IPK057WB		ID8L005043			1	☒	1/2LOQ	None
44	31	2	7	3	QC	IPK057WL		ID8L005044			1	☒	LCS	None
45	32	2	8	3	QC	IPK057WC		ID8L005045			1	☒	LCS	None
46	33	2	9	3	Unk	K236-01A		ID8L005046			1	☒	unk	---
47	34	2	10	3	Unk	K236-01		ID8L005047			1	☒	unk	---
48	35	2	11	3	Unk	K236-01J		ID8L005048			1	☒	unk	---
49	36	2	12	3	Unk	K236-03		ID8L005049			1	☒	unk	---
50	37	2	1	4	Unk	K234-02		ID8L005050			1	☒	unk	---
51	38	2	2	4	Unk	K234-03		ID8L005051			1	☒	unk	---
52	39	2	3	4	Unk	K234-04		ID8L005052			1	☒	unk	---
53	40	2	4	4	QC	CCV4		ID8L005053			1	☒	CCV	None
54	41	2	5	4	QC	CCB4		ID8L005054			1	☒	3XIDL	None
55	42	2	6	4	QC	IPK062WB		ID8L005055			1	☒	1/2LOQ	None
56	43	2	7	4	QC	IPK062WL		ID8L005056			1	☒	LCS	None
57	44	2	8	4	QC	IPK062WC		ID8L005057			1	☒	LCS	None
58	45	2	9	4	Unk	K294-01A		ID8L005058			1	☒	unk	---
59	46	2	10	4	Unk	K294-01		ID8L005059			1	☒	unk	---
60	47	2	11	4	Unk	K294-01J		ID8L005060			1	☒	unk	---
61	48	2	12	4	Unk	K294-01M		ID8L005061			1	☒	unk	---
62	49	2	1	5	Unk	K294-01S		ID8L005062			1	☒	unk	---
63	50	2	2	5	Unk	K294-02		ID8L005063			1	☒	unk	---
64	51	2	3	5	Unk	K294-03		ID8L005064			1	☒	unk	---
65	52	2	4	5	QC	CCV5		ID8L005065			1	☒	CCV	None
66	53	2	5	5	QC	CCB5		ID8L005066			1	☒	3XIDL	None
67	11	2	11	1	QC	IPK057WX		ID8L005067			1	☒	LCS	None
68	12	2	12	1	QC	IPK057WY		ID8L005068			1	☒	LCS	None
69	54	2	6	5	Unk	K294-04		ID8L005069			1	☒	unk	---
70	55	2	7	5	Unk	K294-05		ID8L005070			1	☒	unk	---
71	56	2	8	5	Unk	K294-06		ID8L005071			1	☒	unk	---
72	57	2	9	5	Unk	K234-07		ID8L005072			1	☒	unk	---
73	58	2	10	5	QC	ICSA2		ID8L005073			1	☒	ICSA	None
74	59	2	11	5	QC	ICSAB2		ID8L005074			1	☒	ICSAB	None
75	60	2	12	5	QC	CCV6		ID8L005075			1	☒	CCV	None
76	61	3	1	1	QC	CCB6		ID8L005076			1	☒	3XIDL	None
77	62	3	2	1	QC	IPK063WB		ID8L005077			1	☒	1/2LOQ	None
78	63	3	3	1	QC	IPK063WL		ID8L005078			1	☒	LCS	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	64	3	4	1	QC	IPK063WC		ID8L005079			1	☒	LCS	None
80	65	3	5	1	Unk	K267-01A	TOT	ID8L005080			1	☒	unk	—
81	66	3	6	1	Unk	K267-01	TOT	ID8L005081			1	☒	unk	—
82	67	3	7	1	Unk	K267-01J	TOT	ID8L005082			1	☒	unk	—
83	68	3	8	1	Unk	K237-01		ID8L005083			1	☒	unk	—
84	69	3	9	1	Unk	K237-02		ID8L005084			1	☒	unk	—
85	70	3	10	1	Unk	K237-03		ID8L005085			1	☒	unk	—
86	71	3	11	1	QC	CCV7		ID8L005086			1	☒	CCV	None
87	72	3	12	1	QC	CCB7		ID8L005087			1	☒	3XIDL	None
88	73	3	1	2	Unk	K267-01M	TOT	ID8L005088			1	☒	unk	—
89	74	3	2	2	Unk	K267-01S	TOT	ID8L005089			1	☒	unk	—
90	75	3	3	2	Unk	K267-02	TOT	ID8L005090			1	☒	unk	—
91	76	3	4	2	Unk	K267-03	TOT	ID8L005091			1	☒	unk	—
92	77	3	5	2	Unk	K267-04	TOT	ID8L005092			1	☒	unk	—
93	78	3	6	2	Unk	K267-05	TOT	ID8L005093			1	☒	unk	—
94	79	3	7	2	Unk	K267-01	DISS	ID8L005094			1	☒	unk	—
95	80	3	8	2	Unk	K267-02	DISS	ID8L005095			1	☒	unk	—
96	81	3	9	2	Unk	K267-03	DISS	ID8L005096			1	☒	unk	—
97	82	3	10	2	Unk	K267-04	DISS	ID8L005097			1	☒	unk	—
98	83	3	11	2	QC	CCV8		ID8L005098			1	☒	CCV	None
99	84	3	12	2	QC	CCB8		ID8L005099			1	☒	3XIDL	None
100	85	3	1	3	Unk	K267-05	DISS	ID8L005100			1	☒	unk	—
101	86	3	2	3	Unk	K262-17		ID8L005101			1	☒	unk	—
102	87	3	3	3	Unk	K271-01		ID8L005102			1	☒	unk	—
103	88	3	4	3	Unk	K271-02		ID8L005103			1	☒	unk	—
104	89	3	5	3	Unk	K271-03		ID8L005104			1	☒	unk	—
105	90	3	6	3	Unk	K271-04		ID8L005105			1	☒	unk	—
106	91	3	7	3	Unk	K271-05		ID8L005106			1	☒	unk	—
107	92	3	8	3	QC	CCV9		ID8L005107			1	☒	CCV	None
108	93	3	9	3	QC	CCB9		ID8L005108			1	☒	3XIDL	None
109	94	3	10	3	QC	IPK056WB		ID8L005109			1	☒	1/2LOQ	None
110	95	3	11	3	QC	IPK056WL		ID8L005110			1	☒	LCS	None
111	96	3	12	3	QC	IPK056WC		ID8L005111			1	☒	LCS	None
112	97	3	1	4	Unk	K211-02A		ID8L005112			1	☒	unk	—
113	98	3	2	4	Unk	K211-02		ID8L005113			1	☒	unk	—
114	99	3	3	4	Unk	K211-02J		ID8L005114			1	☒	unk	—
115	100	3	4	4	Unk	K211-02M		ID8L005115			1	☒	unk	—
116	101	3	5	4	Unk	K211-02S		ID8L005116			1	☒	unk	—
117	102	3	6	4	Unk	K211-03		ID8L005117			1	☒	unk	—

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	103	3	7	4	Unk	K211-04		ID8L005118			1	☒	unk	—
119	104	3	8	4	QC	CCV10		ID8L005119			1	☒	CCV	None
120	105	3	9	4	QC	CCB10		ID8L005120			1	☒	3XIDL	None
121	106	3	10	4	Unk	K211-05		ID8L005121			1	☒	unk	—
122	107	3	11	4	Unk	K240-02		ID8L005122			1	☒	unk	—
123	108	3	12	4	Unk	K240-03		ID8L005123			1	☒	unk	—
124	109	3	1	5	Unk	K240-04		ID8L005124			1	☒	unk	—
125	110	3	2	5	Unk	K240-05		ID8L005125			1	☒	unk	—
126	111	3	3	5	Unk	K236-02		ID8L005126			1	☒	unk	—
127	112	3	4	5	QC	CCV11		ID8L005127			1	☒	CCV	None
128	113	3	5	5	QC	CCB11		ID8L005128			1	☒	3XIDL	None
129	180	4	12	5	QC	IPK064WB		ID8L005129			1	☒	1/2LOQ	None
130	1	2	1	1	QC	IPK064WL		ID8L005130			1	☒	LCS-200.7	None
131	2	2	2	1	QC	IPK064WC		ID8L005131			1	☒	LCS-200.7	None
132	3	2	3	1	Unk	K709-01A	1ppm spike	ID8L005132			1	☒	unk	—
133	4	2	4	1	Unk	K709-01		ID8L005133			1	☒	unk	—
134	5	2	5	1	Unk	K709-01D		ID8L005134			1	☒	unk	—
135	6	2	6	1	Unk	K709-01J		ID8L005135			1	☒	unk	—
136	7	2	7	1	Unk	K709-01M		ID8L005136			1	☒	unk	—
137	8	2	8	1	Unk	K709-01S		ID8L005137			1	☒	unk	—
138	9	2	9	1	QC	CCV12		ID8L005138			1	☒	CCV	None
139	10	2	10	1	QC	CCB12		ID8L005139			1	☒	3XIDL	None
140	114	3	6	5	QC	IPL004WB		ID8L005140			1	☒	1/2LOQ	None
141	115	3	7	5	QC	IPL004WL		ID8L005141			1	☒	LCS	None
142	116	3	8	5	QC	IPL004WC		ID8L005142			1	☒	LCS	None
143	117	3	9	5	Unk	K307-07A		ID8L005143			1	☒	unk	—
144	118	3	10	5	Unk	K307-07		ID8L005144			1	☒	unk	—
145	119	3	11	5	Unk	K307-07J		ID8L005145			1	☒	unk	—
146	120	3	12	5	Unk	K307-09		ID8L005146			1	☒	unk	—
147	121	4	1	1	Unk	K307-11		ID8L005147			1	☒	unk	—
148	122	4	2	1	Unk	K309-03		ID8L005148			1	☒	unk	—
149	123	4	3	1	Unk	K309-04		ID8L005149			1	☒	unk	—
150	124	4	4	1	QC	CCV13		ID8L005150			1	☒	CCV	None
151	125	4	5	1	QC	CCB13		ID8L005151			1	☒	3XIDL	None
152	126	4	6	1	Unk	K309-05		ID8L005152			1	☒	unk	—
153	127	4	7	1	Unk	K280-01	TOT	ID8L005153			1	☒	unk	—
154	128	4	8	1	Unk	K280-01M	TOT	ID8L005154			1	☒	unk	—
155	129	4	9	1	Unk	K280-01S	TOT	ID8L005155			1	☒	unk	—
156	130	4	10	1	Unk	K280-02	TOT	ID8L005156			1	☒	unk	—

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	131	4	11	1	Unk	K280-03	TOT	ID8L005157			1	☒	unk	---
158	132	4	12	1	Unk	K280-01	DISS	ID8L005158			1	☒	unk	---
159	133	4	1	2	Unk	K280-01M	DISS	ID8L005159			1	☒	unk	---
160	134	4	2	2	Unk	K280-01S	DISS	ID8L005160			1	☒	unk	---
161	135	4	3	2	Unk	K280-02	DISS	ID8L005161			1	☒	unk	---
162	136	4	4	2	QC	CCV14		ID8L005162			1	☒	CCV	None
163	137	4	5	2	QC	CCB14		ID8L005163			1	☒	3XIDL	None
164	138	4	6	2	Unk	K280-03	DISS	ID8L005164			1	☒	unk	---
165	139	4	7	2	Unk	K278-12		ID8L005165			1	☒	unk	---
166	140	4	8	2	QC	ICSA3		ID8L005166			1	☒	ICSA	None
167	141	4	9	2	QC	ICSAB3		ID8L005167			1	☒	ICSAB	None
168	142	4	10	2	QC	CCV15		ID8L005168			1	☒	CCV	None
169	143	4	11	2	QC	CCB15		ID8L005169			1	☒	3XIDL	None
170	144	4	12	2	QC	WTK009SB	STLC	ID8L005170			1	☒	1/2LOQ	None
171	145	4	1	3	Unk	K173-05A	STLC	ID8L005171			1	☒	unk	---
172	146	4	2	3	Unk	K173-05	STLC	ID8L005172			1	☒	unk	---
173	147	4	3	3	Unk	K173-05J	STLC	ID8L005173			1	☒	unk	---
174	148	4	4	3	QC	CCV16	⊥Mn	ID8L005174			1	☒	CCV	None
175	149	4	5	3	QC	CCB16		ID8L005175			1	☒	3XIDL	None
176	150	4	6	3	QC	IPL009SB		ID8L005176			1	☒	1/2LOQ	None
177	151	4	7	3	QC	IPL009SL		ID8L005177			1	☒	LCS	None
178	152	4	8	3	QC	IPL009SC		ID8L005178			1	☒	LCS	None
179	153	4	9	3	Unk	L034-01A		ID8L005179			1	☒	unk	---
180	154	4	10	3	Unk	L034-01		ID8L005180			1	☒	unk	---
181	155	4	11	3	Unk	L034-01J		ID8L005181			1	☒	unk	---
182	156	4	12	3	Unk	L034-01M		ID8L005182			1	☒	unk	---
183	157	4	1	4	Unk	L034-01S		ID8L005183			1	☒	unk	---
184	158	4	2	4	Unk	L034-02		ID8L005184			1	☒	unk	---
185	159	4	3	4	Unk	L034-03		ID8L005185			1	☒	unk	---
186	160	4	4	4	QC	CCV17		ID8L005186			1	☒	CCV	None
187	161	4	5	4	QC	CCB17		ID8L005187			1	☒	3XIDL	None
188	162	4	6	4	Unk	K288-05		ID8L005188			1	☒	unk	---
189	163	4	7	4	Unk	K288-10		ID8L005189			1	☒	unk	---
190	164	4	8	4	Unk	K360-02	dried & sieved	ID8L005190			1	☒	unk	---
191	165	4	9	4	Unk	L046-07		ID8L005191			1	☒	unk	---
192	166	4	10	4	Unk	K574-08		ID8L005192			1	☒	unk	---
193	167	4	11	4	Unk	K574-10		ID8L005193			1	☒	unk	---
194	168	4	12	4	Unk	K574-13		ID8L005194			1	☒	unk	---
195	169	4	1	5	Unk	K574-14		ID8L005195			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
196	170	4	2	5	QC	CCV18		ID8L005196			1	☒	CCV	None
197	171	4	3	5	QC	CCB18		ID8L005197			1	☒	3XIDL	None
198	172	4	4	5	Unk	K360-01	XRF	ID8L005198			1	☒	unk	---
199	173	4	5	5	Unk	K360-02	XRF	ID8L005199			1	☒	unk	---
200	174	4	6	5	Unk	K360-03	XRF	ID8L005200			1	☒	unk	---
201	175	4	7	5	Unk	K360-04	XRF	ID8L005201			1	☒	unk	---
202	176	4	8	5	Unk	K360-05	XRF	ID8L005202			1	☒	unk	---
203	177	4	9	5	Unk	K360-06	XRF	ID8L005203			1	☒	unk	---
204	178	4	10	5	QC	CCV19		ID8L005204			1	☒	CCV	None
205	179	4	11	5	QC	CCB19		ID8L005205			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00126	.00002	-.00001	.00041	.00014	.00064	-.00018	.00051	.00002	-.00084	Blank
2	S20					.84035		2.7399				S20
3	S21					8.1541		25.458				S21
4	S22				.54151						.16194	S22
5	S23				5.2940						1.6703	S23
6	S24						.10198					S24
7	S25						1.0632					S25
8	S26	.27864							.83326	.15426		S26
9	S27	10.122							7.6492	1.4432		S27
10	S28		.00537									S28
11	S29		.05349									S29
12	S30			.00143								S30
13	S31			.00574								S31
14	ICV	102.82	1.4780	1.0289	2.0319	1.5032	2.4036	2.0611	75.305	2.3891	.93903	ICV
15	ICB	.00139	.00585	.00052	-.00023	.00000	.00133	-.00009	.00811	-.00002	.00002	ICB
16	MRLL031	.21936	.10228	.01184	.01086	.01068	.00550*	.01069	1.0916	.01071	.00973	MRLL031
17	MRLL032	.22491	.05112	.00955	.00529	.00427	.09114	.00531	.56026	.01035	.00973	MRLL032
18	ICSA1	395.13	.00851	-.00096	.00098	-.00006	.00064	.00026	474.02	.00146	-.00029	ICSA1
19	ICSAB1	397.47	1.0542	1.0826	.53759	.49206	.49914	1.0500	473.65	.47162	.46626	ICSAB1
20	CCV1	103.76	1.4927	1.0364	2.0158	1.4855	2.4649	2.0678	75.365	2.4113	.94889	CCV1
21	CCB1	.00139	.00591	.00097	-.00030	-.00002	.00143	-.00009	.00619	-.00007	.00002	CCB1
22	IPK031WQ	.00704	.00097	.00197	.00073	.00001	.00185	.00003	.00061	-.00004	.00011	IPK031WQ
23	IPK031WX	5.7650	2.6911	.55892	.52047	.51817	.53842	.55244	52.494	.51869	.49933	IPK031WX
24	IPK031WY	5.6508	2.6305	.54606	.51442	.51063	.52438	.54226	51.576	.50230	.48905	IPK031WY
25	K134-01A	5.7018	2.6197	.55376	.66210	.49550	1.0868	.54039	89.566	.51837	.48292	K134-01A
26	K134-01W	.03123	.00892	.00437	.15853	.00006	.57827	.00336	41.337	.02792	-.00014	K134-01W
27	K134-01J	.00420	.00456	.00178	.03155	.00004	.11043	.00063	8.4765	.00568	.00009	K134-01J
28	K134-02W	.00821	.00041	.00150	-.00028	.00010	-.00308	.00006	-.00269	.00007	.00012	K134-02W
29	K134-03W	.00649	.00048	.00170	-.00003	.00015	-.00338	.00008	.00605	.00008	.00020	K134-03W
30	K134-04W	.01366	.00014	.00370	.12317	.00007	.73265	.00012	28.218	.02575	.00000	K134-04W
31	CCV2	102.69	1.4859	1.0242	1.9999	1.4779	2.4260	2.0670	75.290	2.3720	.94716	CCV2
32	CCB2	-.00165	.00657	.00055	-.00004	-.00002	.00127	-.00007	.00695	-.00003	.00003	CCB2
33	K134-01W	.01516	.00125	.00405	.15488	.00010	.57072	.00305	40.852	.02816	-.00018	K134-01W
34	K134-02W	.01053	-.00049	.00205	-.00013	-.00001	-.00334	.00000	.00332	.00007	.00009	K134-02W
35	K134-03W	.00883	.00004	.00171	-.00002	.00004	-.00270	-.00001	.00015	.00002	.00016	K134-03W
36	K134-04W	.02371	-.00074	.00449	.12404	-.00001	.72448	.00005	28.229	.02489	-.00017	K134-04W
37	K270-02	.01473	-.00311	.00416	.13770	.00002	.08364	.00019	419.98	.00132	-.00046	K270-02
38	K270-04	.00962	-.00109	.00223	.14457	.00013	.07300	.00032	108.79	.00043	-.00032	K270-04
39	K270-05	.01503	-.00151	.00268	.13964	.00030	.07299	.00057	105.14	.00082	.00001	K270-05
40	K270-06	.01389	-.00131	.00303	.01717	.00006	.05863	.00015	121.58	.00108	-.00025	K270-06
41	CCV3	103.53	1.4855	1.0331	2.0088	1.4901	2.4510	2.0630	75.600	2.4134	.94382	CCV3
42	CCB3	-.00289	.00616	.00090	-.00031	-.00003	.00101	-.00013	.00722	-.00013	-.00003	CCB3
43	IPK057WB	.00119	.00020	.00188	-.00025	.00002	.00123	.00006	-.01446	.00005	.00013	IPK057WB
44	IPK057WL	5.6550	2.5591	.53917	.50697	.50321	.51460	.53685	53.063	.49654	.47713	IPK057WL
45	IPK057WC	5.7581	2.6684	.54824	.51634	.51278	.52854	.54751	52.595	.50477	.48711	IPK057WC
46	K236-01A	5.6768	2.4874	.53835	.56551	.50096	.56418	.53528	106.16	.49029	.47833	K236-01A
47	K236-01	.01023	.01657	.00271	.06027	.00002	.05576	.00012	57.304	.00041	-.00041	K236-01
48	K236-01J	-.00087	.00681	.00119	.01167	.00005	.01027	-.00001	11.507	.00022	-.00010	K236-01J
49	K236-03	.01564	-.00021	.00400	.04184	-.00003	.07160	.00004	98.053	.00039	-.00043	K236-03
50	K234-02	.01463	-.00018	.00626	.00498	-.00004	.05819	.00004	74.900	.00118	-.00018	K234-02
51	K234-03	.01345	-.00059	.00553	.00450	.00001	.05515	.00007	72.618	.00112	-.00033	K234-03
52	K234-04	.01214	-.00033	.00238	.01525	-.00002	.06112	.00007	91.311	.00057	-.00045	K234-04
53	CCV4	102.55	1.4813	1.0272	2.0095	1.4875	2.4086	2.0720	75.701	2.3649	.94082	CCV4

54	CCB4	.00063	.00774	.00030	-.00027	-.00001	.00110	-.00008	.00414	.00000	.00002	CCB4
55	IPK062WB	-.00257	.00296	.00112	-.00010	.00001	-.00017	-.00005	-.00618	-.00006	.00010	IPK062WB
56	IPK062WL	5.3723	2.4424	.51416	.48324	.48479	.49116	.51202	49.783	.47492	.45359	IPK062WL
57	IPK062WC	5.4259	2.5470	.52932	.49760	.50411	.50475	.52201	50.331	.48502	.46316	IPK062WC
58	K294-01A	5.6766	2.4948	.55088	.59427	.48965	.64515	.52967	188.92	.48684	.47177	K294-01A
59	K294-01	.01085	.01773	.00862	.09554	.00018	.14552	.00011	144.27	.00056	-.00005	K294-01
60	K294-01J	.00137	.00889	.00421	.01900	.00000	.02770	-.00006	29.907	.00024	.00006	K294-01J
61	K294-01M	5.6676	2.6160	.55039	.60626	.50387	.65410	.53527	192.98	.48595	.47529	K294-01M
62	K294-01S	5.7805	2.6464	.55954	.60766	.50347	.66098	.53628	192.43	.49693	.47772	K294-01S
63	K294-02	.01157	.01154	.00423	.05449	.00004	.14389	.00009	177.80	.00287	-.00014	K294-02
64	K294-03	.01389	.00434	.00492	.07987	.00006	.16118	.00021	146.87	.00107	-.00026	K294-03
65	CCV5	103.52	1.4890	1.0447	2.0209	1.5055	2.4560	2.0643	76.493	2.4467	.93685	CCV5
66	CCB5	.00022	.00859	.00105	-.00036	.00001	.00143	-.00004	.00041	-.00001	.00006	CCB5
67	IPK057WX	4.9617	2.4556	.50349	.48416	.49487	.46097	.51829	51.068	.48780	.46512	IPK057WX
68	IPK057WY	5.0039	2.4501	.50858	.49272	.50393	.45941	.52863	51.116	.49831	.47431	IPK057WY
69	K294-04	.01052	.00421	.00416	.11924	.00004	.15047	.00029	150.81	.00092	.00005	K294-04
70	K294-05	.01146	.00068	.00227	.01390	-.00001	.15348	.00013	102.68	.00105	-.00040	K294-05
71	K294-06	.01146	-.00037	.00790	.00704	.00001	.18779	.00016	93.387	.00371	-.00040	K294-06
72	K234-07	.01093	-.00036	.00422	.05721	.00000	.06922	.00006	98.564	.00079	-.00032	K234-07
73	ICSA2	385.20	.00607	.00016	.00108	.00011	.00239	-.00124	473.29	.00158	-.00060	ICSA2
74	ICSAB2	384.78	1.0182	1.0594	.52512	.48775	.47972	1.0216	472.24	.46462	.44735	ICSAB2
75	CCV6	103.79	1.4755	1.0451	2.0256	1.5093	2.4492	2.0657	76.523	2.4474	.93492	CCV6
76	CCB6	-.00080	.00732	.00116	-.00032	.00001	.00113	-.00007	.00313	-.00001	.00014	CCB6
77	IPK063WB	.00306	.00006	.00216	-.00020	.00002	.00121	.00007	-.01247	-.00007	.00025	IPK063WB
78	IPK063WL	4.9162	2.3642	.50016	.48550	.49455	.43994	.52055	50.509	.49056	.46738	IPK063WL
79	IPK063WC	4.8569	2.3493	.49210	.47952	.49123	.43898	.51263	49.577	.48147	.45943	IPK063WC
80	K267-01A	5.7379	2.4831	.55888	.54709	.50266	1.0787	.53254	77.154	.52650	.47170	K267-01A
81	K267-01	.04265	.01682	.00368	.04049	.00001	.57114	.00002	27.001	.01973	-.00013	K267-01
82	K267-01J	.01259	.00792	.00210	.00846	.00001	.11259	-.00009	5.5443	.00415	.00008	K267-01J
83	K237-01	.01312	.00010	.00247	.02220	-.00001	.04724	.00008	99.001	.00264	-.00028	K237-01
84	K237-02	.01283	-.00008	.00299	.02207	.00004	.04822	.00007	99.855	.00242	-.00033	K237-02
85	K237-03	.01387	-.00082	.00080	.02788	-.00003	.03397	.00004	111.43	.00114	.00161	K237-03
86	CCV7	104.41	1.4845	1.0649	2.0382	1.5150	2.4993	2.0670	76.655	2.5076	.93792	CCV7
87	CCB7	.00262	.00672	.00092	-.00019	.00000	.00116	-.00010	.00383	-.00004	.00013	CCB7
88	K267-01M	5.9367	2.6428	.57212	.56487	.51644	1.1263	.54556	79.491	.53831	.48158	K267-01M
89	K267-01S	5.7395	2.5965	.55996	.54967	.50594	1.0881	.53140	77.084	.52875	.47120	K267-01S
90	K267-02	.01169	.01188	.00189	.00048	.00003	-.00412	.00001	.02601	.00007	.00016	K267-02
91	K267-03	.02826	.00121	.00474	.04648	.00002	.31601	.00003	34.582	.24485	-.00028	K267-03
92	K267-04	.02767	.00148	.00493	.09019	.00008	.35322	.00003	28.254	.05721	-.00016	K267-04
93	K267-05	.03127	-.00009	.00617	.09218	.00019	.36604	.00020	29.104	.05896	-.00016	K267-05
94	K267-01	.02713	-.00058	.00461	.04132	.00002	.60981	.00003	27.571	.02074	-.00017	K267-01
95	K267-02	.01116	-.00045	.00277	.00003	.00004	-.00466	.00001	.00823	.00001	.00007	K267-02
96	K267-03	.05661	-.00283	.00521	.04920	.00004	.33705	.00013	36.366	.25827	-.00016	K267-03
97	K267-04	.01895	-.00050	.00541	.09016	.00009	.35846	.00008	28.455	.05740	-.00033	K267-04
98	CCV8	103.65	1.4705	1.0573	2.0475	1.5281	2.4769	2.0680	77.078	2.4960	.93616	CCV8
99	CCB8	.00345	.00583	.00014	-.00030	.00002	.00149	-.00008	.00092	-.00002	.00020	CCB8
100	K267-05	.01870	.00043	.00596	.09098	.00004	.35889	.00004	28.882	.05840	-.00025	K267-05
101	K262-17	.01161	.00048	.00144	.00010	.00001	-.00444	-.00006	.01757	.00020	.00011	K262-17
102	K271-01	.01800	-.00021	.00649	.01448	.00010	.04739	.00009	72.165	.00194	-.00022	K271-01
103	K271-02	.01856	-.00087	.00705	.00217	.00002	.02366	.00018	65.768	.00089	-.00036	K271-02
104	K271-03	.01817	-.00117	.00273	.15424	.00001	.02293	.00004	270.34	.00055	-.00062	K271-03
105	K271-04	.01832	-.00103	.00195	.01478	.00004	.04274	.00010	73.324	.00134	-.00024	K271-04
106	K271-05	.01568	-.00086	.00485	.00427	.00003	.03813	.00014	66.715	.00056	-.00026	K271-05
107	CCV9	102.81	1.4566	1.0428	2.0480	1.5283	2.4276	2.0739	76.833	2.4460	.93358	CCV9
108	CCB9	.00742	.00564	.00009	-.00019	-.00002	.00081	-.00008	.01028	.00002	-.00004	CCB9
109	IPK056WB	.00901	.00161	.00136	.00005	.00001	.00116	-.00004	.01603	.00014	-.00002	IPK056WB

110	IPK056WL	4.8573	2.2894	.48970	.48188	.48871	.43113	.51242	49.183	.47906	.45678	IPK056WL
111	IPK056WC	4.9204	2.3351	.49887	.48243	.49040	.44179	.51139	49.273	.48731	.45738	IPK056WC
112	K211-02A	19.287	2.7681	.62640	.60195	.50386	1.2838	.53566	138.72	2.7926	.47883	K211-02A
113	K211-02	13.264	-.01288	.00413	.08729	.00396	.75802	.00087	93.726	2.3086	.00944	K211-02
114	K211-02J	2.4415	-.00165	.00301	.01719	.00084	.14824	.00007	19.231	.48189	.00200	K211-02J
115	K211-02M	20.113	2.8780	.63969	.61760	.51272	1.3454	.54320	142.80	2.9116	.48380	K211-02M
116	K211-02S	20.051	2.8979	.64003	.61644	.51210	1.3404	.54233	142.69	2.9018	.48225	K211-02S
117	K211-03	11.025	-.01649	.00096	.07998	.00352	.77412	.00089	89.982	2.6575	.00860	K211-03
118	K211-04	2.2096	.00540	.00167	.09288	.00214	.60657	.00088	120.68	.00405	.01940	K211-04
119	CCV10	102.38	1.4482	1.0421	2.0314	1.5112	2.4023	2.0607	76.670	2.4300	.92289	CCV10
120	CCB10	.00005	.00544	.00061	-.00034	.00000	.00105	-.00004	-.01028	.00000	-.00001	CCB10
121	K211-05	1.6360	.00515	.00042	.10097	.00206	.66416	.00099	133.62	.00245	.01985	K211-05
122	K240-02	.01285	.00112	.00759	.22294	-.00002	1.3075	-.00006	26.165	.00079	.00016	K240-02
123	K240-03	.01477	.00140	.00776	.22412	.00000	1.3131	-.00002	26.190	.00087	.00024	K240-03
124	K240-04	.01677	.00141	.00849	.17757	-.00003	1.3088	-.00006	20.630	.00078	.00081	K240-04
125	K240-05	.01239	.00000	.00627	.13965	.00001	1.4086	-.00006	27.086	.00114	.00030	K240-05
126	K236-02	.01809	.00163	.00494	.06480	.00001	.06933	-.00002	162.42	.00119	-.00044	K236-02
127	CCV11	102.19	1.4479	1.0358	2.0418	1.5110	2.3960	2.0636	76.587	2.4248	.92351	CCV11
128	CCB11	-.00122	.00501	.00094	-.00023	.00000	.00137	-.00009	-.01226	.00005	.00003	CCB11
129	IPK064WB	.00165	-.00047	.00263	-.00018	.00005	.00141	.00009	-.01220	.00001	.00015	IPK064WB
130	IPK064WL	5.6924	2.5134	.55062	.51598	.51469	.51136	.53826	54.134	.50944	.46968	IPK064WL
131	IPK064WC	5.7574*	2.6161	.55734	.52744	.52628	.52103	.54960	53.696	.51605	.47928	IPK064WC
132	K709-01A	11.270	5.0415	1.1230	1.0627	1.0023	1.3462	1.0675	131.82	.99323	.93754	K709-01A
133	K709-01	.02298	.02378	.00288	.04216	.00014	.36605	.00022	84.421	.00092	.00017	K709-01
134	K709-01D	.02407	.00645	.00234	.04282	.00003	.37934	.00008	86.033	.00071	.00003	K709-01D
135	K709-01J	.00709	.00788	.00101	.00838	.00016	.06982	.00018	16.933	.00039	.00010	K709-01J
136	K709-01M	5.7601	2.6317	.57280	.56572	.50855	.88099	.54361	135.39	.51294	.48157	K709-01M
137	K709-01S	5.6997	2.6442	.57078	.55402	.50298	.89774	.53469	134.41	.50933	.47202	K709-01S
138	CCV12	102.45	1.4586	1.0393	2.0465	1.5096	2.4079	2.0660	76.367	2.4380	.92520	CCV12
139	CCB12	.00828	.00925	.00215	.00024	.00015	.00147	.00004	.38262	.00017	.00011	CCB12
140	IPL004WB	.00432	.00283	.00224	.00036	.00002	-.00410	.00004	.01371	.00010	.00013	IPL004WB
141	IPL004WL	5.5236	2.5282	.54149	.51250	.51353	.49849	.53541	52.950	.50458	.46973	IPL004WL
142	IPL004WC	5.4251	2.6043	.53215	.50878	.50833	.50853	.53056	51.490	.49998	.46790	IPL004WC
143	K307-07A	5.6184	2.4993	.57911	.85548	.50829	.53456	.53176	119.07	.49972	.46969	K307-07A
144	K307-07	.05920	.00828	.03530	.35231	.00029	.03693	.00047	71.215	.00233	.00234	K307-07
145	K307-07J	.01255	.00461	.00849	.07133	.00018	.00676	.00017	14.371	.00070	.00066	K307-07J
146	K307-09	.01849	.00111	.04706	.37147	.00010	.03621	.00028	70.862	.00079	.00323	K307-09
147	K307-11	.63538	.00202	.00188	.17811	.00021	.11887	.00068	120.18	.00589	.00089	K307-11
148	K309-03	.37269	-.00026	.00504	.01738	.00017	.02952	.00011	10.742	.00384	.00037	K309-03
149	K309-04	.08052	.00068	.00185	.02013	.00011	.04068	.00012	15.802	.01744	.00014	K309-04
150	CCV13	102.59	1.4528	1.0384	2.0457	1.5076	2.3949	2.0674	76.194	2.4243	.92358	CCV13
151	CCB13	.00035	.00490	.00117	-.00030	-.00002	.00065	-.00005	-.01429	-.00004	.00011	CCB13
152	K309-05	.07396	.00202	.00290	.02048	.00003	.04226	.00005	16.119	.01907	.00013	K309-05
153	K280-01	.05425	-.00112	.00430	.19060	.00002	.30367	.00005	48.919	.08942	-.00013	K280-01
154	K280-01M	5.6528	2.5761	.55788	.69727	.50644	.80469	.53203	96.476	.58355	.46435	K280-01M
155	K280-01S	5.8358	2.6609	.57434	.72185	.52425	.82328	.55138	100.06	.60367	.48251	K280-01S
156	K280-02	.00665	.00537	.00171	-.00016	-.00001	-.00432	-.00003	.04761	.00009	.00000	K280-02
157	K280-03	.01710	.00030	.00414	.08549	.00005	.29847	.00008	43.413	.14423	-.00029	K280-03
158	K280-01	.01525	-.00009	.00448	.18559	.00005	.29101	.00005	48.467	.08798	-.00019	K280-01
159	K280-01M	5.7171	2.6262	.56740	.71169	.51764	.80855	.54669	99.729	.59179	.47644	K280-01M
160	K280-01S	5.7739	2.6695	.57281	.71401	.51939	.81883	.55055	100.42	.59331	.47971	K280-01S
161	K280-02	.00682	.00662	.00158	.00066	.00006	-.00421	.00003	.04384	.00004	.00008	K280-02
162	CCV14	102.09	1.4587	1.0329	2.0416	1.5010	2.3913	2.0659	76.259	2.4120	.92246	CCV14
163	CCB14	-.00105	.00548	.00078	-.00018	.00002	.00105	-.00005	-.01591	-.00001	.00009	CCB14
164	K280-03	.01337	.00118	.00326	.08238	.00004	.28851	.00003	41.963	.13889	-.00031	K280-03
165	K278-12	.00399	.00084	.00161	.00001	.00002	-.00460	-.00006	.03511	.00011	.00005	K278-12

166	ICSA3	380.44	.00886	.00190	.00103	.00007	.00388	-.00112	474.72	.00157	-.00051	ICSA3
167	ICSAB3	383.58	1.0081	1.0581	.53714	.48965	.47332	1.0356	471.93	.46044	.44947	ICSAB3
168	CCV15	102.32	1.4551	1.0350	2.0430	1.5001	2.3815	2.0666	76.120	2.4021	.92313	CCV15
169	CCB15	-.00151	.00469	.00125	-.00025	.00001	.00074	-.00005	-.01332	.00003	.00000	CCB15
170	WTK009SB	.02228	-.00490	.00472	.04695*	-.00003	.01336	-.00014	.05829	.00321	.00007	WTK009SB
171	K173-05A	7.7734	2.7325	.68318	.79856	.48501	.52038	.55531	72.969	.61138	.48707	K173-05A
172	K173-05	2.1164	.00196	.00803	.28751	.00045	.01006	.00472	25.336	.09982	.01213	K173-05
173	K173-05J	.41428	.00148	.00286	.05680	.00007	.00192	.00088	5.1827	.02003	.00245	K173-05J
174	CCV16	102.21	1.4543	1.0400	2.0517	1.4982	2.3922	2.0631	76.272	2.4208	.92215	CCV16
175	CCB16	-.00133	.00473	.00156	-.00033	-.00001	.00074	-.00009	-.01515	-.00005	.00008	CCB16
176	IPL009SB	-.00017	.00357	-.00006	.00008	.00011	-.00467	-.00005	.01713	.00030	.00014	IPL009SB
177	IPL009SL	5.0671	2.4118	.51375	.50811	.50633	.44813	.53709	51.526	.49883	.47572	IPL009SL
178	IPL009SC	5.1376	2.4506	.51999	.51158	.50987	.45712	.54014	51.537	.50394	.47807	IPL009SC
179	L034-01A	256.47	2.3161	.66319	5.3184	.51100	.48688	.52401	184.21	.67506	.52855	L034-01A
180	L034-01	251.41	.03360	.16730	4.9217	.00861	.05450	-.00434	138.62	.21580	.06252	L034-01
181	L034-01J	56.065	.00846	.03646	.99188	.00175	.01065	-.00182	28.979	.04661	.01275	L034-01J
182	L034-01M	265.65	2.2217	.62843	5.8078	.49463	.42825	.50450	259.51	.64046	.48878	L034-01M
183	L034-01S	245.48	2.2694	.62070	4.6867	.50460	.42942	.51631	180.38	.71107	.50968	L034-01S
184	L034-02	261.54	-.00278	.19926	5.5930	.00821	.05523	-.00501*	154.68	.17778	.04945	L034-02
185	L034-03	178.83	.03281	.10569	2.7475	.00631	.03747	-.00375	72.583	.19852	.06819	L034-03
186	CCV17	102.06	1.4613	1.0362	2.0447	1.4942	2.3669	2.0635	76.664	2.4038	.91808	CCV17
187	CCB17	-.00403	.00528	.00198	-.00028	-.00001	.00063	-.00008	-.01510	-.00003	.00007	CCB17
188	K288-05	27.264	.00880	.02000	.13889	.00160	.00318	.00239	8.0718	.19010	.01448	K288-05
189	K288-10	30.339	.00288	.01715	.13135	.00139	.00218	-.00014	6.4470	.14058	.01293	K288-10
190	K360-02	77.098	.01712	.11135	1.3544	.00882	.02358	.16458	31.725	.30004	.12104	K360-02
191	L046-07	81.709	-.00541	.02546	.96349	.00343	.01776	-.00171	32.475	.13995	.06803	L046-07
192	K574-08	.00365	.00762	-.00031	.00051	-.00008	.28907	.00006	1.7955	.00044	.00011	K574-08
193	K574-10	.00519	.00068	.00027	.00025	.00005	-.00408	.00229	.98134	.00054	.00012	K574-10
194	K574-13	-.00316	.00262	.00144	.00703	-.00015	.15869	-.00014	2.4065	.00029	.00001	K574-13
195	K574-14	.18686	.00163	.00073	.86991	.00137	-.00370	.00061	1.2815	.00095	.08134	K574-14
196	CCV18	103.80	1.4658	1.0565	2.0656	1.4969	2.4407	2.0591	76.254	2.4768	.92268	CCV18
197	CCB18	.00086	.00990	.00650*	-.00009	.00000	.00282	-.00043	-.01274	.00080	-.00040	CCB18
198	K360-01	56.126	.01975	.08813	.76896	.00709	.01286	.28306	43.209	.26603	.04653	K360-01
199	K360-02	64.933	.01484	.08303	2.3781	.00753	.01008	.16581	28.232	.16119	.12999	K360-02
200	K360-03	47.922	.00601	.05210	.76292	.00457	.00487	.00560	16.646	.13792	.04839	K360-03
201	K360-04	65.115	.00578	.06249	1.0126	.00533	.00618	-.00003	16.866	.15298	.08835	K360-04
202	K360-05	94.341	.00876	.08229	1.0225	.00885	.01559	.01231	33.546	.26206	.07979	K360-05
203	K360-06	105.05	.00855	.08631	1.5319	.01031	.00988	.00448	31.704	.18562	.13217	K360-06
204	CCV19	103.71	1.4769	1.0680	2.0788	1.5036	2.4835	2.0603	76.551	2.5312	.92542	CCV19
205	CCB19	.00216	.00486	.00101	-.00025	.00001	.00124	-.00006	-.01464	.00004	.00016	CCB19
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00142	.00003	.00010	.00005	.00000	.00002	.00024	-.00039	-.00017	.00000	Blank
2	S20			.19650			.09563					S20
3	S21			1.9496			.94039					S21
4	S22	.36623	.06115									S22
5	S23	3.5488	2.3302									S23
6	S24							.74430				S24
7	S25							7.4449				S25
8	S26								.83095	.38531		S26
9	S27								7.5449	3.7306		S27
10	S28					.09261						S28
11	S29					.37639						S29
12	S30				.03149						.00157	S30
13	S31				.15712						.00629	S31
14	ICV	2.5379	24.308	2.3922	.52129	57.896	2.3789	2.4961	2.4751	59.988	1.0352	ICV
15	ICB	-.00021	-.00521	-.00037	.00020	.00210	.00004	.00213	-.00017	.00862	.00055	ICB
16	MRLL031	.01067	.21637	.01038	.00993	.99900	.01129	.01105	.01078	.99632	.00992	MRLL031
17	MRLL032	.01075	.10390	.00261	.10254	.20915	.00560	.01040	.01060	.99611	.00935	MRLL032
18	ICSA1	.00213	188.56	-.00018	.00562	193.52	.00096	-.00158	-.00072	.05876	.00069	ICSA1
19	ICSAB1	.54219	188.10	.92781	1.1112	193.30	.46279	1.0326	.98322	79.988	1.0871	ICSAB1
20	CCV1	2.5556	24.964	2.3824	.52192	56.912	2.3449	2.5138	2.4806	59.636	1.0515	CCV1
21	CCB1	.00000	-.00430	-.00037	-.00030	.00792	.00002	.00203	-.00018	.00296	-.00026	CCB1
22	IPK031WQ	.00032	.00153	-.00025	-.00046	.00562	.00012	.00026	.00030	.01315	.00015	IPK031WQ
23	IPK031WX	.54093	5.5295	.51882	.00039*	49.879	.50501	.52517	.53461	52.157	.55756	IPK031WX
24	IPK031WY	.52559	5.4065	.51007	-.00025*	49.199	.49605	.51416	.52445	51.298	.54793	IPK031WY
25	K134-01A	.53010	5.2867	.51629	.03595	118.40	.49495	.51330	.51541	52.523	.55715	K134-01A
26	K134-01W	.00433	-.00064	.01863	.03488	71.616	.01140	.00216	.00159	1.4006	.01042	K134-01W
27	K134-01J	.00087	-.00230	.00335	.00676	14.249	.00250	.00055	.00023	.27542	.00298	K134-01J
28	K134-02W	.00029	.00169	-.00042	-.00061	.00441	.00015	-.00007	.00029	.01061	.00038	K134-02W
29	K134-03W	.00030	-.00102	-.00042	-.00044	.01194	.00033	-.00013	.00075	-.00706	-.00089	K134-03W
30	K134-04W	.00192	-.01136	.01776	.02704	55.945	.00499	.00104	.00171	1.2441	.00951	K134-04W
31	CCV2	2.5187	24.829	2.3889	.51782	56.785	2.3195	2.5269	2.4787	59.067	1.0309	CCV2
32	CCB2	-.00005	-.00291	-.00039	.00037	.00357	.00003	.00182	-.00007	.01304	-.00022	CCB2
33	K134-01W	.00336	-.01595	.01701	.03442	71.795	.01143	.00181	.00175	1.3198	.01026	K134-01W
34	K134-02W	.00029	-.00316	-.00017	-.00018	.00412	.00001	-.00001	.00026	.00417	.00014	K134-02W
35	K134-03W	.00022	-.00217	.00019	-.00029	.00389	.00014	-.00001	.00025	-.00089	-.00090	K134-03W
36	K134-04W	.00175	.00509	.01717	.02652	56.278	.01194	.00092	.00196	1.2324	.00939	K134-04W
37	K270-02	.00165	.00049	.02684	.01894	6.1125	.00053	.00249	.00472	2.9514	.00239	K270-02
38	K270-04	.00119	-.00059	.03489	.00527	7.6776	.24331	.00176	.00350	.55760	-.00013	K270-04
39	K270-05	.00122	.00042	.03419	.00545	7.2109	.23485	.00169	.00356	.54753	-.00018	K270-05
40	K270-06	.00098	-.00433	.02619	.00727	1.1123	.00025	.00011	.00030	1.2654	.00280	K270-06
41	CCV3	2.5351	25.058	2.3787	.52028	57.267	2.3404	2.5006	2.4714	59.328	1.0418	CCV3
42	CCB3	-.00009	-.00531	-.00029	.00004	.00559	.00003	.00195	-.00015	.02418	.00003	CCB3
43	IPK057WB	.00033	-.00461	.00015	-.00077	.00321	.00006	.00018	.00023	.00422	-.00058	IPK057WB
44	IPK057WL	.51326	5.3809	.50394	-.00027*	51.074	.48806	.49563	.51417	52.363	.54105	IPK057WL
45	IPK057WC	.52319	5.4728	.51505	.00011*	50.648	.49785	.51305	.52559	51.803	.54782	IPK057WC
46	K236-01A	.51791	5.2678	.53386	.00480	51.533	.48645	.50153	.51224	51.041	.53569	K236-01A
47	K236-01	.00063	.00544	.03278	.00436	3.0476	.00023	.00187	.00019	.47018	-.00004	K236-01
48	K236-01J	.00004	.00107	.00584	.00062	.62504	.00005	.00074	-.00009	.10795	-.00052	K236-01J
49	K236-03	.00137	.00478	.02890	.00946	3.2487	.00035	.00168	.00044	.94340	.00322	K236-03
50	K234-02	.00089	.01531	.02060	.00634	1.6502	.00026	.01370	.00021	1.9576	.00171	K234-02
51	K234-03	.00085	-.00056	.02035	.00645	1.6040	.00005	.01266	.00021	1.8704	.00221	K234-03
52	K234-04	.00070	.00084	.03078	.00698	.81867	.00027	.00023	.00030	.88321	.00054	K234-04
53	CCV4	2.4988	24.821	2.3927	.51714	57.512	2.3283	2.5169	2.4725	59.000	1.0338	CCV4

54	CCB4	-.00009	-.00539	-.00007	-.00013	-.00012	.00006	.00210	-.00029	.03567	.00010	CCB4
55	IPK062WB	-.00009	-.00137	-.00007	-.00018	.00609	.00015	.00050	-.00026	.00072	.00018	IPK062WB
56	IPK062WL	.48881	5.1454	.48106	.00009*	47.977	.46584	.47738	.48961	48.975	.51302	IPK062WL
57	IPK062WC	.50370	5.2154	.48810	.00005*	48.481	.47675	.48976	.49913	49.422	.53069	IPK062WC
58	K294-01A	.51556	7.6523	.51720	.03175	94.161	1.3637	.51373	.50418	52.750	.53158	K294-01A
59	K294-01	.00091	2.5287	.02501	.03078	46.723	.90579	.01345	.00092	2.2500	-.00037	K294-01
60	K294-01J	.00009	.51357	.00443	.00566	9.4753	.18631	.00301	-.00010	.44964	-.00066	K294-01J
61	K294-01M	.51912	7.6634	.51788	.03254	96.989	1.3834	.52871	.50955	54.067	.53176	K294-01M
62	K294-01S	.52754	7.7397	.51992	.03225	96.914	1.3848	.52658	.51130	54.720	.54152	K294-01S
63	K294-02	.00201	-.00696	.02305	.02214	36.095	.00191	.01234	.07037	1.7762	.03873	K294-02
64	K294-03	.00133	-.00639	.02445	.02759	38.322	.00019	.03877	.00103	1.7113	.00843	K294-03
65	CCV5	2.5364	25.163	2.3796	.52166	58.566	2.3738	2.4709	2.4596	59.845	1.0520	CCV5
66	CCB5	-.00016	-.00600	-.00005	.00051	-.00198	-.00007	.00221	-.00019	.02714	.00056	CCB5
67	IPK057WX	.48357	5.0958	.47555	.00041*	49.329	.47455	.51372	.49809	48.983	.49382	IPK057WX
68	IPK057WY	.49208	5.1949	.48333	.00008*	49.421	.48374	.51685	.50747	49.080	.50027	IPK057WY
69	K294-04	.00104	-.01340	.02285	.02961	43.950	.00307	.01220	.09395	3.0738	.00033	K294-04
70	K294-05	.00102	-.00648	.02027	.02617	40.871	.00050	.03911	.00045	4.3734	.00632	K294-05
71	K294-06	.00096	-.00777	.02748	.00619	26.955	.00014	.06866	.00024	.87726	.00749	K294-06
72	K234-07	.00084	-.00571	.02476	.01190	16.674	.00010	.01269	.00070	1.2167	.00718	K234-07
73	ICSA2	.00178	187.89	-.00159	.00639	194.53	.00093	-.00144	-.00078	.10689	.00054	ICSA2
74	ICSAB2	.51611	185.33	.90478	1.0740	194.69	.45646	.98903	.94833	77.926	1.0557	ICSAB2
75	CCV6	2.5313	25.122	2.3767	.52241	58.613	2.3771	2.4680	2.4535	59.973	1.0494	CCV6
76	CCB6	-.00019	-.00490	-.00037	.00012	-.00468	.00002	.00231	-.00016	.03540	.00015	CCB6
77	IPK063WB	.00008	-.00398	-.00004	-.00054	.00968	.00013	.00015	.00008	.01155	-.00125	IPK063WB
78	IPK063WL	.48638	5.1025	.47560	.00038*	48.835	.47676	.50225	.50024	48.486	.48851	IPK063WL
79	IPK063WC	.47903	5.0114	.46734	-.00019*	47.956	.47061	.49793	.49162	47.646	.48282	IPK063WC
80	K267-01A	.52041	5.3624	.50674	.03523	125.40	.49902	.49279	.50383	52.453	.55042	K267-01A
81	K267-01	.00076	.01526	.01569	.03440	75.872	.00231	.00348	.00043	.53151	.00537	K267-01
82	K267-01J	.00033	.01171	.00291	.00636	15.055	.00080	.00085	.00017	.12476	.00127	K267-01J
83	K237-01	.00048	.00021	.02896	.00669	2.8541	.00091	.00554	.12746	1.2260	.00324	K237-01
84	K237-02	.00060	-.00069	.03010	.00669	2.8770	.00091	.00552	.12664	1.2455	.00395	K237-02
85	K237-03	.00134	.01163	.03230	.01406	3.4143	.01211	.00825	1.0439	1.1264	.00147	K237-03
86	CCV7	2.5853	25.280	2.3718	.52721	58.974	2.4029	2.4506	2.4591	60.443	1.0678	CCV7
87	CCB7	-.00027	-.00386	.00009	.00009	.00546	.00006	.00205	-.00020	.02210	.00014	CCB7
88	K267-01M	.53557	5.4911	.51788	.03707	129.59	.50770	.50933	.51559	54.090	.56460	K267-01M
89	K267-01S	.52585	5.3489	.50357	.03544	125.28	.49653	.49908	.50371	52.681	.54921	K267-01S
90	K267-02	.00018	-.00421	-.00007	-.00068	-.00004	.00019	.00085	.00017	.02788	-.00116	K267-02
91	K267-03	.00125	-.01426	.01377	.03577	83.024	.00139	.00148	.00016	.77696	.01228	K267-03
92	K267-04	.00051	-.00074	.01477	.02865	62.294	.00190	.00284	.00031	.42166	.00744	K267-04
93	K267-05	.00061	.00081	.01614	.02899	64.127	.00191	.00292	.00063	.46874	.00682	K267-05
94	K267-01	.00093	-.01162	.01590	.03563	77.989	.00077	.00243	.00036	.56712	.00570	K267-01
95	K267-02	.00013	-.00370	.00024	-.00068	.01282	.00019	-.00013	.00004	.02926	-.00038	K267-02
96	K267-03	.00100	-.00496	.01641	.03749	87.572	.00232	.00117	.00052	.86888	.01351	K267-03
97	K267-04	.00084	-.01319	.01574	.02881	62.172	.00021	.00276	.00020	.47746	.00849	K267-04
98	CCV8	2.5653	25.180	2.3720	.52734	59.724	2.4090	2.4436	2.4552	60.574	1.0585	CCV8
99	CCB8	-.00030	-.00356	-.00012	-.00018	-.00211	.00018	.00192	-.00013	.02346	.00042	CCB8
100	K267-05	.00047	-.01125	.01531	.02942	63.832	.00014	.00320	-.00001	.41355	.00726	K267-05
101	K262-17	.00123	-.00035	-.00010	-.00041	.00078	.00023	.00002	.00012	.00666	-.00097	K262-17
102	K271-01	.00044	.00335	.02000	.00767	4.3901	.00030	.00218	.00052	1.5131	.00043	K271-01
103	K271-02	.00068	.00225	.03006	.00559	2.4272	.00039	.00143	.00023	1.4400	.00083	K271-02
104	K271-03	.00067	-.00153	.03460	.01531	7.0790	.00032	.00117	.00147	1.1221	.00152	K271-03
105	K271-04	.00048	-.00465	.02457	.00548	1.4788	.00018	.00352	.00007	.80370	.00132	K271-04
106	K271-05	.00034	-.00135	.02474	.00479	1.2033	.00028	.00094	.00022	.93594	-.00019	K271-05
107	CCV9	2.5245	24.952	2.3805	.52659	59.717	2.3921	2.4537	2.4505	60.145	1.0427	CCV9
108	CCB9	-.00028	-.00389	-.00023	.00035	.00397	-.00007	.00194	-.00015	.01951	-.00002	CCB9
109	IPK056WB	-.00026	.00414	-.00044	-.00040	.00434	.00024	.00050	-.00001	.01334	-.00047	IPK056WB

110	IPK056WL	.47524	4.9426	.46750	.00006*	48.036	.46978	.48989	.48879	47.493	.47618	IPK056WL
111	IPK056WC	.48242	4.9892	.46685	.00020*	48.074	.47100	.48890	.48907	48.057	.48588	IPK056WC
112	K211-02A	.62388	7.0220	.50809	.18363	327.02	.50173	.50131	.62226	73.519	.70503	K211-02A
113	K211-02	.05885	1.9240	.02988	.18481	283.74	.02126	.00055	.13071	16.647	.09437	K211-02
114	K211-02J	.01137	.38892	.00505	.03382	55.505	.00440	.00011	.02660	3.0235	.01736	K211-02J
115	K211-02M	.64294	7.2343	.51194	.19224	337.48	.50748	.51522	.63453	75.202	.72693	K211-02M
116	K211-02S	.63803	7.2866	.51141	.19195	336.81	.50532	.51734	.63236	75.082	.72709	K211-02S
117	K211-03	.05391	.82898	.02966	.18002	276.93	.01788	.00070	.12244	16.068	.09866	K211-03
118	K211-04	.01249	.08336	.03207	.17069	328.24	.11363	.00135	.08704	15.410	.05594	K211-04
119	CCV10	2.4785	24.983	2.3658	.52294	59.110	2.3304	2.4334	2.4255	59.987	1.0347	CCV10
120	CCB10	-.00035	-.00452	-.00003	.00003	.00306	-.00014	.00188	-.00013	.12075	.00000	CCB10
121	K211-05	.01117	-.01165	.03393	.18862	360.73	.12052	.00199	.09461	16.587	.06033	K211-05
122	K240-02	.00046	.09229	.01277	.04352	59.720	1.7213	.01285	.00405	.89679	.00006	K240-02
123	K240-03	.00082	.09446	.01239	.04352	59.424	1.7166	.01272	.00436	.85102	.00015	K240-03
124	K240-04	.00174	.02953	.00970	.04314	48.313	.96308	.01585	.01005	.73765	.00024	K240-04
125	K240-05	.00065	.01993	.01456	.04760	57.924	.87971	.00610	.00774	.61912	.00006	K240-05
126	K236-02	.00169	.00311	.02584	.01211	5.8208	.00065	.00426	.00047	1.7743	-.00110	K236-02
127	CCV11	2.4688	24.996	2.3685	.52392	59.074	2.3107	2.4372	2.4280	60.026	1.0301	CCV11
128	CCB11	-.00036	-.00226	.00024	.00006	-.00322	.00016	.00195	-.00015	.05380	-.00006	CCB11
129	IPK064WB	.00008	-.00660	.00000	-.00030	.00449	-.00002	.00015	.00012	.04516	-.00142	IPK064WB
130	IPK064WL	.50866	5.4148	.50190	.00049*	52.861	.48414	.48201	.50729	53.664	.54202	IPK064WL
131	IPK064WC	.51513	5.4989	.51218	.00028*	52.538	.49385	.50023	.51765	53.204	.54836	IPK064WC
132	K709-01A	1.0243	10.488	.99180	.00705	84.613	.98402	.98159	1.0016	67.501	1.0882	K709-01A
133	K709-01	.00887	.00423	.01021	.00662	35.493	.03101	.00573	.00182	15.705	.00048	K709-01
134	K709-01D	.00877	-.00012	.01073	.00653	36.072	.02992	.00440	.00159	16.056	-.00091	K709-01D
135	K709-01J	.00167	.00213	.00200	.00147	6.9699	.00653	.00111	.00043	2.9688	-.00024	K709-01J
136	K709-01M	.53834	5.3361	.50593	.00758	86.407	.51012	.51820	.51429	69.748	.55220	K709-01M
137	K709-01S	.53025	5.3129	.49932	.00734	85.399	.50358	.50862	.50485	69.092	.55218	K709-01S
138	CCV12	2.4856	24.972	2.3683	.52695	58.704	2.2962	2.4386	2.4313	60.349	1.0342	CCV12
139	CCB12	-.00005	.00113	.00031	.00000	.00114	.00037	.00226	.00004	.05483	-.00056	CCB12
140	IPL004WB	-.00011	.00012	-.00020	-.00056	.00702	.00016	.00026	.00053	.04244	-.00085	IPL004WB
141	IPL004WL	.50350	5.3500	.49843	.00062*	51.337	.47658	.49338	.50546	52.462	.52959	IPL004WL
142	IPL004WC	.49845	5.2789	.49301	.00047*	49.930	.47412	.51537	.50284	50.973	.51792	IPL004WC
143	K307-07A	.50679	6.1628	.50161	.00926	64.434	1.5118	.49417	.50386	53.414	.53156	K307-07A
144	K307-07	.00207	.94776	.00801	.00872	15.766	1.0718	.00674	.00385	2.1825	-.00058	K307-07
145	K307-07J	.00025	.19223	.00170	.00160	3.1723	.21861	.00150	.00072	.43365	-.00025	K307-07J
146	K307-09	.00125	1.4236	.00805	.00819	15.542	1.2925	.00598	.00431	2.1500	.00008	K307-09
147	K307-11	.01171	.75078	.02044	.05541	62.926	.06643	.00069	.00302	21.235	-.00143	K307-11
148	K309-03	.00240	.21881	.00621	.00854	1.6619	.02013	.00775	.00494	2.3979	.00121	K309-03
149	K309-04	.00143	.03225	.00752	.01274	3.2572	.00268	.02253	.00191	3.3849	.00198	K309-04
150	CCV13	2.4750	24.918	2.3714	.52755	58.439	2.2784	2.4398	2.4280	60.301	1.0309	CCV13
151	CCB13	-.00032	-.00289	-.00025	-.00009	.00636	-.00005	.00196	-.00025	.02474	-.00052	CCB13
152	K309-05	.00093	.03099	.00777	.01207	3.3306	.00254	.02278	.00094	3.3743	.00093	K309-05
153	K280-01	.00052	.02183	.01343	.03885	108.50	.00277	.00167	.00025	.62886	.01045	K280-01
154	K280-01M	.51243	5.2600	.50227	.03822	153.65	.47234	.49636	.49815	53.309	.55084	K280-01M
155	K280-01S	.53003	5.4392	.51866	.03989	159.28	.48529	.51966	.51680	54.857	.56447	K280-01S
156	K280-02	-.00014	-.00175	-.00018	-.00043	.00702	.00017	.00053	-.00002	.02972	.00068	K280-02
157	K280-03	.00052	-.01786	.01298	.03652	103.78	.00030	.00266	.00022	.55971	.01228	K280-03
158	K280-01	.00065	-.01685	.01348	.03798	107.11	.00019	.00161	.00003	.62625	.00941	K280-01
159	K280-01M	.51826	5.3398	.51585	.03964	158.41	.47723	.51275	.51045	54.693	.55483	K280-01M
160	K280-01S	.52073	5.3889	.51920	.03939	159.44	.47922	.51738	.51391	54.740	.56430	K280-01S
161	K280-02	.00012	.00536	.00003	-.00074	.01104	.00022	.00057	.00010	.02589	-.00087	K280-02
162	CCV14	2.4637	24.913	2.3714	.52757	58.197	2.2602	2.4471	2.4269	60.410	1.0305	CCV14
163	CCB14	-.00026	-.00448	-.00005	.00020	-.00657	.00060	.00195	-.00020	.02375	-.00077	CCB14
164	K280-03	.00059	-.01591	.01270	.03595	99.686	.00015	.00275	.00021	.53444	.01168	K280-03
165	K278-12	-.00005	.00221	-.00003	-.00022	-.00062	.00015	-.00003	.00014	.00545	-.00057	K278-12

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
166	ICSA3	.00160	186.22	-.00141	.00697	193.17	.00102	-.00155	-.00084	.06310	-.00141	ICSA3
167	ICSAB3	.50832	185.59	.91492	1.0993	193.06	.43559	.99787	.95241	79.298	1.0400	ICSAB3
168	CCV15	2.4582	24.883	2.3737	.52682	57.952	2.2545	2.4481	2.4272	60.405	1.0245	CCV15
169	CCB15	-.00026	-.00508	.00003	-.00028	.00390	.00003	.00204	-.00014	.02238	-.00020	CCB15
170	WTK009SB	.00117	.00290	.00027	.00320	.01063	.00007	.00027	-.00032	2.3779*	.02859*	WTK009SB
171	K173-05A	.57255	8.9487	1.2051	.00531	53.744	.82090	.51635	.51197	61.538	.77339	K173-05A
172	K173-05	.01828	3.8620	.74692	.00415	7.6756	.36914	.00069	.00642	4.5309	.02596	K173-05
173	K173-05J	.00359	.79071	.15394	.00104	1.5801	.07448	.00012	.00117	1.1293	.00491	K173-05J
174	CCV16	2.4632	25.000	2.3694	.52982	57.997	2.2317*	2.4369	2.4232	60.893	1.0317	CCV16
175	CCB16	-.00036	-.00380	-.00034	-.00007	.00109	.00010	.00193	-.00023	.15121	.00022	CCB16
176	IPL009SB	-.00026	.00628	-.00024	-.00005	.00353	.00038	.00105	.00023	.11182	.00069	IPL009SB
177	IPL009SL	.48841	5.2244	.48953	.00086*	49.257	.45719	.51403	.50950	50.861	.49617	IPL009SL
178	IPL009SC	.49403	5.2717	.49344	.00043*	49.132	.45938	.51705	.51230	51.067	.50090	IPL009SC
179	L034-01A	.65613	167.21	1.3917	.08085	100.51	2.7349	.50279	.55923	60.044	.49601	L034-01A
180	L034-01	.16231	167.29	.94285	.08049	53.186	2.3554	.00379	.06548	7.7103	.00779	L034-01
181	L034-01J	.03267	36.704	.19605	.01564	10.852	.48749	.00050	.01316	1.5302	.00133	L034-01J
182	L034-01M	.60765	181.64	1.3069	.08283	103.97	2.4574	.49121	.54138	57.153	.45509	L034-01M
183	L034-01S	.64406	190.63	1.5944	.09884	91.083	2.4335	.49883	.54832	56.672	.47014	L034-01S
184	L034-02	.11420	163.85	.67440	.09443	57.574	1.9584	.00447	.04764	7.2558	.00789	L034-02
185	L034-03	.14693	246.21	.56655	.07090	29.508	2.0308	.00449	.06281	8.8752	.00650	L034-03
186	CCV17	2.4220	25.094	2.3702	.52581	58.161	2.2097*	2.4383	2.4153	60.548	1.0245	CCV17
187	CCB17	-.00030	-.00545	.00009	.00009	.00544	-.00001	.00192	-.00017	.01537	-.00014	CCB17
188	K288-05	.03193	51.357	.59172	.01635	5.8575	.50111	.00369	.05830	2.6438	.00074	K288-05
189	K288-10	.02148	48.198	.08966	.01530	5.1013	.36729	.00329	.05791	2.9524	.00069	K288-10
190	K360-02	.17944	229.31	1.3093	.03036	10.030	7.5391	.01005	.10998	5.4062	.00580	K360-02
191	L046-07	.18126	164.60	.04553	.05662	39.983	1.3081	.00387	.06570	24.531	.00124	L046-07
192	K574-08	.02605	.53997	.01805	.00027	.07415	.00117	.31340	.00014	.01354	.00017	K574-08
193	K574-10	.04313	.04968	.00147	-.00028	.00426	.00083	.00114	.00037	-.00055	.00065	K574-10
194	K574-13	.00619	.11911	.00307	-.00013	.00264	.00062	.54139	-.00007	-.00165	-.00075	K574-13
195	K574-14	.29875	.56161	.00203	-.00009	.04808	.00747	.00108	.00221	.03764	.00182	K574-14
196	CCV18	2.5146	25.217	2.3623	.53441	57.752	2.2359*	2.4181	2.4213	61.469	1.0468	CCV18
197	CCB18	-.00090	.01665	.00344	-.00033	.00393	.00042	.00208	.00020	.00098	.00249	CCB18
198	K360-01	.39437	158.81	1.6611	.02322	14.616	3.0320	.00638	.10516	4.9574	.00822	K360-01
199	K360-02	.12815	142.55	.91773	.02570	8.3350	13.100	.00606	.07948	4.1462	.00575	K360-02
200	K360-03	.04944	102.86	.16674	.02206	3.9078	3.5796	.00416	.05908	3.9712	.00384	K360-03
201	K360-04	.03806	121.46	.16685	.02709	4.7842	5.2248	.00527	.05049	4.7575	.00376	K360-04
202	K360-05	.08580	178.02	.79907	.03696	6.9619	3.3021	.00417	.10298	5.8403	.00468	K360-05
203	K360-06	.06325	191.09	.67470	.03827	6.6506	8.9240	.00506	.12594	5.0879	.00374	K360-06
204	CCV19	2.5502	25.417	2.3612	.53666	58.228	2.2578	2.4104	2.4250	61.826	1.0623	CCV19
205	CCB19	-.00040	-.00285	-.00028	.00022	.00293	.00004	.00188	-.00026	-.01302	.00058	CCB19

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00012	.00104	-.00004	-.00023	.00017	.00002	-.00012	.00201	Blank
2	S20									S20
3	S21									S21
4	S22							.15453		S22
5	S23							1.5111		S23
6	S24		1.1948							S24
7	S25		6.9603							S25
8	S26									S26
9	S27									S27
10	S28				.13247					S28
11	S29				1.2733					S29
12	S30	.04541		.14220		.02436	.01534		.60317	S30
13	S31	.22671		.70864		.11696	.07597		5.8068	S31
14	ICV	.49265	62.680	.49147	2.3571	.49469	.49645	1.4429	2.6258	ICV
15	ICB	.00011	.00975	-.00006	.00000	-.00026	.00033	-.00001	-.00163	ICB
16	MRLL031	.01037	1.0719	.01072	.01085	.00011	.01049	.01055	.01247*	MRLL031
17	MRLL032	.00971	.54431	.01065	.01029	.00963	.01007	.01041	.01093	MRLL032
18	ICSA1	.00030	.06559	.02080	-.00258	.00093	.00134	-.00009	-.00085	ICSA1
19	ICSAB1	1.0956	83.532	.51811	.91200	.99607	.98708	.49126	1.0474	ICSAB1
20	CCV1	.49577	62.500	.49101	2.3881	.50913	.49169	1.4855	2.6128	CCV1
21	CCB1	-.00002	.01563	-.00002	.00044	-.00005	.00009	.00005	-.00173	CCB1
22	IPK031WQ	.00017	.01159	.00010	.00095	-.00070	.00006	.00001	-.00024	IPK031WQ
23	IPK031WX	.53619	54.645	.49605	.52563	.52597	.52247	.53983	.55869	IPK031WX
24	IPK031WY	.52232	53.686	.48591	.51875	.51786	.51743	.52510	.54751	IPK031WY
25	K134-01A	.51899	148.28	.96301	.50081	.51103	.50146	.52691	.60385	K134-01A
26	K134-01W	.00002	98.624	.49787	.00045	-.00053	.00069	.00986	.06287	K134-01W
27	K134-01J	.00001	19.647	.10045	.00014	.00013	-.00008	.00196	.01286	K134-01J
28	K134-02W	.00010	.02962	.00010	.00052	-.00063	.00012	.00023	-.00013	K134-02W
29	K134-03W	.00005	.01995	.00008	.00025	-.00102	.00005	.00018	.00072	K134-03W
30	K134-04W	.00006	94.728	.33481	-.00001	-.00061	.00035	.01322	.06962	K134-04W
31	CCV2	.48820	62.092	.48413	2.3999	.51503	.48944	1.4784	2.6136	CCV2
32	CCB2	.00003	.03202	-.00001	.00027	.00053	-.00021	.00007	-.00157	CCB2
33	K134-01W	.00007	97.486	.48710	.00071	-.00102	.00065	.00993	.04649	K134-01W
34	K134-02W	.00009	.04151	.00011	.00025	-.00059	-.00026	.00004	.00252	K134-02W
35	K134-03W	.00023	.02605	.00003	.00025	-.00088	.00016	.00020	-.00033	K134-03W
36	K134-04W	.00000	93.686	.33249	-.00015	-.00094	.00034	.01318	.07587	K134-04W
37	K270-02	-.00018	194.05	.33034	-.00017	-.00130	.00088	.00241	.00054	K270-02
38	K270-04	-.00003	47.153	.16772	.00000	-.00125	.00125	.00523	.00056	K270-04
39	K270-05	.00020	46.210	.15983	-.00001	-.00113	.00088	.00553	.00003	K270-05
40	K270-06	-.00007	63.529	.07420	.00055	-.00130	.00126	.00323	.00020	K270-06
41	CCV3	.49413	62.393	.48650	2.3787	.50848	.49355	1.4868	2.6231	CCV3
42	CCB3	.00011	.05938	-.00011	.00011	.00002	-.00013	.00012	-.00166	CCB3
43	IPK057WB	.00013	.01351	-.00005	.00115	-.00103	-.00022	.00005	-.00206	IPK057WB
44	IPK057WL	.37020*	54.619	.47322	.51453	.50016	.50783	.52024	.54681	IPK057WL
45	IPK057WC	.37769*	54.151	.48752	.52549	.52088	.52441	.53055	.55801	IPK057WC
46	K236-01A	.49301	96.080	.55084	.50366	.50323	.50627	.52461	.54302	K236-01A
47	K236-01	.00002	44.764	.08081	.00001	.00267	.00124	.01138	-.00082	K236-01
48	K236-01J	.00002	8.8072	.01604	-.00030	.00105	-.00002	.00232	-.00177	K236-01J
49	K236-03	.00009	74.293	.10423	.00015	-.00097	.00113	.00859	.00188	K236-03
50	K234-02	-.00007	23.847	.08791	-.00009	-.00112	.00051	.00444	.00218	K234-02
51	K234-03	-.00003	22.966	.08431	.00019	-.00092	.00060	.00448	.00159	K234-03
52	K234-04	.00001	41.484	.06835	-.00054	-.00167	.00076	.00368	.00037	K234-04
53	CCV4	.48449	62.057	.48255	2.3908	.51440	.49251	1.4720	2.6312	CCV4

54	CCB4	.00008	.04560	-.00002	.00034	-.00011	-.00025	-.00001	-.00167	CCB4
55	IPK062WB	.00010	.03346	.00001	-.00044	-.00015	-.00011	.00000	-.00168	IPK062WB
56	IPK062WL	.49256	51.162	.45540	.49227	.48776	.48982	.49721	.52197	IPK062WL
57	IPK062WC	.49948	51.932	.46661	.49550	.49467	.50357	.50327	.53103	IPK062WC
58	K294-01A	.41422	113.90	1.2253	.48992	.49152	.49782	.51120	.53914	K294-01A
59	K294-01	.00002	63.732	.76871	.00049	.00275	.00172	.00016	.00023	K294-01
60	K294-01J	.00010	12.610	.15527	-.00036	.00055	.00066	-.00012	-.00129	K294-01J
61	K294-01M	.51967	116.05	1.2516	.47749	.51217	.51834	.51033	.54652	K294-01M
62	K294-01S	.53323	117.25	1.2590	.47869	.50726	.51647	.51583	.54676	K294-01S
63	K294-02	-.00003	67.350	.71016	.00042	.00046	.00142	.00375	.00222	K294-02
64	K294-03	.00013	92.179	.62824	.00031	-.00003	.00141	.01435	.00100	K294-03
65	CCV5	.49625	62.828	.49005	2.3517	.50116	.49628	1.4808	2.6444	CCV5
66	CCB5	-.00002	.06064	-.00004	-.00010	-.00008	.00005	-.00003	-.00181	CCB5
67	IPK057WX	.46544	51.576	.46791	.46864	.52487	.50769	.49721	.54147	IPK057WX
68	IPK057WY	.47362	51.672	.46889	.47871	.52541	.50667	.50718	.55481	IPK057WY
69	K294-04	-.00011	118.49	.71236	-.00041	-.00041	.00166	.01120	-.00122	K294-04
70	K294-05	.00011	77.282	.32983	.00055	-.00142	.00092	.00223	.00294	K294-05
71	K294-06	.00008	69.165	.29237	.00004	-.00124	.00092	.02636	.00154	K294-06
72	K234-07	-.00001	53.451	.28479	-.00008	-.00116	.00113	.01443	.00168	K234-07
73	ICSA2	.00028	.19785	.02055	-.00119	.00196	.00101	-.00012	.00019	ICSA2
74	ICSAB2	1.0565	81.492	.50188	.87625	.96268	.97193	.47723	1.0348	ICSAB2
75	CCV6	.49558	62.963	.49137	2.3456	.50010	.49559	1.4765	2.6486	CCV6
76	CCB6	.00004	.04907	-.00001	.00053	-.00017	.00033	.00005	-.00194	CCB6
77	IPK063WB	.00010	.01485	-.00007	.00117	-.00119	-.00004	.00007	-.00194	IPK063WB
78	IPK063WL	.46644	51.165	.45742	.46724	.48761	.49314	.49716	.54526	IPK063WL
79	IPK063WC	.45977	50.262	.45615	.46059	.48329	.48971	.48815	.53523	IPK063WC
80	K267-01A	.48333	169.43	.89362	.48139	.48197	.50614	.52788	.55018	K267-01A
81	K267-01	.00042	119.58	.42647	-.00006	.00184	.00102	.01364	-.00035	K267-01
82	K267-01J	.00015	24.313	.08741	-.00013	.00054	.00020	.00272	.00003	K267-01J
83	K237-01	-.00010	45.601	.11263	-.00081	-.00111	.00079	.00676	.00171	K237-01
84	K237-02	.00008	46.120	.11388	-.00059	-.00088	.00070	.00671	.00169	K237-02
85	K237-03	-.00001	73.352	.13485	-.00038	-.00138	.00135	.00350	.00299	K237-03
86	CCV7	.50752	63.453	.49668	2.3267	.49152	.49468	1.4840	2.6470	CCV7
87	CCB7	-.00002	.05520	-.00002	.00009	-.00002	.00027	-.00015	-.00182	CCB7
88	K267-01M	.40094	176.05	.93652	.49004	.49474	.52569	.53606	.56424	K267-01M
89	K267-01S	.53396	170.56	.90977	.47532	.49083	.51211	.52482	.54936	K267-01S
90	K267-02	.00021	.13503	.00007	.00069	.00102	-.00031	.00004	.00714	K267-02
91	K267-03	.00005	149.35	.53760	.00058	-.00034	.00050	.01011	.00734	K267-03
92	K267-04	.00008	105.05	.41032	.00023	-.00051	.00082	.01506	.00090	K267-04
93	K267-05	.00018	109.10	.42370	.00036	-.00070	.00035	.01565	.00202	K267-05
94	K267-01	.00002	122.78	.44056	.00009	-.00084	.00044	.01382	.00178	K267-01
95	K267-02	.00009	.17227	.00003	.00026	-.00063	.00034	-.00006	.00135	K267-02
96	K267-03	.00008	157.38	.56638	.00046	-.00103	.00029	.01073	.00753	K267-03
97	K267-04	.00014	106.74	.41511	-.00004	-.00082	.00048	.01522	.00048	K267-04
98	CCV8	.50308	63.564	.49636	2.3216	.48867	.50017	1.4758	2.6517	CCV8
99	CCB8	.00003	.08691	-.00002	.00043	-.00011	.00006	-.00006	-.00183	CCB8
100	K267-05	-.00005	107.68	.41981	.00022	-.00122	.00014	.01543	.00110	K267-05
101	K262-17	.00027	.06125	.00004	.00008	-.00056	-.00006	.00015	.00153	K262-17
102	K271-01	.00011	31.864	.10947	.00025	-.00108	.00064	.00954	.00576	K271-01
103	K271-02	.00001	36.761	.08912	.00035	-.00137	.00058	.01736	.00438	K271-02
104	K271-03	-.00009	94.551	.20779	.00005	-.00096	.00080	.00248	.00234	K271-03
105	K271-04	-.00004	41.442	.06605	.00015	-.00134	.00040	.00457	.00403	K271-04
106	K271-05	.00002	34.159	.06928	.00005	-.00101	.00052	.00663	.00060	K271-05
107	CCV9	.49304	63.207	.49216	2.3288	.49269	.50104	1.4624	2.6577	CCV9
108	CCB9	.00011	.06007	-.00009	.00011	-.00005	-.00011	-.00004	-.00177	CCB9
109	IPK056WB	.00001	.04548	.00012	-.00026	-.00087	-.00028	.00016	.00236	IPK056WB

110	IPK056WL	.45894	50.019	.45410	.45744	.48441	.48856	.48084	.53047	IPK056WL
111	IPK056WC	.46773	50.639	.45819	.45748	.48414	.48819	.48399	.53010	IPK056WC
112	K211-02A	.61468	1874.4*	.97467	.44677	.47687	.50809	.51568	.70536	K211-02A
113	K211-02	.00340	1841.6*	.50468	-.00008	.00004	.00703	.00761	.14053	K211-02
114	K211-02J	.00078	441.46	.10163	-.00017	-.00012	.00123	.00130	.02805	K211-02J
115	K211-02M	.64893	1922.7*	1.0213	.45080	.48839	.52576	.52528	.71790	K211-02M
116	K211-02S	.64484	1894.9*	1.0187	.44985	.49358	.53172	.52592	.72091	K211-02S
117	K211-03	.00353	1827.8*	.49425	.00008	-.00019	.00194	.00492	.12934	K211-03
118	K211-04	.00048	1812.0*	.80013	-.00116	-.00015	.00343	.00262	.04070	K211-04
119	CCV10	.48691	63.354	.48639	2.3180	.49502	.49684	1.4566	2.6542	CCV10
120	CCB10	.00024	.34335	-.00007	.00005	-.00013	.00055	-.00004	-.00222	CCB10
121	K211-05	.00052	1982.7*	.88538	-.00158	-.00004	.00133	.00240	.04185	K211-05
122	K240-02	.00002	132.37	.77716	-.00052	-.00066	.00020	.00233	.00100	K240-02
123	K240-03	-.00011	132.84	.78401	-.00058	-.00045	.00009	.00245	.00681	K240-03
124	K240-04	-.00012	135.33	.64298	-.00061	-.00019	.00040	.00567	.00181	K240-04
125	K240-05	.00003	129.03	.74500	-.00036	-.00069	.00006	.01182	.00060	K240-05
126	K236-02	-.00015	66.755	.19606	-.00078	-.00065	.00102	.00708	.00141	K236-02
127	CCV11	.48575	63.178	.48507	2.3244	.49520	.49719	1.4577	2.6568	CCV11
128	CCB11	.00009	.22591	-.00009	.00026	.00000	-.00016	-.00001	-.00231	CCB11
129	IPK064WB	.00017	.18380	.00000	.00085	-.00099	.00007	.00004	-.00194	IPK064WB
130	IPK064WL	.39018*	55.925	.47847	.50111	.48349	.51326	.51466	.55790	IPK064WL
131	IPK064WC	.3B359*	55.421	.49401	.51108	.50414	.53224	.52281	.56899	IPK064WC
132	K709-01A	.96776	275.07	1.3652	.94401	.97348	1.0070	1.0128	1.1600	K709-01A
133	K709-01	.00050	227.17	.43854	.00020	.00351	.00134	.00221	.04647	K709-01
134	K709-01D	.00005	231.46	.44768	.00036	.00048	.00106	.00217	.05475	K709-01D
135	K709-01J	.00021	46.187	.08797	-.00036	.00067	.00005	.00050	.00766	K709-01J
136	K709-01M	.42694	288.56	.94948	.47492	.50046	.52343	.51904	.62404	K709-01M
137	K709-01S	.53646	285.08	.93747	.46949	.50045	.51501	.51655	.60989	K709-01S
138	CCV12	.48864	63.541	.48778	2.3246	.49439	.49694	1.4585	2.6565	CCV12
139	CCB12	.00012	.20606	.00013	.00047	.00018	.00020	.00011	.01253*	CCB12
140	IPL004WB	.00016	.17528	.00004	.00039	-.00108	.00015	-.00010	.00402	IPL004WB
141	IPL004WL	.50699	55.030	.47946	.49173	.49469	.51631	.50903	.55659	IPL004WL
142	IPL004WC	.49997	53.454	.49897	.48643	.51206	.53568	.50387	.55444	IPL004WC
143	K307-07A	.50413	105.12	.64398	.48205	.48410	.50631	.50482	.56240	K307-07A
144	K307-07	.00011	53.497	.17501	.00065	-.00024	.00201	.00031	.01511	K307-07
145	K307-07J	.00014	10.727	.03530	.00014	-.00021	.00034	.00025	.00137	K307-07J
146	K307-09	.00008	50.284	.17575	.00029	-.00052	.00062	.00014	.01143	K307-09
147	K307-11	.00002	50.381	.52511	.00025	-.00108	.00892	.00104	.09672	K307-11
148	K309-03	.00029	84.325	.38739	.00038	-.00068	.00513	.02293	.01743	K309-03
149	K309-04	.00018	124.11	.57026	.00001	.00003	.00154	.01118	.00312	K309-04
150	CCV13	.48580	63.467	.48750	2.3246	.49565	.49732	1.4530	2.6600	CCV13
151	CCB13	.00010	.12858	-.00012	-.00020	-.00020	-.00030	.00010	-.00252	CCB13
152	K309-05	.00011	126.30	.58107	-.00013	-.00007	.00150	.01121	.00390	K309-05
153	K280-01	-.00001	121.61	.79885	.00097	-.00093	.00212	.01098	.00268	K280-01
154	K280-01M	.52186	170.38	1.2533	.47433	.49131	.51328	.51439	.55252	K280-01M
155	K280-01S	.53736	175.13	1.2923	.48996	.51068	.53143	.53306	.58104	K280-01S
156	K280-02	.00017	.16171	.00012	.00027	-.00088	-.00008	-.00012	.00374	K280-02
157	K280-03	.00011	126.87	.66105	.00015	-.00073	.00063	.01210	.01024	K280-03
158	K280-01	.00005	119.12	.78222	-.00024	-.00065	.00059	.01059	.01725	K280-01
159	K280-01M	.52781	172.40	1.2752	.48664	.50968	.52499	.52545	.58269	K280-01M
160	K280-01S	.53174	173.09	1.2782	.49217	.51630	.52715	.52976	.59092	K280-01S
161	K280-02	.00018	.17371	.00016	.00064	-.00070	-.00004	.00013	.00400	K280-02
162	CCV14	.48456	63.509	.48682	2.3318	.49979	.49591	1.4569	2.6580	CCV14
163	CCB14	.00003	.12555	-.00006	.00050	.00001	.00013	.00008	-.00259	CCB14
164	K280-03	.00007	121.88	.63713	-.00015	-.00046	.00080	.01183	.00616	K280-03
165	K278-12	.00007	.12019	-.00004	.00010	-.00091	-.00019	.00003	.00529	K278-12

166	ICSA3	.00040	.24782	.02042	-.00075	.00060	.00029	-.00024	-.00126	ICSA3
167	ICSAB3	1.0430	83.147	.50296	.88796	.97561	.98168	.47663	1.0504	ICSAB3
168	CCV15	.48232	63.537	.48657	2.3334	.49969	.49486	1.4538	2.6578	CCV15
169	CCB15	.00015	.09380	-.00013	.00041	-.00011	.00004	-.00006	-.00239	CCB15
170	WTK009SB	.00019	*****	.00128	-.02037	.00998	.00025	.00040	.02202*	WTK009SB
171	K173-05A	.41335	1986.4*	.55046	.43855	.47527	.60930	.54225	5.4766	K173-05A
172	K173-05	.00039	1951.1*	.08404	-.01922*	.01480	.11592	.02164	5.0748	K173-05
173	K173-05J	.00024	564.64	.01662	-.00320	.00284	.02349	.00435	1.0001	K173-05J
174	CCV16	.48472	64.465	.48699	2.3223	.49592	.49575	1.4570	2.6592	CCV16
175	CCB16	-.00004	.47834	-.00010	.00027	-.00007	.00022	-.00002	-.00250	CCB16
176	IPL009SB	-.00002	.36928	.00000	-.00104	.02287	-.00019	.00020	.00897	IPL009SB
177	IPL009SL	.47564	53.783	.47275	.48191	.51280	.50891	.50714	.55998	IPL009SL
178	IPL009SC	.48160	54.014	.47783	.48503	.51256	.51354	.51013	.56246	IPL009SC
179	L034-01A	.47798	57.154	1.2684	.25249	.50541	2.5636	.62357	.72357	L034-01A
180	L034-01	-.00155	2.4328	.80760	-.21525*	.02795	2.1140	.15581	.17591	L034-01
181	L034-01J	-.00015	.62524	.16290	-.04329*	.00562	.43031	.03295	.03374	L034-01J
182	L034-01M	.46024	55.778	1.3864	.21571	.49910	2.3709	.59742	.70675	L034-01M
183	L034-01S	.47014	55.322	1.1787	.27275	.50611	1.8974	.63305	.69507	L034-01S
184	L034-02	-.00823*	2.6236	.96055	-.24837*	.02788	2.2035	.13959	.13278	L034-02
185	L034-03	-.00573*	1.1394	.44861	-.11181*	.02029	1.3423	.22254	.19581	L034-03
186	CCV17	.47956	63.657	.48303	2.3314	.50359	.49670	1.4601	2.6734	CCV17
187	CCB17	.00014	.10762	-.00007	-.00018	-.00012	.00025	.00002	-.00255	CCB17
188	K288-05	.00007	.61272	.04404	-.00094	.01238	1.4381	.08770	2.4545	K288-05
189	K288-10	-.00006	.59775	.04112	-.00089	.00989	1.6113	.09319	.51778	K288-10
190	K360-02	.00003	.57143	.06693	-.00067	.01227	.83308	.42388	28.237	K360-02
191	L046-07	-.00045	4.0175	.20424	.00031	.01955	8.3277	.46634	.34930	L046-07
192	K574-08	.00024	.06604	.00206	-.00094	.01312	.00853	.00024	1.1447	K574-08
193	K574-10	.00006	.07704	.00043	-.00102	.00945	.00163	.00015	.17702	K574-10
194	K574-13	-.00001	.19650	.00087	-.00119	.00761	.00067	-.00007	.48460	K574-13
195	K574-14	.00660	.19043	.01876	-.00144	.05743	.02907	.00090	.72731	K574-14
196	CCV18	.49641	64.538	.49444	2.3095	.49228	.49425	1.4689	2.6565	CCV18
197	CCB18	.00030	.06543	-.00007	.00250	-.00497	.00019	-.00144	.00162	CCB18
198	K360-01	.00016	.23231	.05621	-.00089	.01569	.74771	.25284	48.178*	K360-01
199	K360-02	-.00058	.21255	.06700	-.00134	.01293	.59551	.29065	24.826	K360-02
200	K360-03	-.00016	.15308	.04723	-.00140	.00930	.73498	.21137	1.3580	K360-03
201	K360-04	-.00001	.18960	.06250	-.00096	.00963	.87078	.24829	.44469	K360-04
202	K360-05	-.00016	.27411	.08257	-.00130	.01386	.78855	.31731	2.6984	K360-05
203	K360-06	-.00024	.30469	.08087	-.00085	.01511	.49711	.34363	1.6179	K360-06
204	CCV19	.50593	64.841	.49976	2.2980	.48564	.49678	1.4781	2.6615	CCV19
205	CCB19	-.00001	.04392	-.00003	-.00022	-.00031	.00035	-.00006	-.00245	CCB19
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8L005 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-096
Batch: IPL009-S
Matrix: SOL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

12-3-10 Start	Temp	12-3-10 End	Temp
12:00	90 °C	14:00	90 °C

Hotplate C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-02-07	0.5
LCS-2	↓ - ↓ - -08	0.5
LCS-3	↓ - ↓ - ↓ -09	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-291	10.0
HCl	↓ ↓ -282	10.0
H_2O_2	↓ ↓ -209	10.0
HNO3(1:1)	SM5B-02-133	10.0
Digestate Location	ICP	
Extract Location		

☑ Reagent Water ID: SM5A-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☐ Thermometer ID: 10 16 15 632

Prepared By: MC
Standard Added By: MC
Witnessed By: TH
Extract Rcvd By: TH
Checked By: TH 12/3/10

7850

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
10IPL009S01	IPL009SB	1	g	12/3/10 10:51	100	1	100	1	
10IPL009S02	IPL009SL	1	g	12/3/10 10:51	100	1	100	1	
10IPL009S03	IPL009SC	1	g	12/3/10 10:51	100	1	100	1	
10IPL009S04	K288-05	1.003	g	12/3/10 10:55	100	1	100	0.997	NEW COMPOSITE
10IPL009S05	K288-10	1.004	g	12/3/10 10:58	100	1	100	0.996	NEW COMPOSITE
10IPL009S06	K360-02	1.006	g	12/3/10 10:59	100	1	100	0.994	DRY&SIEVE
10IPL009S07	L046-07	1.013	g	12/3/10 11:11	100	1	100	0.987	
10IPL009S08	L034-01	1.021	g	12/3/10 11:14	100	1	100	0.979	✓
10IPL009S09	L034-01M	1.024	g	12/3/10 11:15	100	1	100	0.977	
10IPL009S10	L034-01S	1.026	g	12/3/10 11:16	100	1	100	0.975	
10IPL009S11	L034-02	1.018	g	12/3/10 11:17	100	1	100	0.982	
10IPL009S12	L034-03	1.023	g	12/3/10 11:19	100	1	100	0.978	
10IPL009S13	K574-08	1.022	g	12/3/10 11:21	100	1	100	0.978	
10IPL009S14	K574-10	1.023	g	12/3/10 11:23	100	1	100	0.978	
10IPL009S15	K574-13	1.029	g	12/3/10 11:23	100	1	100	0.972	
10IPL009S16	K574-14	1.015	g	12/3/10 11:25	100	1	100	0.985	
10IPL009S17	K360-01	1.001	g	12/3/10 11:27	100	1	100	0.999	XRF ✓
10IPL009S18	K360-02	1.024	g	12/3/10 11:28	100	1	100	0.977	XRF ✓
10IPL009S19	K360-03	1.003	g	12/3/10 11:31	100	1	100	0.997	XRF
10IPL009S20	K360-04	1.029	g	12/3/10 11:33	100	1	100	0.972	XRF ✓
~~10IPL009S21~~	~~K360-05~~	~~1.024~~	~~g~~	~~12/3/10 11:33~~	~~100~~	~~1~~	~~100~~	~~0.977~~	~~XRF~~
10IPL009S22	K360-06	1.021	g	12/3/10 11:34	100	1	100	0.979	XRF ✓

12-3-10 MC

Balance ID: 106D1202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 12/3/10 12:00 Prepared By: MC

☑ Digestion Ended @ 12/3/10 14:00 Checked By: TH

Comments: Date 12/3/2010

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 10K360

METHOD 3050B/6010B
LEAD BY TRACE ICP

One (1) soil sample was received on 11/30/10 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPL009SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Sample was oven-dried and passed through sieve # 60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10K360
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL009SB	1	NA	12/04/1006:26	12/03/1012:00	ID8L005176	ID8L005174	IPL009S	Method Blank
LCS1S	IPL009SL	1	NA	12/04/1006:31	12/03/1012:00	ID8L005177	ID8L005174	IPL009S	Lab Control Sample (LCS)
LCD1S	IPL009SC	1	NA	12/04/1006:36	12/03/1012:00	ID8L005178	ID8L005174	IPL009S	LCS Duplicate
SN0228AS	L034-01A	0.979	16.4	12/04/1006:41	12/03/1012:00	ID8L005179	ID8L005174	IPL009S	Analytical Spike Sample
SN0228	L034-01	0.979	16.4	12/04/1006:46	12/03/1012:00	ID8L005180	ID8L005174	IPL009S	Field Sample
SN0228DL	L034-01J	4.90	16.4	12/04/1006:51	12/03/1012:00	ID8L005181	ID8L005174	IPL009S	Diluted Sample
CB231-01-02	K360-02	0.994	NA	12/04/1007:43	12/03/1012:00	ID8L005190	ID8L005186	IPL009S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/20/10 08:48
Project	: TAR CREEK OU4	Date Received:	11/30/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	CB231-01-02	Date Analyzed:	12/04/10 07:43
Lab Samp ID:	K360-02	Dilution Factor:	0.994
Lab File ID:	ID8L005190	Matrix :	SOIL
Ext Btch ID:	IPL0095	% Moisture :	NA
Calib. Ref.:	ID8L005186	Instrument ID :	EMAXTIDB

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	130	0.994	0.199

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/03/10
SDG NO.	: 10K360	Date Extracted:	12/03/10 12:00
Sample ID:	MBLK1S	Date Analyzed:	12/04/10 06:26
Lab Samp ID:	IPL009SB	Dilution Factor:	1
Lab File ID:	ID8L005176	Matrix :	SOIL
Ext Btch ID:	IPL009S	% Moisture :	NA
Calib. Ref.:	ID8L005174	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK DU4
SDG NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL009SB	IPL009SL	IPL009SC		
LAB FILE ID:	ID8L005176	ID8L005177	IDBL005178		
DATIME EXTRCTD:	12/03/1012:00	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/04/1006:26	12/04/1006:31	12/04/1006:36	DATE RECEIVED:	12/03/10
PREP. BATCH:	IPL009S	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	49	98	50	49.3	99	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.4
DILUTION FACTOR:	0.979	4.90		
SAMPLE ID:	SN0228	SN0228DL		
EMAX SAMP ID:	L034-01	L034-01J		
LAB FILE ID:	ID8L005180	ID8L005181		
DATE EXTRACTED:	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	12/01/10 11:15
DATE ANALYZED:	12/04/1006:46	12/04/1006:51	DATE RECEIVED:	12/02/10
PREP. BATCH:	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	ID8L005174		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	110	115	4	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10K360
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.4
DILTN FACTR:	0.979	0.979		
SAMPLE ID:	SN0228			
CONTROL NO.:	L034-01	L034-01A		
LAB FILE ID:	ID8L005180	ID8L005179		
DATIME EXTRCTD:	12/03/1012:00	12/03/1012:00	DATE COLLECTED:	12/01/10 11:15
DATIME ANALYZD:	12/04/1006:46	12/04/1006:41	DATE RECEIVED:	12/02/10
PREP. BATCH:	IPL009S	IPL009S		
CALIB. REF:	ID8L005174	IDBL005174		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	110	58.6	163	90	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/3/10 14:08
End Date: 12/4/10 09:08

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

- updated IEC for Cd, V
~~1PK063W~~ TH 12/3/10
- 1PK063WL/WC ↓Ag
- K211-02
  -03
  -04
  -05
  } NaZLOR
- CCB10, CCB11 NaZLOD, >2XMDL however, associated sampler detected >100X blank conc levels.
- CCB12 ZnZLOD TH 12/3/10
- CCB8 As 73X10L, ~~however~~ however, all sampler for K574 detected ND need rerun for K258 & L046
- L034-01 - T1

Book #: AD8-017
Instrument No.: D8
Analytical Batch: 1D8L005
Analytical Sequence: S-1UL6010 (V7)
Method File: 1UL6010 (V7)
Database: EmaX13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-1601	S30	SM1B1402-03
S1	NA	S31	↓ 02-04
S2	↓	ICV	SM1B1409 01
S3		CCV	1602
S4		ICSA	1103
S5		ICSAB	0303
S6		MLCV	NA
S7		LLCV	↓
S8		CRI/MRL 1	SM1B12550 1
S9		MRL2	↓ 6401
S10			
S11			
S12			
S16			
S17			
S18	↓		
S20	SM1B12-100-05		
S21	SM1B14-01-01		
S22	01-02		
S23	01-03		
S24	01-04		
S25	↓ 01-05		
S26	SM1B12-100-02		
S27	↓ 100-03		
S28	SM1B1402-01		
S29	↓ 0202		

Analyzed By: TH
Date: 12/3/10

SEQUENCE FILE : ID8L005

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8L005001	Blank	14:08	12/03/10	1.000
ID8L005002	S20	14:13	12/03/10	1.000
ID8L005003	S21	14:18	12/03/10	1.000
ID8L005004	S22	14:23	12/03/10	1.000
ID8L005005	S23	14:29	12/03/10	1.000
ID8L005006	S24	14:34	12/03/10	1.000
ID8L005007	S25	14:39	12/03/10	1.000
ID8L005008	S26	14:45	12/03/10	1.000
ID8L005009	S27	14:50	12/03/10	1.000
ID8L005010	S28	14:55	12/03/10	1.000
ID8L005011	S29	15:00	12/03/10	1.000
ID8L005012	S30	15:06	12/03/10	1.000
ID8L005013	S31	15:11	12/03/10	1.000
ID8L005014	ICV	15:16	12/03/10	1.000
ID8L005015	ICB	15:21	12/03/10	1.000
ID8L005016	MRLL031	15:26	12/03/10	1.000
ID8L005017	MRLL032	15:31	12/03/10	1.000
ID8L005018	ICSA1	15:36	12/03/10	1.000
ID8L005019	ICSAB1	15:42	12/03/10	1.000
ID8L005020	CCV1	15:51	12/03/10	1.000
ID8L005021	CCB1	15:56	12/03/10	1.000
ID8L005022	IPK031WQ	16:01	12/03/10	1.000
ID8L005023	IPK031WX	16:06	12/03/10	1.000
ID8L005024	IPK031WY	16:11	12/03/10	1.000
ID8L005025	K134-01A	16:16	12/03/10	1.000
ID8L005026	K134-01W	16:21	12/03/10	1.000
ID8L005027	K134-01J	16:26	12/03/10	5.000
ID8L005028	K134-02W	16:32	12/03/10	1.000
ID8L005029	K134-03W	16:37	12/03/10	1.000
ID8L005030	K134-04W	16:42	12/03/10	1.000
ID8L005031	CCV2	16:51	12/03/10	1.000
ID8L005032	CCB2	16:56	12/03/10	1.000
ID8L005033	K134-01W	17:01	12/03/10	1.000
ID8L005034	K134-02W	17:07	12/03/10	1.000
ID8L005035	K134-03W	17:12	12/03/10	1.000
ID8L005036	K134-04W	17:17	12/03/10	1.000
ID8L005037	K270-02	17:22	12/03/10	1.000
ID8L005038	K270-04	17:27	12/03/10	1.000
ID8L005039	K270-05	17:33	12/03/10	1.000
ID8L005040	K270-06	17:38	12/03/10	1.000
ID8L005041	CCV3	17:47	12/03/10	1.000
ID8L005042	CCB3	17:52	12/03/10	1.000
ID8L005043	IPK057WB	17:57	12/03/10	1.000
ID8L005044	IPK057WL	18:02	12/03/10	1.000
ID8L005045	IPK057WC	18:07	12/03/10	1.000
ID8L005046	K236-01A	18:12	12/03/10	1.000
ID8L005047	K236-01	18:17	12/03/10	1.000
ID8L005048	K236-01J	18:22	12/03/10	5.000
ID8L005049	K236-03	18:27	12/03/10	1.000
ID8L005050	K234-02	18:33	12/03/10	1.000
ID8L005051	K234-03	18:38	12/03/10	1.000
ID8L005052	K234-04	18:43	12/03/10	1.000
ID8L005053	CCV4	18:52	12/03/10	1.000
ID8L005054	CCB4	18:57	12/03/10	1.000

ID8L005055	IPK062WB	19:02	12/03/10	1.000
ID8L005056	IPK062WL	19:07	12/03/10	1.000
ID8L005057	IPK062WC	19:12	12/03/10	1.000
ID8L005058	K294-01A	19:17	12/03/10	1.000
ID8L005059	K294-01	19:23	12/03/10	1.000
ID8L005060	K294-01J	19:28	12/03/10	5.000
ID8L005061	K294-01M	19:33	12/03/10	1.000
ID8L005062	K294-01S	19:38	12/03/10	1.000
ID8L005063	K294-02	19:43	12/03/10	1.000
ID8L005064	K294-03	19:49	12/03/10	1.000
ID8L005065	CCV5	19:58	12/03/10	1.000
ID8L005066	CCB5	20:03	12/03/10	1.000
ID8L005067	IPK057WX	20:08	12/03/10	1.000
ID8L005068	IPK057WY	20:13	12/03/10	1.000
ID8L005069	K294-04	20:18	12/03/10	1.000
ID8L005070	K294-05	20:23	12/03/10	1.000
ID8L005071	K294-06	20:29	12/03/10	1.000
ID8L005072	K234-07	20:34	12/03/10	1.000
ID8L005073	ICSA2	20:43	12/03/10	1.000
ID8L005074	ICSAB2	20:48	12/03/10	1.000
ID8L005075	CCV6	20:58	12/03/10	1.000
ID8L005076	CCB6	21:03	12/03/10	1.000
ID8L005077	IPK063WB	21:08	12/03/10	1.000
ID8L005078	IPK063WL	21:13	12/03/10	1.000
ID8L005079	IPK063WC	21:18	12/03/10	1.000
ID8L005080	K267-01A	21:23	12/03/10	1.000
ID8L005081	K267-01	21:28	12/03/10	1.000
ID8L005082	K267-01J	21:33	12/03/10	5.000
ID8L005083	K237-01	21:38	12/03/10	1.000
ID8L005084	K237-02	21:44	12/03/10	1.000
ID8L005085	K237-03	21:49	12/03/10	1.000
ID8L005086	CCV7	21:58	12/03/10	1.000
ID8L005087	CCB7	22:03	12/03/10	1.000
ID8L005088	K267-01M	22:08	12/03/10	1.000
ID8L005089	K267-01S	22:13	12/03/10	1.000
ID8L005090	K267-02	22:18	12/03/10	1.000
ID8L005091	K267-03	22:24	12/03/10	1.000
ID8L005092	K267-04	22:29	12/03/10	1.000
ID8L005093	K267-05	22:34	12/03/10	1.000
ID8L005094	K267-01	22:39	12/03/10	1.000
ID8L005095	K267-02	22:45	12/03/10	1.000
ID8L005096	K267-03	22:50	12/03/10	1.000
ID8L005097	K267-04	22:55	12/03/10	1.000
ID8L005098	CCV8	23:04	12/03/10	1.000
ID8L005099	CCB8	23:10	12/03/10	1.000
ID8L005100	K267-05	23:15	12/03/10	1.000
ID8L005101	K262-17	23:20	12/03/10	1.000
ID8L005102	K271-01	23:25	12/03/10	1.000
ID8L005103	K271-02	23:30	12/03/10	1.000
ID8L005104	K271-03	23:35	12/03/10	1.000
ID8L005105	K271-04	23:41	12/03/10	1.000
ID8L005106	K271-05	23:46	12/03/10	1.000
ID8L005107	CCV9	23:55	12/03/10	1.000
ID8L00510B	CCB9	00:00	12/04/10	1.000
ID8L005109	IPK056WB	00:05	12/04/10	1.000
ID8L005110	IPK056WL	00:11	12/04/10	1.000
ID8L005111	IPK056WC	00:16	12/04/10	1.000

ID8L005112	K211-02A	00:21	12/04/10	1.000
ID8L005113	K211-02	00:26	12/04/10	1.000
ID8L005114	K211-02J	00:31	12/04/10	5.000
ID8L005115	K211-02M	00:36	12/04/10	1.000
ID8L005116	K211-02S	00:42	12/04/10	1.000
ID8L005117	K211-03	00:47	12/04/10	1.000
ID8L005118	K211-04	00:52	12/04/10	1.000
ID8L005119	CCV10	01:01	12/04/10	1.000
ID8L005120	CCB10	01:06	12/04/10	1.000
ID8L005121	K211-05	01:12	12/04/10	1.000
ID8L005122	K240-02	01:17	12/04/10	1.000
ID8L005123	K240-03	01:22	12/04/10	1.000
ID8L005124	K240-04	01:27	12/04/10	1.000
ID8L005125	K240-05	01:33	12/04/10	1.000
ID8L005126	K236-02	01:38	12/04/10	1.000
ID8L005127	CCV11	01:47	12/04/10	1.000
ID8L005128	CCB11	01:53	12/04/10	1.000
ID8L005129	IPK064WB	01:58	12/04/10	1.000
ID8L005130	IPK064WL	02:03	12/04/10	1.000
ID8L005131	IPK064WC	02:08	12/04/10	1.000
ID8L005132	K709-01A	02:13	12/04/10	1.000
ID8L005133	K709-01	02:18	12/04/10	1.000
ID8L005134	K709-01D	02:23	12/04/10	1.000
ID8L005135	K709-01J	02:28	12/04/10	5.000
ID8L005136	K709-01M	02:34	12/04/10	1.000
ID8L005137	K709-01S	02:39	12/04/10	1.000
ID8L005138	CCV12	02:48	12/04/10	1.000
ID8L005139	CCB12	02:53	12/04/10	1.000
ID8L005140	IPL004WB	02:58	12/04/10	1.000
ID8L005141	IPL004WL	03:04	12/04/10	1.000
ID8L005142	IPL004WC	03:08	12/04/10	1.000
ID8L005143	K307-07A	03:13	12/04/10	1.000
ID8L005144	K307-07	03:18	12/04/10	1.000
ID8L005145	K307-07J	03:24	12/04/10	5.000
ID8L005146	K307-09	03:29	12/04/10	1.000
ID8L005147	K307-11	03:34	12/04/10	1.000
ID8L005148	K309-03	03:39	12/04/10	1.000
ID8L005149	K309-04	03:44	12/04/10	1.000
ID8L005150	CCV13	03:54	12/04/10	1.000
ID8L005151	CCB13	03:59	12/04/10	1.000
ID8L005152	K309-05	04:04	12/04/10	1.000
ID8L005153	K280-01	04:09	12/04/10	1.000
ID8L005154	K280-01M	04:14	12/04/10	1.000
ID8L005155	K280-01S	04:20	12/04/10	1.000
ID8L005156	K280-02	04:25	12/04/10	1.000
ID8L005157	K280-03	04:30	12/04/10	1.000
ID8L005158	K280-01	04:35	12/04/10	1.000
ID8L005159	K280-01M	04:40	12/04/10	1.000
ID8L005160	K280-01S	04:46	12/04/10	1.000
ID8L005161	K280-02	04:51	12/04/10	1.000
ID8L005162	CCV14	05:00	12/04/10	1.000
ID8L005163	CCB14	05:05	12/04/10	1.000
ID8L005164	K280-03	05:10	12/04/10	1.000
ID8L005165	K278-12	05:16	12/04/10	1.000
ID8L005166	ICSA3	05:25	12/04/10	1.000
ID8L005167	ICSAB3	05:30	12/04/10	1.000
ID8L005168	CCV15	05:40	12/04/10	1.000

ID8L005169	CCB15	05:45	12/04/10	1.000
ID8L005170	WTK009SB	05:50	12/04/10	1.000
ID8L005171	K173-05A	05:55	12/04/10	1.000
ID8L005172	K173-05	06:01	12/04/10	1.000
ID8L005173	K173-05J	06:06	12/04/10	5.000
ID8L005174	CCV16	06:15	12/04/10	1.000
ID8L005175	CCB16	06:20	12/04/10	1.000
ID8L005176	IPL009SB	06:26	12/04/10	1.000
ID8L005177	IPL009SL	06:31	12/04/10	1.000
ID8L005178	IPL009SC	06:36	12/04/10	1.000
ID8L005179	L034-01A	06:41	12/04/10	1.000
ID8L005180	L034-01	06:46	12/04/10	1.000
ID8L005181	L034-01J	06:51	12/04/10	5.000
ID8L005182	L034-01M	06:57	12/04/10	1.000
ID8L005183	L034-01S	07:02	12/04/10	1.000
ID8L005184	L034-02	07:07	12/04/10	1.000
ID8L005185	L034-03	07:13	12/04/10	1.000
ID8L005186	CCV17	07:22	12/04/10	1.000
ID8L005187	CCB17	07:27	12/04/10	1.000
ID8L005188	K288-05	07:32	12/04/10	1.000
ID8L005189	K288-10	07:38	12/04/10	1.000
ID8L005190	K360-02 unused	07:43	12/04/10	1.000
ID8L005191	L046-07 reserved	07:48	12/04/10	1.000
ID8L005192	K574-08	07:53	12/04/10	1.000
ID8L005193	K574-10	07:58	12/04/10	1.000
ID8L005194	K574-13	08:03	12/04/10	1.000
ID8L005195	K574-14	08:09	12/04/10	1.000
ID8L005196	CCV18	08:18	12/04/10	1.000
ID8L005197	CCB18	08:23	12/04/10	1.000
ID8L005198	K360-01	08:28	12/04/10	1.000
ID8L005199	K360-02	08:33	12/04/10	1.000
ID8L005200	K360-03	08:38	12/04/10	1.000
ID8L005201	K360-04	08:43	12/04/10	1.000
ID8L005202	K360-05	08:48	12/04/10	1.000
ID8L005203	K360-06	08:53	12/04/10	1.000
ID8L005204	CCV19	09:03	12/04/10	1.000
ID8L005205	CCB19	09:08	12/04/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : ID8L005 DATE : 12/03/10 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	103	99	103	102	100	96	103	100	96	94	102	97	96	104	96	95	100	99	100	104	99	104	98	94	99	99	96	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL031	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL032	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	95	----	----	----	94	----	----	97	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	105	108	108	98	100	105	95	94	93	108	94	93	111	97	93	103	98	107	109	110	111	104	91	100	99	98	105
CCV1	104	100	104	101	99	99	103	100	96	95	102	100	95	104	95	94	101	99	99	105	99	104	98	96	102	98	99	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	103	99	102	100	99	97	103	100	95	95	101	99	96	104	95	93	101	99	98	103	98	103	97	96	103	98	99	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	99	103	100	99	98	103	101	97	94	101	100	95	104	95	94	100	99	99	104	99	104	97	95	102	99	99	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	103	99	103	100	99	96	104	101	95	94	100	99	96	103	96	93	101	99	98	103	97	103	97	96	103	99	98	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

7055

IPK062WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	99	104	101	100	98	103	102	98	94	101	101	95	104	98	95	99	98	100	105	99	105	98	94	100	99	99	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	96	----	----	----	----	----	----	95	----	----	----	94	----	----	97	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	96	102	106	105	98	96	102	94	93	89	103	93	90	107	97	91	99	95	104	106	106	109	100	88	96	97	95	103
CCV6	104	98	105	101	101	98	103	102	98	93	101	100	95	104	98	95	99	98	100	105	99	105	98	94	100	99	98	106
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	104	99	106	102	101	100	103	102	100	94	103	101	95	105	98	96	98	98	101	107	102	106	99	93	98	99	99	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	98	106	102	102	99	103	103	100	94	103	101	95	105	100	96	98	98	101	106	101	106	99	93	98	100	98	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K262-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	103	97	104	102	102	97	104	102	98	93	101	100	95	105	100	96	98	98	100	104	99	105	98	93	99	100	97	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K211-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	102	97	104	102	101	96	103	102	97	92	99	100	95	105	99	93	97	97	100	103	97	106	97	93	99	99	97	106
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	102	97	104	102	101	96	103	102	97	92	99	100	95	105	98	92	97	97	100	103	97	105	97	93	99	99	97	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	97	104	102	101	96	103	102	98	93	99	100	95	105	98	92	98	97	101	103	98	106	98	93	99	99	97	106
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	103	97	104	102	101	96	103	102	97	92	99	100	95	106	97	91	98	97	101	103	97	106	97	93	99	99	97	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	102	97	103	102	100	96	103	102	96	92	99	100	95	106	97	90	98	97	101	103	97	106	97	93	100	99	97	106
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K278-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	95	----	----	----	----	----	----	95	----	----	----	93	----	----	97	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA83	96	101	106	107	98	95	104	94	92	90	102	93	91	110	97	87	100	95	106	104	104	111	101	89	98	98	95	105
CCV15	102	97	103	102	100	95	103	101	96	92	98	100	95	105	97	90	98	97	101	102	96	106	97	93	100	99	97	106

CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	102	97	104	103	100	96	103	102	97	92	99	100	95	106	97	89*	97	97	101	103	97	107	97	93	99	99	97	106
CCB16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV17	102	97	104	102	100	95	103	102	96	92	97	100	95	105	97	88*	98	97	101	102	96	106	97	93	101	99	97	107
CCB17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L046-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	104	98	106	103	100	98	103	102	99	92	101	101	94	107	96	89*	97	97	102	105	99	108	99	92	98	99	98	106
CCB18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV19	104	98	107	104	100	99	103	102	101	93	102	102	94	107	97	90	96	97	103	106	101	108	100	92	97	99	99	106
CCB19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L005 (SOIL) DATE : 12/03/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	1.39	5.85	.520	-.230	.000	1.33	-.090	8.11	-.020	.020	-.210	-5.21	-.370	.200	2.10	.040	2.13	-.170	8.62	.550	.110	9.75	-.060	.000	-.260	.330	-.010	-1.63
MRLL031	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL032	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.51	-.960	.980	-.060	.640	.260	----	1.46	-.290	2.13	----	-.180	5.62	----	.960	-1.58	-.720	58.8	.690	.300	65.6	20.8	-2.58	.930	1.34	-.090	-.850
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	1.39	5.91	.970	-.300	-.020	1.43	-.090	6.19	-.070	.020	.000	-4.30	-.370	-.300	7.92	.020	2.03	-.180	2.96	-.260	-.020	15.6	-.020	.440	-.050	.090	.050	-1.73
IPK031WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK031WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.65	6.57	.550	-.040	-.020	1.27	-.070	6.95	-.030	.030	-.050	-2.91	-.390	.370	3.57	.030	1.82	-.070	13.0	-.220	.030	32.0	-.010	.270	.530	-.210	.070	-1.57
K134-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K134-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-2.89	6.16	.900	-.310	-.030	1.01	-.130	7.22	-.130	-.030	-.090	-5.31	-.290	.040	5.59	.030	1.95	-.150	24.2	.030	.110	59.4	-.110	.110	.020	-.130	.120	-1.66
IPK057WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	.630	7.74	.300	-.270	-.010	1.10	-.080	4.14	.000	.020	-.090	-5.39	.070	-.130	-.120	.060	2.10	-.290	35.7	.100	.080	45.6	-.020	.340	-.110	-.250	-.010	-1.67

IPK062WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK062WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	.220	8.59	1.05	-.360	.010	1.43	-.040	.410	-.010	.060	-.160	-6.00	-.050	.510	-1.98	-.070	2.21	-.190	27.1	.560	-.020	60.6	-.040	-.100	-.080	.050	-.030	-1.81
IPK057WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK057WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K294-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K234-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	6.07	.160	1.08	.110	2.39	-1.24	----	1.58	-.600	1.78	----	-1.59	6.39	----	.930	-1.44	-.780	107	.540	.280	198	20.5	-1.19	1.96	1.01	-.120	.190
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-.800	7.32	1.16	-.320	.010	1.13	-.070	3.13	-.010	.140	-.190	-4.90	-.370	.120	-4.68	.020	2.31	-.160	35.4	.150	.040	49.1	-.010	.530	-.170	.330	.050	-1.94
IPK063W8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK063WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K237-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	2.62	6.72	.920	-.190	.000	1.16	-.100	3.83	-.040	.130	-.270	-3.86	.090	.090	5.46	.060	2.05	-.200	22.1	.140	-.020	55.2	-.020	.090	-.020	.270	-.150	-1.82
K267-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K267-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	3.45	5.83	.140	-.300	.020	1.49	-.080	.920	-.020	.200	-.300	-3.56	-.120	-.180	-2.11	.180	1.92	-.130	23.5	.420	.030	86.9	-.020	.430	-.110	.060	-.060	-1.83
K267-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K262-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K271-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	7.42	5.64	.090	-.190	-.020	.810	-.080	10.3	.020	-.040	-.280	-3.89	-.230	.350	3.97	-.070	1.94	-.150	19.5	-.020	.110	60.1	-.090	.110	-.050	-.110	-.040	-1.77
IPK056WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK056WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K211-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K211-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	.050	5.44	.610	-.340	.000	1.05	-.040	-10.3	.000	-.010	-.350	-4.52	-.030	.030	3.06	-.140	1.88	-.130	121	.000	.240	343	-.070	.050	-.130	.550	-.040	-2.22
K211-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K240-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K236-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-1.22	5.01	.940	-.230	.000	1.37	-.090	-12.3	.050	.030	-.360	-2.26	.240	.060	-3.22	.160	1.95	-.150	53.8	-.060	.090	226	-.090	.260	.000	-.160	-.010	-2.31
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K709-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	8.28	9.25	2.15	.240	.150	1.47	.040	383	.170	.110	-.050	1.13	.310	.000	1.14	.370	2.26	.040	54.8	-.560	.120	206	.130	.470	.180	.200	.110	12.5
IPL004W8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K309-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	.350	4.90	1.17	-.300	-.020	.650	-.050	-14.3	-.040	.110	-.320	-2.89	-.250	-.090	6.36	-.050	1.96	-.250	24.7	-.520	.100	129	-.120	-.200	-.200	-.300	.100	-2.52
K309-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K280-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	-1.05	5.48	.780	-.180	.020	1.05	-.050	-15.9	-.010	.090	-.260	-4.48	-.050	.200	-6.57	.600	1.95	-.200	23.8	-.770	.030	126	-.060	.500	.010	.130	.080	-2.59
K280-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K27B-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	----	8.86	1.90	1.03	.070	3.88	-1.12	----	1.57	-.510	1.60	----	-1.41	6.97	----	1.02	-1.55	-.840	63.1	-1.41	.400	248	20.4	-.750	.600	.290	-.240	-1.26
ICSAB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCB15	-1.51	4.69	1.25	-.250	.010	.740	-.050	-13.3	.030	.000	-.260	-5.08	.030	-.280	3.90	.030	2.04	-.140	22.4	-.200	.150	93.8	-.130	.410	-.110	.040	-.060	-2.39
WTK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K173-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB16	-1.33	4.73	1.56	-.330	-.010	.740	-.090	-15.2	-.050	.080	-.360	-3.80	-.340	-.070	1.09	.100	1.93	-.230	151	.220	-.040	478	-.100	.270	-.070	.220	-.020	-2.50
IPL009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L034-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB17	-4.03	5.28	1.98	-.280	-.010	.630	-.080	-15.1	-.030	.070	-.300	-5.45	.090	.090	5.44	-.010	1.92	-.170	15.4	-.140	.140	108	-.070	-.180	-.120	.250	.020	-2.55
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L046-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB18	.860	9.90	6.50	-.090	.000	2.82	-.430	-12.7	.800	-.400	-.900	16.6	3.44	-.330	3.93	.420	2.08	.200	.980	2.49	.300	65.4	-.070	2.50	-4.97	.190	-1.44	1.62
K360-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K360-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB19	2.16	4.86	1.01	-.250	.010	1.24	-.060	-14.6	.040	.160	-.400	-2.85	-.280	.220	2.93	.040	1.88	-.260	-13.0	.580	-.010	43.9	-.030	-.220	-.310	.350	-.060	-2.45

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L005001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L005002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L005003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L005004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L005005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L005006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L005007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L005008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L005009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L005010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L005011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L005012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L005013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8L005014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L005015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL031		ID8L005016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLL032		ID8L005017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8L005018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L005019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L005020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L005021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPK031WQ		ID8L005022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPK031WX		ID8L005023			1	☒	LCS	None
24	11	2	11	1	QC	IPK031WY		ID8L005024			1	☒	LCS	None
25	12	2	12	1	Unk	K134-01A	TOT	ID8L005025			1	☒	unk	---
26	13	2	1	2	Unk	K134-01W	TOT	ID8L005026			1	☒	unk	---
27	14	2	2	2	Unk	K134-01J	TOT	ID8L005027			1	☒	unk	---
28	15	2	3	2	Unk	K134-02W	TOT	ID8L005028			1	☒	unk	---
29	16	2	4	2	Unk	K134-03W	TOT	ID8L005029			1	☒	unk	---
30	17	2	5	2	Unk	K134-04W	TOT	ID8L005030			1	☒	unk	---
31	18	2	6	2	QC	CCV2		ID8L005031			1	☒	CCV	None
32	19	2	7	2	QC	CCB2		ID8L005032			1	☒	3XIDL	None
33	20	2	8	2	Unk	K134-01W	DISS	ID8L005033			1	☒	unk	---
34	21	2	9	2	Unk	K134-02W	DISS	ID8L005034			1	☒	unk	---
35	22	2	10	2	Unk	K134-03W	DISS	ID8L005035			1	☒	unk	---
36	23	2	11	2	Unk	K134-04W	DISS	ID8L005036			1	☒	unk	---
37	24	2	12	2	Unk	K270-02		ID8L005037			1	☒	unk	---
38	25	2	1	3	Unk	K270-04		ID8L005038			1	☒	unk	---
39	26	2	2	3	Unk	K270-05		ID8L005039			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	K270-06		ID8L005040			1	☒	unk	---
41	28	2	4	3	QC	CCV3		ID8L005041			1	☒	CCV	None
42	29	2	5	3	QC	CCB3		ID8L005042			1	☒	3XIDL	None
43	30	2	6	3	QC	IPK057WB		ID8L005043			1	☒	1/2LOQ	None
44	31	2	7	3	QC	IPK057WL		ID8L005044			1	☒	LCS	None
45	32	2	8	3	QC	IPK057WC		ID8L005045			1	☒	LCS	None
46	33	2	9	3	Unk	K236-01A		ID8L005046			1	☒	unk	---
47	34	2	10	3	Unk	K236-01		ID8L005047			1	☒	unk	---
48	35	2	11	3	Unk	K236-01J		ID8L005048			1	☒	unk	---
49	36	2	12	3	Unk	K236-03		ID8L005049			1	☒	unk	---
50	37	2	1	4	Unk	K234-02		ID8L005050			1	☒	unk	---
51	38	2	2	4	Unk	K234-03		ID8L005051			1	☒	unk	---
52	39	2	3	4	Unk	K234-04		ID8L005052			1	☒	unk	---
53	40	2	4	4	QC	CCV4		ID8L005053			1	☒	CCV	None
54	41	2	5	4	QC	CCB4		ID8L005054			1	☒	3XIDL	None
55	42	2	6	4	QC	IPK062WB		ID8L005055			1	☒	1/2LOQ	None
56	43	2	7	4	QC	IPK062WL		ID8L005056			1	☒	LCS	None
57	44	2	8	4	QC	IPK062WC		ID8L005057			1	☒	LCS	None
58	45	2	9	4	Unk	K294-01A		ID8L005058			1	☒	unk	---
59	46	2	10	4	Unk	K294-01		ID8L005059			1	☒	unk	---
60	47	2	11	4	Unk	K294-01J		ID8L005060			1	☒	unk	---
61	48	2	12	4	Unk	K294-01M		ID8L005061			1	☒	unk	---
62	49	2	1	5	Unk	K294-01S		ID8L005062			1	☒	unk	---
63	50	2	2	5	Unk	K294-02		ID8L005063			1	☒	unk	---
64	51	2	3	5	Unk	K294-03		ID8L005064			1	☒	unk	---
65	52	2	4	5	QC	CCV5		ID8L005065			1	☒	CCV	None
66	53	2	5	5	QC	CCB5		ID8L005066			1	☒	3XIDL	None
67	11	2	11	1	QC	IPK057WX		ID8L005067			1	☒	LCS	None
68	12	2	12	1	QC	IPK057WY		ID8L005068			1	☒	LCS	None
69	54	2	6	5	Unk	K294-04		ID8L005069			1	☒	unk	---
70	55	2	7	5	Unk	K294-05		ID8L005070			1	☒	unk	---
71	56	2	8	5	Unk	K294-06		ID8L005071			1	☒	unk	---
72	57	2	9	5	Unk	K234-07		ID8L005072			1	☒	unk	---
73	58	2	10	5	QC	ICSA2		ID8L005073			1	☒	ICSA	None
74	59	2	11	5	QC	ICSAB2		ID8L005074			1	☒	ICSAB	None
75	60	2	12	5	QC	CCV6		ID8L005075			1	☒	CCV	None
76	61	3	1	1	QC	CCB6		ID8L005076			1	☒	3XIDL	None
77	62	3	2	1	QC	IPK063WB		ID8L005077			1	☒	1/2LOQ	None
78	63	3	3	1	QC	IPK063WL		ID8L005078			1	☒	LCS	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	64	3	4	1	QC	IPK063WC		ID8L005079			1	☒	LCS	None
80	65	3	5	1	Unk	K267-01A	TOT	ID8L005080			1	☒	unk	---
81	66	3	6	1	Unk	K267-01	TOT	ID8L005081			1	☒	unk	---
82	67	3	7	1	Unk	K267-01J	TOT	ID8L005082			1	☒	unk	---
83	68	3	8	1	Unk	K237-01		ID8L005083			1	☒	unk	---
84	69	3	9	1	Unk	K237-02		ID8L005084			1	☒	unk	---
85	70	3	10	1	Unk	K237-03		ID8L005085			1	☒	unk	---
86	71	3	11	1	QC	CCV7		ID8L005086			1	☒	CCV	None
87	72	3	12	1	QC	CCB7		ID8L005087			1	☒	3XIDL	None
88	73	3	1	2	Unk	K267-01M	TOT	ID8L005088			1	☒	unk	---
89	74	3	2	2	Unk	K267-01S	TOT	ID8L005089			1	☒	unk	---
90	75	3	3	2	Unk	K267-02	TOT	ID8L005090			1	☒	unk	---
91	76	3	4	2	Unk	K267-03	TOT	ID8L005091			1	☒	unk	---
92	77	3	5	2	Unk	K267-04	TOT	ID8L005092			1	☒	unk	---
93	78	3	6	2	Unk	K267-05	TOT	ID8L005093			1	☒	unk	---
94	79	3	7	2	Unk	K267-01	DISS	ID8L005094			1	☒	unk	---
95	80	3	8	2	Unk	K267-02	DISS	ID8L005095			1	☒	unk	---
96	81	3	9	2	Unk	K267-03	DISS	ID8L005096			1	☒	unk	---
97	82	3	10	2	Unk	K267-04	DISS	ID8L005097			1	☒	unk	---
98	83	3	11	2	QC	CCV8		ID8L005098			1	☒	CCV	None
99	84	3	12	2	QC	CCB8		ID8L005099			1	☒	3XIDL	None
100	85	3	1	3	Unk	K267-05	DISS	ID8L005100			1	☒	unk	---
101	86	3	2	3	Unk	K262-17		ID8L005101			1	☒	unk	---
102	87	3	3	3	Unk	K271-01		ID8L005102			1	☒	unk	---
103	88	3	4	3	Unk	K271-02		ID8L005103			1	☒	unk	---
104	89	3	5	3	Unk	K271-03		ID8L005104			1	☒	unk	---
105	90	3	6	3	Unk	K271-04		ID8L005105			1	☒	unk	---
106	91	3	7	3	Unk	K271-05		ID8L005106			1	☒	unk	---
107	92	3	8	3	QC	CCV9		ID8L005107			1	☒	CCV	None
108	93	3	9	3	QC	CCB9		ID8L005108			1	☒	3XIDL	None
109	94	3	10	3	QC	IPK056WB		ID8L005109			1	☒	1/2LOQ	None
110	95	3	11	3	QC	IPK056WL		ID8L005110			1	☒	LCS	None
111	96	3	12	3	QC	IPK056WC		ID8L005111			1	☒	LCS	None
112	97	3	1	4	Unk	K211-02A		ID8L005112			1	☒	unk	---
113	98	3	2	4	Unk	K211-02		ID8L005113			1	☒	unk	---
114	99	3	3	4	Unk	K211-02J		ID8L005114			1	☒	unk	---
115	100	3	4	4	Unk	K211-02M		ID8L005115			1	☒	unk	---
116	101	3	5	4	Unk	K211-02S		ID8L005116			1	☒	unk	---
117	102	3	6	4	Unk	K211-03		ID8L005117			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
118	103	3	7	4	Unk	K211-04		ID8L005118			1	☒	unk	---
119	104	3	8	4	QC	CCV10		ID8L005119			1	☒	CCV	None
120	105	3	9	4	QC	CCB10		ID8L005120			1	☒	3XIDL	None
121	106	3	10	4	Unk	K211-05		ID8L005121			1	☒	unk	---
122	107	3	11	4	Unk	K240-02		ID8L005122			1	☒	unk	---
123	108	3	12	4	Unk	K240-03		ID8L005123			1	☒	unk	---
124	109	3	1	5	Unk	K240-04		ID8L005124			1	☒	unk	---
125	110	3	2	5	Unk	K240-05		ID8L005125			1	☒	unk	---
126	111	3	3	5	Unk	K236-02		ID8L005126			1	☒	unk	---
127	112	3	4	5	QC	CCV11		ID8L005127			1	☒	CCV	None
128	113	3	5	5	QC	CCB11		ID8L005128			1	☒	3XIDL	None
129	180	4	12	5	QC	IPK064WB		ID8L005129			1	☒	1/2LOQ	None
130	1	2	1	1	QC	IPK064WL		ID8L005130			1	☒	LCS-200.7	None
131	2	2	2	1	QC	IPK064WC		ID8L005131			1	☒	LCS-200.7	None
132	3	2	3	1	Unk	K709-01A	1ppm spike	ID8L005132			1	☒	unk	---
133	4	2	4	1	Unk	K709-01		ID8L005133			1	☒	unk	---
134	5	2	5	1	Unk	K709-01D		ID8L005134			1	☒	unk	---
135	6	2	6	1	Unk	K709-01J		ID8L005135			1	☒	unk	---
136	7	2	7	1	Unk	K709-01M		ID8L005136			1	☒	unk	---
137	8	2	8	1	Unk	K709-01S		ID8L005137			1	☒	unk	---
138	9	2	9	1	QC	CCV12		ID8L005138			1	☒	CCV	None
139	10	2	10	1	QC	CCB12		ID8L005139			1	☒	3XIDL	None
140	114	3	6	5	QC	IPL004WB		ID8L005140			1	☒	1/2LOQ	None
141	115	3	7	5	QC	IPL004WL		ID8L005141			1	☒	LCS	None
142	116	3	8	5	QC	IPL004WC		ID8L005142			1	☒	LCS	None
143	117	3	9	5	Unk	K307-07A		ID8L005143			1	☒	unk	---
144	118	3	10	5	Unk	K307-07		ID8L005144			1	☒	unk	---
145	119	3	11	5	Unk	K307-07J		ID8L005145			1	☒	unk	---
146	120	3	12	5	Unk	K307-09		ID8L005146			1	☒	unk	---
147	121	4	1	1	Unk	K307-11		ID8L005147			1	☒	unk	---
148	122	4	2	1	Unk	K309-03		ID8L005148			1	☒	unk	---
149	123	4	3	1	Unk	K309-04		ID8L005149			1	☒	unk	---
150	124	4	4	1	QC	CCV13		ID8L005150			1	☒	CCV	None
151	125	4	5	1	QC	CCB13		ID8L005151			1	☒	3XIDL	None
152	126	4	6	1	Unk	K309-05		ID8L005152			1	☒	unk	---
153	127	4	7	1	Unk	K280-01	TOT	ID8L005153			1	☒	unk	---
154	128	4	8	1	Unk	K280-01M	TOT	ID8L005154			1	☒	unk	---
155	129	4	9	1	Unk	K280-01S	TOT	ID8L005155			1	☒	unk	---
156	130	4	10	1	Unk	K280-02	TOT	ID8L005156			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	131	4	11	1	Unk	K280-03	TOT	ID8L005157			1	☒	unk	---
158	132	4	12	1	Unk	K280-01	DISS	ID8L005158			1	☒	unk	---
159	133	4	1	2	Unk	K280-01M	DISS	ID8L005159			1	☒	unk	---
160	134	4	2	2	Unk	K280-01S	DISS	ID8L005160			1	☒	unk	---
161	135	4	3	2	Unk	K280-02	DISS	ID8L005161			1	☒	unk	---
162	136	4	4	2	QC	CCV14		ID8L005162			1	☒	CCV	None
163	137	4	5	2	QC	CCB14		ID8L005163			1	☒	3XIDL	None
164	138	4	6	2	Unk	K280-03	DISS	ID8L005164			1	☒	unk	---
165	139	4	7	2	Unk	K278-12		ID8L005165			1	☒	unk	---
166	140	4	8	2	QC	ICSA3		ID8L005166			1	☒	ICSA	None
167	141	4	9	2	QC	ICSAB3		ID8L005167			1	☒	ICSAB	None
168	142	4	10	2	QC	CCV15		ID8L005168			1	☒	CCV	None
169	143	4	11	2	QC	CCB15		ID8L005169			1	☒	3XIDL	None
170	144	4	12	2	QC	WTK009SB	STLC	ID8L005170			1	☒	1/2LOQ	None
171	145	4	1	3	Unk	K173-05A	STLC	ID8L005171			1	☒	unk	---
172	146	4	2	3	Unk	K173-05	STLC	ID8L005172			1	☒	unk	---
173	147	4	3	3	Unk	K173-05J	STLC	ID8L005173			1	☒	unk	---
174	148	4	4	3	QC	CCV16	⊥Mw	ID8L005174			1	☒	CCV	None
175	149	4	5	3	QC	CCB16		ID8L005175			1	☒	3XIDL	None
176	150	4	6	3	QC	IPL009SB		ID8L005176			1	☒	1/2LOQ	None
177	151	4	7	3	QC	IPL009SL		ID8L005177			1	☒	LCS	None
178	152	4	8	3	QC	IPL009SC		ID8L005178			1	☒	LCS	None
179	153	4	9	3	Unk	L034-01A		ID8L005179			1	☒	unk	---
180	154	4	10	3	Unk	L034-01		ID8L005180			1	☒	unk	---
181	155	4	11	3	Unk	L034-01J		ID8L005181			1	☒	unk	---
182	156	4	12	3	Unk	L034-01M		ID8L005182			1	☒	unk	---
183	157	4	1	4	Unk	L034-01S		ID8L005183			1	☒	unk	---
184	158	4	2	4	Unk	L034-02		ID8L005184			1	☒	unk	---
185	159	4	3	4	Unk	L034-03		ID8L005185			1	☒	unk	---
186	160	4	4	4	QC	CCV17		ID8L005186			1	☒	CCV	None
187	161	4	5	4	QC	CCB17		ID8L005187			1	☒	3XIDL	None
188	162	4	6	4	Unk	K288-05		ID8L005188			1	☒	unk	---
189	163	4	7	4	Unk	K288-10		ID8L005189			1	☒	unk	---
190	164	4	8	4	Unk	K360-02	dried & sieved	ID8L005190			1	☒	unk	---
191	165	4	9	4	Unk	L046-07		ID8L005191			1	☒	unk	---
192	166	4	10	4	Unk	K574-08		ID8L005192			1	☒	unk	---
193	167	4	11	4	Unk	K574-10		ID8L005193			1	☒	unk	---
194	168	4	12	4	Unk	K574-13		ID8L005194			1	☒	unk	---
195	169	4	1	5	Unk	K574-14		ID8L005195			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
196	170	4	2	5	QC	CCV18		ID8L005196			1	☒	CCV	None
197	171	4	3	5	QC	CCB18		ID8L005197			1	☒	3XIDL	None
198	172	4	4	5	Unk	K360-01	XRF	ID8L005198			1	☒	unk	—
199	173	4	5	5	Unk	K360-02	XRF	ID8L005199			1	☒	unk	—
200	174	4	6	5	Unk	K360-03	XRF	ID8L005200			1	☒	unk	—
201	175	4	7	5	Unk	K360-04	XRF	ID8L005201			1	☒	unk	—
202	176	4	8	5	Unk	K360-05	XRF	ID8L005202			1	☒	unk	—
203	177	4	9	5	Unk	K360-06	XRF	ID8L005203			1	☒	unk	—
204	178	4	10	5	QC	CCV19		ID8L005204			1	☒	CCV	None
205	179	4	11	5	QC	CCB19		ID8L005205			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00126	.00002	-.00001	.00041	.00014	.00064	-.00018	.00051	.00002	-.00084	Blank
2	S20					.84035		2.7399				S20
3	S21					8.1541		25.458				S21
4	S22				.54151						.16194	S22
5	S23				5.2940						1.6703	S23
6	S24						.10198					S24
7	S25						1.0632					S25
8	S26	.27864							.83326	.15426		S26
9	S27	10.122							7.6492	1.4432		S27
10	S28		.00537									S28
11	S29		.05349									S29
12	S30			.00143								S30
13	S31			.00574								S31
14	ICV	102.82	1.4780	1.0289	2.0319	1.5032	2.4036	2.0611	75.305	2.3891	.93903	ICV
15	ICB	.00139	.00585	.00052	-.00023	.00000	.00133	-.00009	.00811	-.00002	.00002	ICB
16	MRLL031	.21936	.10228	.01184	.01086	.01068	.00550*	.01069	1.0916	.01071	.00973	MRLL031
17	MRLL032	.22491	.05112	.00955	.00529	.00427	.09114	.00531	.56026	.01035	.00973	MRLL032
18	ICSA1	395.13	.00851	-.00096	.00098	-.00006	.00064	.00026	474.02	.00146	-.00029	ICSA1
19	ICSAB1	397.47	1.0542	1.0826	.53759	.49206	.49914	1.0500	473.65	.47162	.46626	ICSAB1
20	CCV1	103.76	1.4927	1.0364	2.0158	1.4855	2.4649	2.0678	75.365	2.4113	.94889	CCV1
21	CCB1	.00139	.00591	.00097	-.00030	-.00002	.00143	-.00009	.00619	-.00007	.00002	CCB1
22	IPK031WQ	.00704	.00097	.00197	.00073	.00001	.00185	.00003	.00061	-.00004	.00011	IPK031WQ
23	IPK031WX	5.7650	2.6911	.55892	.52047	.51817	.53842	.55244	52.494	.51869	.49933	IPK031WX
24	IPK031WY	5.6508	2.6305	.54606	.51442	.51063	.52438	.54226	51.576	.50230	.48905	IPK031WY
25	K134-01A	5.7018	2.6197	.55376	.66210	.49550	1.0868	.54039	89.566	.51837	.48292	K134-01A
26	K134-01W	.03123	.00892	.00437	.15853	.00006	.57827	.00336	41.337	.02792	-.00014	K134-01W
27	K134-01J	.00420	.00456	.00178	.03155	.00004	.11043	.00063	8.4765	.00568	.00009	K134-01J
28	K134-02W	.00821	.00041	.00150	-.00028	.00010	-.00308	.00006	-.00269	.00007	.00012	K134-02W
29	K134-03W	.00649	.00048	.00170	-.00003	.00015	-.00338	.00008	.00605	.00008	.00020	K134-03W
30	K134-04W	.01366	.00014	.00370	.12317	.00007	.73265	.00012	28.218	.02575	.00000	K134-04W
31	CCV2	102.69	1.4859	1.0242	1.9999	1.4779	2.4260	2.0670	75.290	2.3720	.94716	CCV2
32	CCB2	-.00165	.00657	.00055	-.00004	-.00002	.00127	-.00007	.00695	-.00003	.00003	CCB2
33	K134-01W	.01516	.00125	.00405	.15488	.00010	.57072	.00305	40.852	.02816	-.00018	K134-01W
34	K134-02W	.01053	-.00049	.00205	-.00013	-.00001	-.00334	.00000	.00332	.00007	.00009	K134-02W
35	K134-03W	.00883	.00004	.00171	-.00002	.00004	-.00270	-.00001	.00015	.00002	.00016	K134-03W
36	K134-04W	.02371	-.00074	.00449	.12404	-.00001	.72448	.00005	28.229	.02489	-.00017	K134-04W
37	K270-02	.01473	-.00311	.00416	.13770	.00002	.08364	.00019	419.98	.00132	-.00046	K270-02
38	K270-04	.00962	-.00109	.00223	.14457	.00013	.07300	.00032	108.79	.00043	-.00032	K270-04
39	K270-05	.01503	-.00151	.00268	.13964	.00030	.07299	.00057	105.14	.00082	.00001	K270-05
40	K270-06	.01389	-.00131	.00303	.01717	.00006	.05863	.00015	121.58	.00108	-.00025	K270-06
41	CCV3	103.53	1.4855	1.0331	2.0088	1.4901	2.4510	2.0630	75.600	2.4134	.94382	CCV3
42	CCB3	-.00289	.00616	.00090	-.00031	-.00003	.00101	-.00013	.00722	-.00013	-.00003	CCB3
43	IPK057WB	.00119	.00020	.00188	-.00025	.00002	.00123	.00006	-.01446	.00005	.00013	IPK057WB
44	IPK057WL	5.6550	2.5591	.53917	.50697	.50321	.51460	.53685	53.063	.49654	.47713	IPK057WL
45	IPK057WC	5.7581	2.6684	.54824	.51634	.51278	.52854	.54751	52.595	.50477	.48711	IPK057WC
46	K236-01A	5.6768	2.4874	.53835	.56551	.50096	.56418	.53528	106.16	.49029	.47833	K236-01A
47	K236-01	.01023	.01657	.00271	.06027	.00002	.05576	.00012	57.304	.00041	-.00041	K236-01
48	K236-01J	-.00087	.00681	.00119	.01167	.00005	.01027	-.00001	11.507	.00022	-.00010	K236-01J
49	K236-03	.01564	-.00021	.00400	.04184	-.00003	.07160	.00004	98.053	.00039	-.00043	K236-03
50	K234-02	.01463	-.00018	.00626	.00498	-.00004	.05819	.00004	74.900	.00118	-.00018	K234-02
51	K234-03	.01345	-.00059	.00553	.00450	.00001	.05515	.00007	72.618	.00112	-.00033	K234-03
52	K234-04	.01214	-.00033	.00238	.01525	-.00002	.06112	.00007	91.311	.00057	-.00045	K234-04
53	CCV4	102.55	1.4813	1.0272	2.0095	1.4875	2.4086	2.0720	75.701	2.3649	.94082	CCV4

54	CCB4	.00063	.00774	.00030	-.00027	-.00001	.00110	-.00008	.00414	.00000	.00002	CCB4
55	IPK062WB	-.00257	.00296	.00112	-.00010	.00001	-.00017	-.00005	-.00618	-.00006	.00010	IPK062WB
56	IPK062WL	5.3723	2.4424	.51416	.48324	.48479	.49116	.51202	49.783	.47492	.45359	IPK062WL
57	IPK062WC	5.4259	2.5470	.52932	.49760	.50411	.50475	.52201	50.331	.48502	.46316	IPK062WC
58	K294-01A	5.6766	2.4948	.55088	.59427	.48965	.64515	.52967	188.92	.48684	.47177	K294-01A
59	K294-01	.01085	.01773	.00862	.09554	.00018	.14552	.00011	144.27	.00056	-.00005	K294-01
60	K294-01J	.00137	.00889	.00421	.01900	.00000	.02770	-.00006	29.907	.00024	.00006	K294-01J
61	K294-01M	5.6676	2.6160	.55039	.60626	.50387	.65410	.53527	192.98	.48595	.47529	K294-01M
62	K294-01S	5.7805	2.6464	.55954	.60766	.50347	.66098	.53628	192.43	.49693	.47772	K294-01S
63	K294-02	.01157	.01154	.00423	.05449	.00004	.14389	.00009	177.80	.00287	-.00014	K294-02
64	K294-03	.01389	.00434	.00492	.07987	.00006	.16118	.00021	146.87	.00107	-.00026	K294-03
65	CCV5	103.52	1.4890	1.0447	2.0209	1.5055	2.4560	2.0643	76.493	2.4467	.93685	CCV5
66	CCB5	.00022	.00859	.00105	-.00036	.00001	.00143	-.00004	.00041	-.00001	.00006	CCB5
67	IPK057WX	4.9617	2.4556	.50349	.48416	.49487	.46097	.51829	51.068	.48780	.46512	IPK057WX
68	IPK057WY	5.0039	2.4501	.50858	.49272	.50393	.45941	.52863	51.116	.49831	.47431	IPK057WY
69	K294-04	.01052	.00421	.00416	.11924	.00004	.15047	.00029	150.81	.00092	.00005	K294-04
70	K294-05	.01146	.00068	.00227	.01390	-.00001	.15348	.00013	102.68	.00105	-.00040	K294-05
71	K294-06	.01146	-.00037	.00790	.00704	.00001	.18779	.00016	93.387	.00371	-.00040	K294-06
72	K234-07	.01093	-.00036	.00422	.05721	.00000	.06922	.00006	98.564	.00079	-.00032	K234-07
73	ICSA2	385.20	.00607	.00016	.00108	.00011	.00239	-.00124	473.29	.00158	-.00060	ICSA2
74	ICSAB2	384.78	1.0182	1.0594	.52512	.48775	.47972	1.0216	472.24	.46462	.44735	ICSAB2
75	CCV6	103.79	1.4755	1.0451	2.0256	1.5093	2.4492	2.0657	76.523	2.4474	.93492	CCV6
76	CCB6	-.00080	.00732	.00116	-.00032	.00001	.00113	-.00007	.00313	-.00001	.00014	CCB6
77	IPK063WB	.00306	.00006	.00216	-.00020	.00002	.00121	.00007	-.01247	-.00007	.00025	IPK063WB
78	IPK063WL	4.9162	2.3642	.50016	.48550	.49455	.43994	.52055	50.509	.49056	.46738	IPK063WL
79	IPK063WC	4.8569	2.3493	.49210	.47952	.49123	.43898	.51263	49.577	.48147	.45943	IPK063WC
80	K267-01A	5.7379	2.4831	.55888	.54709	.50266	1.0787	.53254	77.154	.52650	.47170	K267-01A
81	K267-01	.04265	.01682	.00368	.04049	.00001	.57114	.00002	27.001	.01973	-.00013	K267-01
82	K267-01J	.01259	.00792	.00210	.00846	.00001	.11259	-.00009	5.5443	.00415	.00008	K267-01J
83	K237-01	.01312	.00010	.00247	.02220	-.00001	.04724	.00008	99.001	.00264	-.00028	K237-01
84	K237-02	.01283	-.00008	.00299	.02207	.00004	.04822	.00007	99.855	.00242	-.00033	K237-02
85	K237-03	.01387	-.00082	.00080	.02788	-.00003	.03397	.00004	111.43	.00114	.00161	K237-03
86	CCV7	104.41	1.4845	1.0649	2.0382	1.5150	2.4993	2.0670	76.655	2.5076	.93792	CCV7
87	CCB7	.00262	.00672	.00092	-.00019	.00000	.00116	-.00010	.00383	-.00004	.00013	CCB7
88	K267-01M	5.9367	2.6428	.57212	.56487	.51644	1.1263	.54556	79.491	.53831	.48158	K267-01M
89	K267-01S	5.7395	2.5965	.55996	.54967	.50594	1.0881	.53140	77.084	.52875	.47120	K267-01S
90	K267-02	.01169	.01188	.00189	.00048	.00003	-.00412	.00001	.02601	.00007	.00016	K267-02
91	K267-03	.02826	.00121	.00474	.04648	.00002	.31601	.00003	34.582	.24485	-.00028	K267-03
92	K267-04	.02767	.00148	.00493	.09019	.00008	.35322	.00003	28.254	.05721	-.00016	K267-04
93	K267-05	.03127	-.00009	.00617	.09218	.00019	.36604	.00020	29.104	.05896	-.00016	K267-05
94	K267-01	.02713	-.00058	.00461	.04132	.00002	.60981	.00003	27.571	.02074	-.00017	K267-01
95	K267-02	.01116	-.00045	.00277	.00003	.00004	-.00466	.00001	.00823	.00001	.00007	K267-02
96	K267-03	.05661	-.00283	.00521	.04920	.00004	.33705	.00013	36.366	.25827	-.00016	K267-03
97	K267-04	.01895	-.00050	.00541	.09016	.00009	.35846	.00008	28.455	.05740	-.00033	K267-04
98	CCV8	103.65	1.4705	1.0573	2.0475	1.5281	2.4769	2.0680	77.078	2.4960	.93616	CCV8
99	CCB8	.00345	.00583	.00014	-.00030	.00002	.00149	-.00008	.00092	-.00002	.00020	CCB8
100	K267-05	.01870	.00043	.00596	.09098	.00004	.35889	.00004	28.882	.05840	-.00025	K267-05
101	K262-17	.01161	.00048	.00144	.00010	.00001	-.00444	-.00006	.01757	.00020	.00011	K262-17
102	K271-01	.01800	-.00021	.00649	.01448	.00010	.04739	.00009	72.165	.00194	-.00022	K271-01
103	K271-02	.01856	-.00087	.00705	.00217	.00002	.02366	.00018	65.768	.00089	-.00036	K271-02
104	K271-03	.01817	-.00117	.00273	.15424	.00001	.02293	.00004	270.34	.00055	-.00062	K271-03
105	K271-04	.01832	-.00103	.00195	.01478	.00004	.04274	.00010	73.324	.00134	-.00024	K271-04
106	K271-05	.01568	-.00086	.00485	.00427	.00003	.03813	.00014	66.715	.00056	-.00026	K271-05
107	CCV9	102.81	1.4566	1.0428	2.0480	1.5283	2.4276	2.0739	76.833	2.4460	.93358	CCV9
108	CCB9	.00742	.00564	.00009	-.00019	-.00002	.00081	-.00008	.01028	.00002	-.00004	CCB9
109	IPK056WB	.00901	.00161	.00136	.00005	.00001	.00116	-.00004	.01603	.00014	-.00002	IPK056WB

110	IPK056WL	4.8573	2.2894	.48970	.48188	.48871	.43113	.51242	49.183	.47906	.45678	IPK056WL
111	IPK056WC	4.9204	2.3351	.49887	.48243	.49040	.44179	.51139	49.273	.48731	.45738	IPK056WC
112	K211-02A	19.287	2.7681	.62640	.60195	.50386	1.2838	.53566	138.72	2.7926	.47883	K211-02A
113	K211-02	13.264	-.01288	.00413	.08729	.00396	.75802	.00087	93.726	2.3086	.00944	K211-02
114	K211-02J	2.4415	-.00165	.00301	.01719	.00084	.14824	.00007	19.231	.48189	.00200	K211-02J
115	K211-02M	20.113	2.8780	.63969	.61760	.51272	1.3454	.54320	142.80	2.9116	.48380	K211-02M
116	K211-02S	20.051	2.8979	.64003	.61644	.51210	1.3404	.54233	142.69	2.9018	.48225	K211-02S
117	K211-03	11.025	-.01649	.00096	.07998	.00352	.77412	.00089	89.982	2.6575	.00860	K211-03
118	K211-04	2.2096	.00540	.00167	.09288	.00214	.60657	.00088	120.68	.00405	.01940	K211-04
119	CCV10	102.38	1.4482	1.0421	2.0314	1.5112	2.4023	2.0607	76.670	2.4300	.92289	CCV10
120	CCB10	.00005	.00544	.00061	-.00034	.00000	.00105	-.00004	-.01028	.00000	-.00001	CCB10
121	K211-05	1.6360	.00515	.00042	.10097	.00206	.66416	.00099	133.62	.00245	.01985	K211-05
122	K240-02	.01285	.00112	.00759	.22294	-.00002	1.3075	-.00006	26.165	.00079	.00016	K240-02
123	K240-03	.01477	.00140	.00776	.22412	.00000	1.3131	-.00002	26.190	.00087	.00024	K240-03
124	K240-04	.01677	.00141	.00849	.17757	-.00003	1.3088	-.00006	20.630	.00078	.00081	K240-04
125	K240-05	.01239	.00000	.00627	.13965	.00001	1.4086	-.00006	27.086	.00114	.00030	K240-05
126	K236-02	.01809	.00163	.00494	.06480	.00001	.06933	-.00002	162.42	.00119	-.00044	K236-02
127	CCV11	102.19	1.4479	1.0358	2.0418	1.5110	2.3960	2.0636	76.587	2.4248	.92351	CCV11
128	CCB11	-.00122	.00501	.00094	-.00023	.00000	.00137	-.00009	-.01226	.00005	.00003	CCB11
129	IPK064WB	.00165	-.00047	.00263	-.00018	.00005	.00141	.00009	-.01220	.00001	.00015	IPK064WB
130	IPK064WL	5.6924	2.5134	.55062	.51598	.51469	.51136	.53826	54.134	.50944	.46968	IPK064WL
131	IPK064WC	5.7574*	2.6161	.55734	.52744	.52628	.52103	.54960	53.696	.51605	.47928	IPK064WC
132	K709-01A	11.270	5.0415	1.1230	1.0627	1.0023	1.3462	1.0675	131.82	.99323	.93754	K709-01A
133	K709-01	.02298	.02378	.00288	.04216	.00014	.36605	.00022	84.421	.00092	.00017	K709-01
134	K709-01D	.02407	.00645	.00234	.04282	.00003	.37934	.00008	86.033	.00071	.00003	K709-01D
135	K709-01J	.00709	.00788	.00101	.00838	.00016	.06982	.00018	16.933	.00039	.00010	K709-01J
136	K709-01M	5.7601	2.6317	.57280	.56572	.50855	.88099	.54361	135.39	.51294	.48157	K709-01M
137	K709-01S	5.6997	2.6442	.57078	.55402	.50298	.89774	.53469	134.41	.50933	.47202	K709-01S
138	CCV12	102.45	1.4586	1.0393	2.0465	1.5096	2.4079	2.0660	76.367	2.4380	.92520	CCV12
139	CCB12	.00828	.00925	.00215	.00024	.00015	.00147	.00004	.38262	.00017	.00011	CCB12
140	IPL004WB	.00432	.00283	.00224	.00036	.00002	-.00410	.00004	.01371	.00010	.00013	IPL004WB
141	IPL004WL	5.5236	2.5282	.54149	.51250	.51353	.49849	.53541	52.950	.50458	.46973	IPL004WL
142	IPL004WC	5.4251	2.6043	.53215	.50878	.50833	.50853	.53056	51.490	.49998	.46790	IPL004WC
143	K307-07A	5.6184	2.4993	.57911	.85548	.50829	.53456	.53176	119.07	.49972	.46969	K307-07A
144	K307-07	.05920	.00828	.03530	.35231	.00029	.03693	.00047	71.215	.00233	.00234	K307-07
145	K307-07J	.01255	.00461	.00849	.07133	.00018	.00676	.00017	14.371	.00070	.00066	K307-07J
146	K307-09	.01849	.00111	.04706	.37147	.00010	.03621	.00028	70.862	.00079	.00323	K307-09
147	K307-11	.63538	.00202	.00188	.17811	.00021	.11887	.00068	120.18	.00589	.00089	K307-11
148	K309-03	.37269	-.00026	.00504	.01738	.00017	.02952	.00011	10.742	.00384	.00037	K309-03
149	K309-04	.08052	.00068	.00185	.02013	.00011	.04068	.00012	15.802	.01744	.00014	K309-04
150	CCV13	102.59	1.4528	1.0384	2.0457	1.5076	2.3949	2.0674	76.194	2.4243	.92358	CCV13
151	CCB13	.00035	.00490	.00117	-.00030	-.00002	.00065	-.00005	-.01429	-.00004	.00011	CCB13
152	K309-05	.07396	.00202	.00290	.02048	.00003	.04226	.00005	16.119	.01907	.00013	K309-05
153	K280-01	.05425	-.00112	.00430	.19060	.00002	.30367	.00005	48.919	.08942	-.00013	K280-01
154	K280-01M	5.6528	2.5761	.55788	.69727	.50644	.80469	.53203	96.476	.58355	.46435	K280-01M
155	K280-01S	5.8358	2.6609	.57434	.72185	.52425	.82328	.55138	100.06	.60367	.48251	K280-01S
156	K280-02	.00665	.00537	.00171	-.00016	-.00001	-.00432	-.00003	.04761	.00009	.00000	K280-02
157	K280-03	.01710	.00030	.00414	.08549	.00005	.29847	.00008	43.413	.14423	-.00029	K280-03
158	K280-01	.01525	-.00009	.00448	.18559	.00005	.29101	.00005	48.467	.08798	-.00019	K280-01
159	K280-01M	5.7171	2.6262	.56740	.71169	.51764	.80855	.54669	99.729	.59179	.47644	K280-01M
160	K280-01S	5.7739	2.6695	.57281	.71401	.51939	.81883	.55055	100.42	.59331	.47971	K280-01S
161	K280-02	.00682	.00662	.00158	.00066	.00006	-.00421	.00003	.04384	.00004	.00008	K280-02
162	CCV14	102.09	1.4587	1.0329	2.0416	1.5010	2.3913	2.0659	76.259	2.4120	.92246	CCV14
163	CCB14	-.00105	.00548	.00078	-.00018	.00002	.00105	-.00005	-.01591	-.00001	.00009	CCB14
164	K280-03	.01337	.00118	.00326	.08238	.00004	.28851	.00003	41.963	.13889	-.00031	K280-03
165	K278-12	.00399	.00084	.00161	.00001	.00002	-.00460	-.00006	.03511	.00011	.00005	K278-12

166	ICSA3	380.44	.00886	.00190	.00103	.00007	.00388	-.00112	474.72	.00157	-.00051	ICSA3
167	ICSAB3	383.58	1.0081	1.0581	.53714	.48965	.47332	1.0356	471.93	.46044	.44947	ICSAB3
168	CCV15	102.32	1.4551	1.0350	2.0430	1.5001	2.3815	2.0666	76.120	2.4021	.92313	CCV15
169	CCB15	-.00151	.00469	.00125	-.00025	.00001	.00074	-.00005	-.01332	.00003	.00000	CCB15
170	WTK009SB	.02228	-.00490	.00472	.04695*	-.00003	.01336	-.00014	.05829	.00321	.00007	WTK009SB
171	K173-05A	7.7734	2.7325	.68318	.79856	.48501	.52038	.55531	72.969	.61138	.48707	K173-05A
172	K173-05	2.1164	.00196	.00803	.28751	.00045	.01006	.00472	25.336	.09982	.01213	K173-05
173	K173-05J	.41428	.00148	.00286	.05680	.00007	.00192	.00088	5.1827	.02003	.00245	K173-05J
174	CCV16	102.21	1.4543	1.0400	2.0517	1.4982	2.3922	2.0631	76.272	2.4208	.92215	CCV16
175	CCB16	-.00133	.00473	.00156	-.00033	-.00001	.00074	-.00009	-.01515	-.00005	.00008	CCB16
176	IPL009SB	-.00017	.00357	-.00006	.00008	.00011	-.00467	-.00005	.01713	.00030	.00014	IPL009SB
177	IPL009SL	5.0671	2.4118	.51375	.50811	.50633	.44813	.53709	51.526	.49883	.47572	IPL009SL
178	IPL009SC	5.1376	2.4506	.51999	.51158	.50987	.45712	.54014	51.537	.50394	.47807	IPL009SC
179	L034-01A	256.47	2.3161	.66319	5.3184	.51100	.48688	.52401	184.21	.67506	.52855	L034-01A
180	L034-01	251.41	.03360	.16730	4.9217	.00861	.05450	-.00434	138.62	.21580	.06252	L034-01
181	L034-01J	56.065	.00846	.03646	.99188	.00175	.01065	-.00182	28.979	.04661	.01275	L034-01J
182	L034-01M	265.65	2.2217	.62843	5.8078	.49463	.42825	.50450	259.51	.64046	.48878	L034-01M
183	L034-01S	245.48	2.2694	.62070	4.6867	.50460	.42942	.51631	180.38	.71107	.50968	L034-01S
184	L034-02	261.54	-.00278	.19926	5.5930	.00821	.05523	-.00501*	154.68	.17778	.04945	L034-02
185	L034-03	178.83	.03281	.10569	2.7475	.00631	.03747	-.00375	72.583	.19852	.06819	L034-03
186	CCV17	102.06	1.4613	1.0362	2.0447	1.4942	2.3669	2.0635	76.664	2.4038	.91808	CCV17
187	CCB17	-.00403	.00528	.00198	-.00028	-.00001	.00063	-.00008	-.01510	-.00003	.00007	CCB17
188	K288-05	27.264	.00880	.02000	.13889	.00160	.00318	.00239	8.0718	.19010	.01448	K288-05
189	K288-10	30.339	.00288	.01715	.13135	.00139	.00218	-.00014	6.4470	.14058	.01293	K288-10
190	K360-02	77.098	.01712	.11135	1.3544	.00882	.02358	.16458	31.725	.30004	.12104	K360-02
191	L046-07	81.709	-.00541	.02546	.96349	.00343	.01776	-.00171	32.475	.13995	.06803	L046-07
192	K574-08	.00365	.00762	-.00031	.00051	-.00008	.28907	.00006	1.7955	.00044	.00011	K574-08
193	K574-10	.00519	.00068	.00027	.00025	.00005	-.00408	.00229	.98134	.00054	.00012	K574-10
194	K574-13	-.00316	.00262	.00144	.00703	-.00015	.15869	-.00014	2.4065	.00029	.00001	K574-13
195	K574-14	.18686	.00163	.00073	.86991	.00137	-.00370	.00061	1.2815	.00095	.08134	K574-14
196	CCV18	103.80	1.4658	1.0565	2.0656	1.4969	2.4407	2.0591	76.254	2.4768	.92268	CCV18
197	CCB18	.00086	.00990	.00650*	-.00009	.00000	.00282	-.00043	-.01274	.00080	-.00040	CCB18
198	K360-01	56.126	.01975	.08813	.76896	.00709	.01286	.28306	43.209	.26603	.04653	K360-01
199	K360-02	64.933	.01484	.08303	2.3781	.00753	.01008	.16581	28.232	.16119	.12999	K360-02
200	K360-03	47.922	.00601	.05210	.76292	.00457	.00487	.00560	16.646	.13792	.04839	K360-03
201	K360-04	65.115	.00578	.06249	1.0126	.00533	.00618	-.00003	16.866	.15298	.08835	K360-04
202	K360-05	94.341	.00876	.08229	1.0225	.00885	.01559	.01231	33.546	.26206	.07979	K360-05
203	K360-06	105.05	.00855	.08631	1.5319	.01031	.00988	.00448	31.704	.18562	.13217	K360-06
204	CCV19	103.71	1.4769	1.0680	2.0788	1.5036	2.4835	2.0603	76.551	2.5312	.92542	CCV19
205	CCB19	.00216	.00486	.00101	-.00025	.00001	.00124	-.00006	-.01464	.00004	.00016	CCB19
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00142	.00003	.00010	.00005	.00000	.00002	.00024	-.00039	-.00017	.00000	Blank
2	S20			.19650			.09563					S20
3	S21			1.9496			.94039					S21
4	S22	.36623	.06115									S22
5	S23	3.5488	2.3302									S23
6	S24							.74430				S24
7	S25							7.4449				S25
8	S26								.83095	.38531		S26
9	S27								7.5449	3.7306		S27
10	S28					.09261						S28
11	S29					.37639						S29
12	S30				.03149						.00157	S30
13	S31				.15712						.00629	S31
14	ICV	2.5379	24.308	2.3922	.52129	57.896	2.3789	2.4961	2.4751	59.988	1.0352	ICV
15	ICB	-.00021	-.00521	-.00037	.00020	.00210	.00004	.00213	-.00017	.00862	.00055	ICB
16	MRLL031	.01067	.21637	.01038	.00993	.99900	.01129	.01105	.01078	.99632	.00992	MRLL031
17	MRLL032	.01075	.10390	.00261	.10254	.20915	.00560	.01040	.01060	.99611	.00935	MRLL032
18	ICSA1	.00213	188.56	-.00018	.00562	193.52	.00096	-.00158	-.00072	.05876	.00069	ICSA1
19	ICSAB1	.54219	188.10	.92781	1.1112	193.30	.46279	1.0326	.98322	79.988	1.0871	ICSAB1
20	CCV1	2.5556	24.964	2.3824	.52192	56.912	2.3449	2.5138	2.4806	59.636	1.0515	CCV1
21	CCB1	.00000	-.00430	-.00037	-.00030	.00792	.00002	.00203	-.00018	.00296	-.00026	CCB1
22	IPK031WQ	.00032	.00153	-.00025	-.00046	.00562	.00012	.00026	.00030	.01315	.00015	IPK031WQ
23	IPK031WX	.54093	5.5295	.51882	.00039*	49.879	.50501	.52517	.53461	52.157	.55756	IPK031WX
24	IPK031WY	.52559	5.4065	.51007	-.00025*	49.199	.49605	.51416	.52445	51.298	.54793	IPK031WY
25	K134-01A	.53010	5.2867	.51629	.03595	118.40	.49495	.51330	.51541	52.523	.55715	K134-01A
26	K134-01W	.00433	-.00064	.01863	.03488	71.616	.01140	.00216	.00159	1.4006	.01042	K134-01W
27	K134-01J	.00087	-.00230	.00335	.00676	14.249	.00250	.00055	.00023	.27542	.00298	K134-01J
28	K134-02W	.00029	.00169	-.00042	-.00061	.00441	.00015	-.00007	.00029	.01061	.00038	K134-02W
29	K134-03W	.00030	-.00102	-.00042	-.00044	.01194	.00033	-.00013	.00075	-.00706	-.00089	K134-03W
30	K134-04W	.00192	-.01136	.01776	.02704	55.945	.00499	.00104	.00171	1.2441	.00951	K134-04W
31	CCV2	2.5187	24.829	2.3889	.51782	56.785	2.3195	2.5269	2.4787	59.067	1.0309	CCV2
32	CCB2	-.00005	-.00291	-.00039	.00037	.00357	.00003	.00182	-.00007	.01304	-.00022	CCB2
33	K134-01W	.00336	-.01595	.01701	.03442	71.795	.01143	.00181	.00175	1.3198	.01026	K134-01W
34	K134-02W	.00029	-.00316	-.00017	-.00018	.00412	.00001	-.00001	.00026	.00417	.00014	K134-02W
35	K134-03W	.00022	-.00217	.00019	-.00029	.00389	.00014	-.00001	.00025	-.00089	-.00090	K134-03W
36	K134-04W	.00175	.00509	.01717	.02652	56.278	.01194	.00092	.00196	1.2324	.00939	K134-04W
37	K270-02	.00165	.00049	.02684	.01894	6.1125	.00053	.00249	.00472	2.9514	.00239	K270-02
38	K270-04	.00119	-.00059	.03489	.00527	7.6776	.24331	.00176	.00350	.55760	-.00013	K270-04
39	K270-05	.00122	.00042	.03419	.00545	7.2109	.23485	.00169	.00356	.54753	-.00018	K270-05
40	K270-06	.00098	-.00433	.02619	.00727	1.1123	.00025	.00011	.00030	1.2654	.00280	K270-06
41	CCV3	2.5351	25.058	2.3787	.52028	57.267	2.3404	2.5006	2.4714	59.328	1.0418	CCV3
42	CCB3	-.00009	-.00531	-.00029	.00004	.00559	.00003	.00195	-.00015	.02418	.00003	CCB3
43	IPK057WB	.00033	-.00461	.00015	-.00077	.00321	.00006	.00018	.00023	.00422	-.00058	IPK057WB
44	IPK057WL	.51326	5.3809	.50394	-.00027*	51.074	.48806	.49563	.51417	52.363	.54105	IPK057WL
45	IPK057WC	.52319	5.4728	.51505	.00011*	50.648	.49785	.51305	.52559	51.803	.54782	IPK057WC
46	K236-01A	.51791	5.2678	.53386	.00480	51.533	.48645	.50153	.51224	51.041	.53569	K236-01A
47	K236-01	.00063	.00544	.03278	.00436	3.0476	.00023	.00187	.00019	.47018	-.00004	K236-01
48	K236-01J	.00004	.00107	.00584	.00062	.62504	.00005	.00074	-.00009	.10795	-.00052	K236-01J
49	K236-03	.00137	.00478	.02890	.00946	3.2487	.00035	.00168	.00044	.94340	.00322	K236-03
50	K234-02	.00089	.01531	.02060	.00634	1.6502	.00026	.01370	.00021	1.9576	.00171	K234-02
51	K234-03	.00085	-.00056	.02035	.00645	1.6040	.00005	.01266	.00021	1.8704	.00221	K234-03
52	K234-04	.00070	.00084	.03078	.00698	.81867	.00027	.00023	.00030	.88321	.00054	K234-04
53	CCV4	2.4988	24.821	2.3927	.51714	57.512	2.3283	2.5169	2.4725	59.000	1.0338	CCV4

54	CCB4	-.00009	-.00539	.00007	-.00013	-.00012	.00006	.00210	-.00029	.03567	.00010	CCB4
55	IPK062WB	-.00009	-.00137	-.00007	-.00018	.00609	.00015	.00050	-.00026	.00072	.00018	IPK062WB
56	IPK062WL	.48881	5.1454	.48106	.00009*	47.977	.46584	.47738	.48961	48.975	.51302	IPK062WL
57	IPK062WC	.50370	5.2154	.48810	.00005*	48.481	.47675	.48976	.49913	49.422	.53069	IPK062WC
58	K294-01A	.51556	7.6523	.51720	.03175	94.161	1.3637	.51373	.50418	52.750	.53158	K294-01A
59	K294-01	.00091	2.5287	.02501	.03078	46.723	.90579	.01345	.00092	2.2500	-.00037	K294-01
60	K294-01J	.00009	.51357	.00443	.00566	9.4753	.18631	.00301	-.00010	.44964	-.00066	K294-01J
61	K294-01M	.51912	7.6634	.51788	.03254	96.989	1.3834	.52871	.50955	54.067	.53176	K294-01M
62	K294-01S	.52754	7.7397	.51992	.03225	96.914	1.3848	.52658	.51130	54.720	.54152	K294-01S
63	K294-02	.00201	-.00696	.02305	.02214	36.095	.00191	.01234	.07037	1.7762	.03873	K294-02
64	K294-03	.00133	-.00639	.02445	.02759	38.322	.00019	.03877	.00103	1.7113	.00843	K294-03
65	CCV5	2.5364	25.163	2.3796	.52166	58.566	2.3738	2.4709	2.4596	59.845	1.0520	CCV5
66	CCB5	-.00016	-.00600	-.00005	.00051	-.00198	-.00007	.00221	-.00019	.02714	.00056	CCB5
67	IPK057WX	.48357	5.0958	.47555	.00041*	49.329	.47455	.51372	.49809	48.983	.49382	IPK057WX
68	IPK057WY	.49208	5.1949	.48333	.00008*	49.421	.48374	.51685	.50747	49.080	.50027	IPK057WY
69	K294-04	.00104	-.01340	.02285	.02961	43.950	.00307	.01220	.09395	3.0738	.00033	K294-04
70	K294-05	.00102	-.00648	.02027	.02617	40.871	.00050	.03911	.00045	4.3734	.00632	K294-05
71	K294-06	.00096	-.00777	.02748	.00619	26.955	.00014	.06866	.00024	.87726	.00749	K294-06
72	K234-07	.00084	-.00571	.02476	.01190	16.674	.00010	.01269	.00070	1.2167	.00718	K234-07
73	ICSA2	.00178	187.89	-.00159	.00639	194.53	.00093	-.00144	-.00078	.10689	.00054	ICSA2
74	ICSAB2	.51611	185.33	.90478	1.0740	194.69	.45646	.98903	.94833	77.926	1.0557	ICSAB2
75	CCV6	2.5313	25.122	2.3767	.52241	58.613	2.3771	2.4680	2.4535	59.973	1.0494	CCV6
76	CCB6	-.00019	-.00490	-.00037	.00012	-.00468	.00002	.00231	-.00016	.03540	.00015	CCB6
77	IPK063WB	.00008	-.00398	-.00004	-.00054	.00968	.00013	.00015	.00008	.01155	-.00125	IPK063WB
78	IPK063WL	.48638	5.1025	.47560	.00038*	48.835	.47676	.50225	.50024	48.486	.48851	IPK063WL
79	IPK063WC	.47903	5.0114	.46734	-.00019*	47.956	.47061	.49793	.49162	47.646	.48282	IPK063WC
80	K267-01A	.52041	5.3624	.50674	.03523	125.40	.49902	.49279	.50383	52.453	.55042	K267-01A
81	K267-01	.00076	.01526	.01569	.03440	75.872	.00231	.00348	.00043	.53151	.00537	K267-01
82	K267-01J	.00033	.01171	.00291	.00636	15.055	.00080	.00085	.00017	.12476	.00127	K267-01J
83	K237-01	.00048	.00021	.02896	.00669	2.8541	.00091	.00554	.12746	1.2260	.00324	K237-01
84	K237-02	.00060	-.00069	.03010	.00669	2.8770	.00091	.00552	.12664	1.2455	.00395	K237-02
85	K237-03	.00134	.01163	.03230	.01406	3.4143	.01211	.00825	1.0439	1.1264	.00147	K237-03
86	CCV7	2.5853	25.280	2.3718	.52721	58.974	2.4029	2.4506	2.4591	60.443	1.0678	CCV7
87	CCB7	-.00027	-.00386	.00009	.00009	.00546	.00006	.00205	-.00020	.02210	.00014	CCB7
88	K267-01M	.53557	5.4911	.51788	.03707	129.59	.50770	.50933	.51559	54.090	.56460	K267-01M
89	K267-01S	.52585	5.3489	.50357	.03544	125.28	.49653	.49908	.50371	52.681	.54921	K267-01S
90	K267-02	.00018	-.00421	-.00007	-.00068	-.00004	.00019	.00085	.00017	.02788	-.00116	K267-02
91	K267-03	.00125	-.01426	.01377	.03577	83.024	.00139	.00148	.00016	.77696	.01228	K267-03
92	K267-04	.00051	-.00074	.01477	.02865	62.294	.00190	.00284	.00031	.42166	.00744	K267-04
93	K267-05	.00061	.00081	.01614	.02899	64.127	.00191	.00292	.00063	.46874	.00682	K267-05
94	K267-01	.00093	-.01162	.01590	.03563	77.989	.00077	.00243	.00036	.56712	.00570	K267-01
95	K267-02	.00013	-.00370	.00024	-.00068	.01282	.00019	-.00013	.00004	.02926	-.00038	K267-02
96	K267-03	.00100	-.00496	.01641	.03749	87.572	.00232	.00117	.00052	.86888	.01351	K267-03
97	K267-04	.00084	-.01319	.01574	.02881	62.172	.00021	.00276	.00020	.47746	.00849	K267-04
98	CCV8	2.5653	25.180	2.3720	.52734	59.724	2.4090	2.4436	2.4552	60.574	1.0585	CCV8
99	CCB8	-.00030	-.00356	-.00012	-.00018	-.00211	.00018	.00192	-.00013	.02346	.00042	CCB8
100	K267-05	.00047	-.01125	.01531	.02942	63.832	.00014	.00320	-.00001	.41355	.00726	K267-05
101	K262-17	.00123	-.00035	-.00010	-.00041	.00078	.00023	.00002	.00012	.00666	-.00097	K262-17
102	K271-01	.00044	.00335	.02000	.00767	4.3901	.00030	.00218	.00052	1.5131	.00043	K271-01
103	K271-02	.00068	.00225	.03006	.00559	2.4272	.00039	.00143	.00023	1.4400	.00083	K271-02
104	K271-03	.00067	-.00153	.03460	.01531	7.0790	.00032	.00117	.00147	1.1221	.00152	K271-03
105	K271-04	.00048	-.00465	.02457	.00548	1.4788	.00018	.00352	.00007	.80370	.00132	K271-04
106	K271-05	.00034	-.00135	.02474	.00479	1.2033	.00028	.00094	.00022	.93594	-.00019	K271-05
107	CCV9	2.5245	24.952	2.3805	.52659	59.717	2.3921	2.4537	2.4505	60.145	1.0427	CCV9
108	CCB9	-.00028	-.00389	-.00023	.00035	.00397	-.00007	.00194	-.00015	.01951	-.00002	CCB9
109	IPK056WB	-.00026	.00414	-.00044	-.00040	.00434	.00024	.00050	-.00001	.01334	-.00047	IPK056WB

110	IPK056WL	.47524	4.9426	.46750	.00006*	48.036	.46978	.48989	.48879	47.493	.47618	IPK056WL
111	IPK056WC	.48242	4.9892	.46685	.00020*	48.074	.47100	.48890	.48907	48.057	.48588	IPK056WC
112	K211-02A	.62388	7.0220	.50809	.18363	327.02	.50173	.50131	.62226	73.519	.70503	K211-02A
113	K211-02	.05885	1.9240	.02988	.18481	283.74	.02126	.00055	.13071	16.647	.09437	K211-02
114	K211-02J	.01137	.38892	.00505	.03382	55.505	.00440	.00011	.02660	3.0235	.01736	K211-02J
115	K211-02M	.64294	7.2343	.51194	.19224	337.48	.50748	.51522	.63453	75.202	.72693	K211-02M
116	K211-02S	.63803	7.2866	.51141	.19195	336.81	.50532	.51734	.63236	75.082	.72709	K211-02S
117	K211-03	.05391	.82898	.02966	.18002	276.93	.01788	.00070	.12244	16.068	.09866	K211-03
118	K211-04	.01249	.08336	.03207	.17069	328.24	.11363	.00135	.08704	15.410	.05594	K211-04
119	CCV10	2.4785	24.983	2.3658	.52294	59.110	2.3304	2.4334	2.4255	59.987	1.0347	CCV10
120	CCB10	-.00035	-.00452	-.00003	.00003	.00306	-.00014	.00188	-.00013	.12075	.00000	CCB10
121	K211-05	.01117	-.01165	.03393	.18862	360.73	.12052	.00199	.09461	16.587	.06033	K211-05
122	K240-02	.00046	.09229	.01277	.04352	59.720	1.7213	.01285	.00405	.89679	.00006	K240-02
123	K240-03	.00082	.09446	.01239	.04352	59.424	1.7166	.01272	.00436	.85102	.00015	K240-03
124	K240-04	.00174	.02953	.00970	.04314	48.313	.96308	.01585	.01005	.73765	.00024	K240-04
125	K240-05	.00065	.01993	.01456	.04760	57.924	.87971	.00610	.00774	.61912	.00006	K240-05
126	K236-02	.00169	.00311	.02584	.01211	5.8208	.00065	.00426	.00047	1.7743	-.00110	K236-02
127	CCV11	2.4688	24.996	2.3685	.52392	59.074	2.3107	2.4372	2.4280	60.026	1.0301	CCV11
128	CCB11	-.00036	-.00226	.00024	.00006	-.00322	.00016	.00195	-.00015	.05380	-.00006	CCB11
129	IPK064WB	.00008	-.00660	.00000	-.00030	.00449	-.00002	.00015	.00012	.04516	-.00142	IPK064WB
130	IPK064WL	.50866	5.4148	.50190	.00049*	52.861	.48414	.48201	.50729	53.664	.54202	IPK064WL
131	IPK064WC	.51513	5.4989	.51218	.00028*	52.538	.49385	.50023	.51765	53.204	.54836	IPK064WC
132	K709-01A	1.0243	10.488	.99180	.00705	84.613	.98402	.98159	1.0016	67.501	1.0882	K709-01A
133	K709-01	.00887	.00423	.01021	.00662	35.493	.03101	.00573	.00182	15.705	.00048	K709-01
134	K709-010	.00877	-.00012	.01073	.00653	36.072	.02992	.00440	.00159	16.056	-.00091	K709-010
135	K709-01J	.00167	.00213	.00200	.00147	6.9699	.00653	.00111	.00043	2.9688	-.00024	K709-01J
136	K709-01M	.53834	5.3361	.50593	.00758	86.407	.51012	.51820	.51429	69.748	.55220	K709-01M
137	K709-01S	.53025	5.3129	.49932	.00734	85.399	.50358	.50862	.50485	69.092	.55218	K709-01S
138	CCV12	2.4856	24.972	2.3683	.52695	58.704	2.2962	2.4386	2.4313	60.349	1.0342	CCV12
139	CCB12	-.00005	.00113	.00031	.00000	.00114	.00037	.00226	.00004	.05483	-.00056	CCB12
140	IPL004WB	-.00011	.00012	-.00020	-.00056	.00702	.00016	.00026	.00053	.04244	-.00085	IPL004WB
141	IPL004WL	.50350	5.3500	.49843	.00062*	51.337	.47658	.49338	.50546	52.462	.52959	IPL004WL
142	IPL004WC	.49845	5.2789	.49301	.00047*	49.930	.47412	.51537	.50284	50.973	.51792	IPL004WC
143	K307-07A	.50679	6.1628	.50161	.00926	64.434	1.5118	.49417	.50386	53.414	.53156	K307-07A
144	K307-07	.00207	.94776	.00801	.00872	15.766	1.0718	.00674	.00385	2.1825	-.00058	K307-07
145	K307-07J	.00025	.19223	.00170	.00160	3.1723	.21861	.00150	.00072	.43365	-.00025	K307-07J
146	K307-09	.00125	1.4236	.00805	.00819	15.542	1.2925	.00598	.00431	2.1500	.00008	K307-09
147	K307-11	.01171	.75078	.02044	.05541	62.926	.06643	.00069	.00302	21.235	-.00143	K307-11
148	K309-03	.00240	.21881	.00621	.00854	1.6619	.02013	.00775	.00494	2.3979	.00121	K309-03
149	K309-04	.00143	.03225	.00752	.01274	3.2572	.00268	.02253	.00191	3.3849	.00198	K309-04
150	CCV13	2.4750	24.918	2.3714	.52755	58.439	2.2784	2.4398	2.4280	60.301	1.0309	CCV13
151	CCB13	-.00032	-.00289	-.00025	-.00009	.00636	-.00005	.00196	-.00025	.02474	-.00052	CCB13
152	K309-05	.00093	.03099	.00777	.01207	3.3306	.00254	.02278	.00094	3.3743	.00093	K309-05
153	K280-01	.00052	.02183	.01343	.03885	108.50	.00277	.00167	.00025	.62886	.01045	K280-01
154	K280-01M	.51243	5.2600	.50227	.03822	153.65	.47234	.49636	.49815	53.309	.55084	K280-01M
155	K280-01S	.53003	5.4392	.51866	.03989	159.28	.48529	.51966	.51680	54.857	.56447	K280-01S
156	K280-02	-.00014	-.00175	-.00018	-.00043	.00702	.00017	.00053	-.00002	.02972	.00068	K280-02
157	K280-03	.00052	-.01786	.01298	.03652	103.78	.00030	.00266	.00022	.55971	.01228	K280-03
158	K280-01	.00065	-.01685	.01348	.03798	107.11	.00019	.00161	.00003	.62625	.00941	K280-01
159	K280-01M	.51826	5.3398	.51585	.03964	158.41	.47723	.51275	.51045	54.693	.55483	K280-01M
160	K280-01S	.52073	5.3889	.51920	.03939	159.44	.47922	.51738	.51391	54.740	.56430	K280-01S
161	K280-02	.00012	.00536	.00003	-.00074	.01104	.00022	.00057	.00010	.02589	-.00087	K280-02
162	CCV14	2.4637	24.913	2.3714	.52757	58.197	2.2602	2.4471	2.4269	60.410	1.0305	CCV14
163	CCB14	-.00026	-.00448	-.00005	.00020	-.00657	.00060	.00195	-.00020	.02375	-.00077	CCB14
164	K280-03	.00059	-.01591	.01270	.03595	99.686	.00015	.00275	.00021	.53444	.01168	K280-03
165	K278-12	-.00005	.00221	-.00003	-.00022	-.00062	.00015	-.00003	.00014	.00545	-.00057	K278-12

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
166	ICSA3	.00160	186.22	-.00141	.00697	193.17	.00102	-.00155	-.00084	.06310	-.00141	ICSA3
167	ICSAB3	.50832	185.59	.91492	1.0993	193.06	.43559	.99787	.95241	79.298	1.0400	ICSAB3
168	CCV15	2.4582	24.883	2.3737	.52682	57.952	2.2545	2.4481	2.4272	60.405	1.0245	CCV15
169	CCB15	-.00026	-.00508	.00003	-.00028	.00390	.00003	.00204	-.00014	.02238	-.00020	CCB15
170	WTK009SB	.00117	.00290	.00027	.00320	.01063	.00007	.00027	-.00032	2.3779*	.02859*	WTK009SB
171	K173-05A	.57255	8.9487	1.2051	.00531	53.744	.82090	.51635	.51197	61.538	.77339	K173-05A
172	K173-05	.01828	3.8620	.74692	.00415	7.6756	.36914	.00069	.00642	4.5309	.02596	K173-05
173	K173-05J	.00359	.79071	.15394	.00104	1.5801	.07448	.00012	.00117	1.1293	.00491	K173-05J
174	CCV16	2.4632	25.000	2.3694	.52982	57.997	2.2317*	2.4369	2.4232	60.893	1.0317	CCV16
175	CCB16	-.00036	-.00380	-.00034	-.00007	.00109	.00010	.00193	-.00023	.15121	.00022	CCB16
176	IPL009SB	-.00026	.00628	-.00024	-.00005	.00353	.00038	.00105	.00023	.11182	.00069	IPL009SB
177	IPL009SL	.48841	5.2244	.48953	.00086*	49.257	.45719	.51403	.50950	50.861	.49617	IPL009SL
178	IPL009SC	.49403	5.2717	.49344	.00043*	49.132	.45938	.51705	.51230	51.067	.50090	IPL009SC
179	L034-01A	.65613	167.21	1.3917	.08085	100.51	2.7349	.50279	.55923	60.044	.49601	L034-01A
180	L034-01	.16231	167.29	.94285	.08049	53.186	2.3554	.00379	.06548	7.7103	.00779	L034-01
181	L034-01J	.03267	36.704	.19605	.01564	10.852	.48749	.00050	.01316	1.5302	.00133	L034-01J
182	L034-01M	.60765	181.64	1.3069	.08283	103.97	2.4574	.49121	.54138	57.153	.45509	L034-01M
183	L034-01S	.64406	190.63	1.5944	.09884	91.083	2.4335	.49883	.54832	56.672	.47014	L034-01S
184	L034-02	.11420	163.85	.67440	.09443	57.574	1.9584	.00447	.04764	7.2558	.00789	L034-02
185	L034-03	.14693	246.21	.56655	.07090	29.508	2.0308	.00449	.06281	8.8752	.00650	L034-03
186	CCV17	2.4220	25.094	2.3702	.52581	58.161	2.2097*	2.4383	2.4153	60.548	1.0245	CCV17
187	CCB17	-.00030	-.00545	.00009	.00009	.00544	-.00001	.00192	-.00017	.01537	-.00014	CCB17
188	K288-05	.03193	51.357	.59172	.01635	5.8575	.50111	.00369	.05830	2.6438	.00074	K288-05
189	K288-10	.02148	48.198	.08966	.01530	5.1013	.36729	.00329	.05791	2.9524	.00069	K288-10
190	K360-02	.17944	229.31	1.3093	.03036	10.030	7.5391	.01005	.10998	5.4062	.00580	K360-02
191	L046-07	.18126	164.60	.04553	.05662	39.983	1.3081	.00387	.06570	24.531	.00124	L046-07
192	K574-08	.02605	.53997	.01805	.00027	.07415	.00117	.31340	.00014	.01354	.00017	K574-08
193	K574-10	.04313	.04968	.00147	-.00028	.00426	.00083	.00114	.00037	-.00055	.00065	K574-10
194	K574-13	.00619	.11911	.00307	-.00013	.00264	.00062	.54139	-.00007	-.00165	-.00075	K574-13
195	K574-14	.29875	.56161	.00203	-.00009	.04808	.00747	.00108	.00221	.03764	.00182	K574-14
196	CCV18	2.5146	25.217	2.3623	.53441	57.752	2.2359*	2.4181	2.4213	61.469	1.0468	CCV18
197	CCB18	-.00090	.01665	.00344	-.00033	.00393	.00042	.00208	.00020	.00098	.00249	CCB18
198	K360-01	.39437	158.81	1.6611	.02322	14.616	3.0320	.00638	.10516	4.9574	.00822	K360-01
199	K360-02	.12815	142.55	.91773	.02570	8.3350	13.100	.00606	.07948	4.1462	.00575	K360-02
200	K360-03	.04944	102.86	.16674	.02206	3.9078	3.5796	.00416	.05908	3.9712	.00384	K360-03
201	K360-04	.03806	121.46	.16685	.02709	4.7842	5.2248	.00527	.05049	4.7575	.00376	K360-04
202	K360-05	.08580	178.02	.79907	.03696	6.9619	3.3021	.00417	.10298	5.8403	.00468	K360-05
203	K360-06	.06325	191.09	.67470	.03827	6.6506	8.9240	.00506	.12594	5.0879	.00374	K360-06
204	CCV19	2.5502	25.417	2.3612	.53666	58.228	2.2578	2.4104	2.4250	61.826	1.0623	CCV19
205	CCB19	-.00040	-.00285	-.00028	.00022	.00293	.00004	.00188	-.00026	-.01302	.00058	CCB19

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00012	.00104	-.00004	-.00023	.00017	.00002	-.00012	.00201	Blank
2	S20									S20
3	S21									S21
4	S22							.15453		S22
5	S23							1.5111		S23
6	S24		1.1948							S24
7	S25		6.9603							S25
8	S26									S26
9	S27									S27
10	S28				.13247					S28
11	S29				1.2733					S29
12	S30	.04541		.14220		.02436	.01534		.60317	S30
13	S31	.22671		.70864		.11696	.07597		5.8068	S31
14	ICV	.49265	62.680	.49147	2.3571	.49469	.49645	1.4429	2.6258	ICV
15	ICB	.00011	.00975	-.00006	.00000	-.00026	.00033	-.00001	-.00163	ICB
16	MRLL031	.01037	1.0719	.01072	.01085	.00011	.01049	.01055	.01247*	MRLL031
17	MRLL032	.00971	.54431	.01065	.01029	.00963	.01007	.01041	.01093	MRLL032
18	ICSA1	.00030	.06559	.02080	-.00258	.00093	.00134	-.00009	-.00085	ICSA1
19	ICSAB1	1.0956	83.532	.51811	.91200	.99607	.98708	.49126	1.0474	ICSAB1
20	CCV1	.49577	62.500	.49101	2.3881	.50913	.49169	1.4855	2.6128	CCV1
21	CCB1	-.00002	.01563	-.00002	.00044	-.00005	.00009	.00005	-.00173	CCB1
22	IPK031WQ	.00017	.01159	.00010	.00095	-.00070	.00006	.00001	-.00024	IPK031WQ
23	IPK031WX	.53619	54.645	.49605	.52563	.52597	.52247	.53983	.55869	IPK031WX
24	IPK031WY	.52232	53.686	.48591	.51875	.51786	.51743	.52510	.54751	IPK031WY
25	K134-01A	.51899	148.28	.96301	.50081	.51103	.50146	.52691	.60385	K134-01A
26	K134-01W	.00002	98.624	.49787	.00045	-.00053	.00069	.00986	.06287	K134-01W
27	K134-01J	.00001	19.647	.10045	.00014	.00013	-.00008	.00196	.01286	K134-01J
28	K134-02W	.00010	.02962	.00010	.00052	-.00063	.00012	.00023	-.00013	K134-02W
29	K134-03W	.00005	.01995	.00008	.00025	-.00102	.00005	.00018	.00072	K134-03W
30	K134-04W	.00006	94.728	.33481	-.00001	-.00061	.00035	.01322	.06962	K134-04W
31	CCV2	.48820	62.092	.48413	2.3999	.51503	.48944	1.4784	2.6136	CCV2
32	CCB2	.00003	.03202	-.00001	.00027	.00053	-.00021	.00007	-.00157	CCB2
33	K134-01W	.00007	97.486	.48710	.00071	-.00102	.00065	.00993	.04649	K134-01W
34	K134-02W	.00009	.04151	.00011	.00025	-.00059	-.00026	.00004	.00252	K134-02W
35	K134-03W	.00023	.02605	.00003	.00025	-.00088	.00016	.00020	-.00033	K134-03W
36	K134-04W	.00000	93.686	.33249	-.00015	-.00094	.00034	.01318	.07587	K134-04W
37	K270-02	-.00018	194.05	.33034	-.00017	-.00130	.00088	.00241	.00054	K270-02
38	K270-04	-.00003	47.153	.16772	.00000	-.00125	.00125	.00523	.00056	K270-04
39	K270-05	.00020	46.210	.15983	-.00001	-.00113	.00088	.00553	.00003	K270-05
40	K270-06	-.00007	63.529	.07420	.00055	-.00130	.00126	.00323	.00020	K270-06
41	CCV3	.49413	62.393	.48650	2.3787	.50848	.49355	1.4868	2.6231	CCV3
42	CCB3	.00011	.05938	-.00011	.00011	.00002	-.00013	.00012	-.00166	CCB3
43	IPK057WB	.00013	.01351	-.00005	.00115	-.00103	-.00022	.00005	-.00206	IPK057WB
44	IPK057WL	.37020*	54.619	.47322	.51453	.50016	.50783	.52024	.54681	IPK057WL
45	IPK057WC	.37769*	54.151	.48752	.52549	.52088	.52441	.53055	.55801	IPK057WC
46	K236-01A	.49301	96.080	.55084	.50366	.50323	.50627	.52461	.54302	K236-01A
47	K236-01	.00002	44.764	.08081	.00001	.00267	.00124	.01138	-.00082	K236-01
48	K236-01J	.00002	8.8072	.01604	-.00030	.00105	-.00002	.00232	-.00177	K236-01J
49	K236-03	.00009	74.293	.10423	.00015	-.00097	.00113	.00859	.00188	K236-03
50	K234-02	-.00007	23.847	.08791	-.00009	-.00112	.00051	.00444	.00218	K234-02
51	K234-03	-.00003	22.966	.08431	.00019	-.00092	.00060	.00448	.00159	K234-03
52	K234-04	.00001	41.484	.06835	-.00054	-.00167	.00076	.00368	.00037	K234-04
53	CCV4	.48449	62.057	.48255	2.3908	.51440	.49251	1.4720	2.6312	CCV4

54	CCB4	.00008	.04560	-.00002	.00034	-.00011	-.00025	-.00001	-.00167	CCB4
55	IPK062WB	.00010	.03346	.00001	-.00044	-.00015	-.00011	.00000	-.00168	IPK062WB
56	IPK062WL	.49256	51.162	.45540	.49227	.48776	.48982	.49721	.52197	IPK062WL
57	IPK062WC	.49948	51.932	.46661	.49550	.49467	.50357	.50327	.53103	IPK062WC
58	K294-01A	.41422	113.90	1.2253	.48992	.49152	.49782	.51120	.53914	K294-01A
59	K294-01	.00002	63.732	.76871	.00049	.00275	.00172	.00016	.00023	K294-01
60	K294-01J	.00010	12.610	.15527	-.00036	.00055	.00066	-.00012	-.00129	K294-01J
61	K294-01M	.51967	116.05	1.2516	.47749	.51217	.51834	.51033	.54652	K294-01M
62	K294-01S	.53323	117.25	1.2590	.47869	.50726	.51647	.51583	.54676	K294-01S
63	K294-02	-.00003	67.350	.71016	.00042	.00046	.00142	.00375	.00222	K294-02
64	K294-03	.00013	92.179	.62824	.00031	-.00003	.00141	.01435	.00100	K294-03
65	CCV5	.49625	62.828	.49005	2.3517	.50116	.49628	1.4808	2.6444	CCV5
66	CCB5	-.00002	.06064	-.00004	-.00010	-.00008	.00005	-.00003	-.00181	CCB5
67	IPK057WX	.46544	51.576	.46791	.46864	.52487	.50769	.49721	.54147	IPK057WX
68	IPK057WY	.47362	51.672	.46889	.47871	.52541	.50667	.50718	.55481	IPK057WY
69	K294-04	-.00011	118.49	.71236	-.00041	-.00041	.00166	.01120	-.00122	K294-04
70	K294-05	.00011	77.282	.32983	.00055	-.00142	.00092	.00223	.00294	K294-05
71	K294-06	.00008	69.165	.29237	.00004	-.00124	.00092	.02636	.00154	K294-06
72	K234-07	-.00001	53.451	.28479	-.00008	-.00116	.00113	.01443	.00168	K234-07
73	ICSA2	.00028	.19785	.02055	-.00119	.00196	.00101	-.00012	.00019	ICSA2
74	ICSAB2	1.0565	81.492	.50188	.87625	.96268	.97193	.47723	1.0348	ICSAB2
75	CCV6	.49558	62.963	.49137	2.3456	.50010	.49559	1.4765	2.6486	CCV6
76	CCB6	.00004	.04907	-.00001	.00053	-.00017	.00033	.00005	-.00194	CCB6
77	IPK063WB	.00010	.01485	-.00007	.00117	-.00119	-.00004	.00007	-.00194	IPK063WB
78	IPK063WL	.46644	51.165	.45742	.46724	.48761	.49314	.49716	.54526	IPK063WL
79	IPK063WC	.45977	50.262	.45615	.46059	.48329	.48971	.48815	.53523	IPK063WC
80	K267-01A	.48333	169.43	.89362	.48139	.48197	.50614	.52788	.55018	K267-01A
81	K267-01	.00042	119.58	.42647	-.00006	.00184	.00102	.01364	-.00035	K267-01
82	K267-01J	.00015	24.313	.08741	-.00013	.00054	.00020	.00272	.00003	K267-01J
83	K237-01	-.00010	45.601	.11263	-.00081	-.00111	.00079	.00676	.00171	K237-01
84	K237-02	.00008	46.120	.11388	-.00059	-.00088	.00070	.00671	.00169	K237-02
85	K237-03	-.00001	73.352	.13485	-.00038	-.00138	.00135	.00350	.00299	K237-03
86	CCV7	.50752	63.453	.49668	2.3267	.49152	.49468	1.4840	2.6470	CCV7
87	CCB7	-.00002	.05520	-.00002	.00009	-.00002	.00027	-.00015	-.00182	CCB7
88	K267-01M	.40094	176.05	.93652	.49004	.49474	.52569	.53606	.56424	K267-01M
89	K267-01S	.53396	170.56	.90977	.47532	.49083	.51211	.52482	.54936	K267-01S
90	K267-02	.00021	.13503	.00007	.00069	.00102	-.00031	.00004	.00714	K267-02
91	K267-03	.00005	149.35	.53760	.00058	-.00034	.00050	.01011	.00734	K267-03
92	K267-04	.00008	105.05	.41032	.00023	-.00051	.00082	.01506	.00090	K267-04
93	K267-05	.00018	109.10	.42370	.00036	-.00070	.00035	.01565	.00202	K267-05
94	K267-01	.00002	122.78	.44056	.00009	-.00084	.00044	.01382	.00178	K267-01
95	K267-02	.00009	.17227	.00003	.00026	-.00063	.00034	-.00006	.00135	K267-02
96	K267-03	.00008	157.38	.56638	.00046	-.00103	.00029	.01073	.00753	K267-03
97	K267-04	.00014	106.74	.41511	-.00004	-.00082	.00048	.01522	.00048	K267-04
98	CCV8	.50308	63.564	.49636	2.3216	.48867	.50017	1.4758	2.6517	CCV8
99	CCB8	.00003	.08691	-.00002	.00043	-.00011	.00006	-.00006	-.00183	CCB8
100	K267-05	-.00005	107.68	.41981	.00022	-.00122	.00014	.01543	.00110	K267-05
101	K262-17	.00027	.06125	.00004	.00008	-.00056	-.00006	.00015	.00153	K262-17
102	K271-01	.00011	31.864	.10947	.00025	-.00108	.00064	.00954	.00576	K271-01
103	K271-02	.00001	36.761	.08912	.00035	-.00137	.00058	.01736	.00438	K271-02
104	K271-03	-.00009	94.551	.20779	.00005	-.00096	.00080	.00248	.00234	K271-03
105	K271-04	-.00004	41.442	.06605	.00015	-.00134	.00040	.00457	.00403	K271-04
106	K271-05	.00002	34.159	.06928	.00005	-.00101	.00052	.00663	.00060	K271-05
107	CCV9	.49304	63.207	.49216	2.3288	.49269	.50104	1.4624	2.6577	CCV9
108	CCB9	.00011	.06007	-.00009	.00011	-.00005	-.00011	-.00004	-.00177	CCB9
109	IPK056WB	.00001	.04548	.00012	-.00026	-.00087	-.00028	.00016	.00236	IPK056WB

110	IPK056WL	.45894	50.019	.45410	.45744	.48441	.48856	.48084	.53047	IPK056WL
111	IPK056WC	.46773	50.639	.45819	.45748	.48414	.48819	.48399	.53010	IPK056WC
112	K211-02A	.61468	1874.4*	.97467	.44677	.47687	.50809	.51568	.70536	K211-02A
113	K211-02	.00340	1841.6*	.50468	-.00008	.00004	.00703	.00761	.14053	K211-02
114	K211-02J	.00078	441.46	.10163	-.00017	-.00012	.00123	.00130	.02805	K211-02J
115	K211-02M	.64893	1922.7*	1.0213	.45080	.48839	.52576	.52528	.71790	K211-02M
116	K211-02S	.64484	1894.9*	1.0187	.44985	.49358	.53172	.52592	.72091	K211-02S
117	K211-03	.00353	1827.8*	.49425	.00008	-.00019	.00194	.00492	.12934	K211-03
118	K211-04	.00048	1812.0*	.80013	-.00116	-.00015	.00343	.00262	.04070	K211-04
119	CCV10	.48691	63.354	.48639	2.3180	.49502	.49684	1.4566	2.6542	CCV10
120	CCB10	.00024	.34335	-.00007	.00005	-.00013	.00055	-.00004	-.00222	CCB10
121	K211-05	.00052	1982.7*	.88538	-.00158	-.00004	.00133	.00240	.04185	K211-05
122	K240-02	.00002	132.37	.77716	-.00052	-.00066	.00020	.00233	.00100	K240-02
123	K240-03	-.00011	132.84	.78401	-.00058	-.00045	.00009	.00245	.00681	K240-03
124	K240-04	-.00012	135.33	.64298	-.00061	-.00019	.00040	.00567	.00181	K240-04
125	K240-05	.00003	129.03	.74500	-.00036	-.00069	.00006	.01182	.00060	K240-05
126	K236-02	-.00015	66.755	.19606	-.00078	-.00065	.00102	.00708	.00141	K236-02
127	CCV11	.48575	63.178	.48507	2.3244	.49520	.49719	1.4577	2.6568	CCV11
128	CCB11	.00009	.22591	-.00009	.00026	.00000	-.00016	-.00001	-.00231	CCB11
129	IPK064WB	.00017	.18380	.00000	.00085	-.00099	.00007	.00004	-.00194	IPK064WB
130	IPK064WL	.39018*	55.925	.47847	.50111	.48349	.51326	.51466	.55790	IPK064WL
131	IPK064WC	.38359*	55.421	.49401	.51108	.50414	.53224	.52281	.56899	IPK064WC
132	K709-01A	.96776	275.07	1.3652	.94401	.97348	1.0070	1.0128	1.1600	K709-01A
133	K709-01	.00050	227.17	.43854	.00020	.00351	.00134	.00221	.04647	K709-01
134	K709-01D	.00005	231.46	.44768	.00036	.00048	.00106	.00217	.05475	K709-01D
135	K709-01J	.00021	46.187	.08797	-.00036	.00067	.00005	.00050	.00766	K709-01J
136	K709-01M	.42694	288.56	.94948	.47492	.50046	.52343	.51904	.62404	K709-01M
137	K709-01S	.53646	285.08	.93747	.46949	.50045	.51501	.51655	.60989	K709-01S
138	CCV12	.48864	63.541	.48778	2.3246	.49439	.49694	1.4585	2.6565	CCV12
139	CCB12	.00012	.20606	.00013	.00047	.00018	.00020	.00011	.01253*	CCB12
140	IPL004WB	.00016	.17528	.00004	.00039	-.00108	.00015	-.00010	.00402	IPL004WB
141	IPL004WL	.50699	55.030	.47946	.49173	.49469	.51631	.50903	.55659	IPL004WL
142	IPL004WC	.49997	53.454	.49897	.48643	.51206	.53568	.50387	.55444	IPL004WC
143	K307-07A	.50413	105.12	.64398	.48205	.48410	.50631	.50482	.56240	K307-07A
144	K307-07	.00011	53.497	.17501	.00065	-.00024	.00201	.00031	.01511	K307-07
145	K307-07J	.00014	10.727	.03530	.00014	-.00021	.00034	.00025	.00137	K307-07J
146	K307-09	.00008	50.284	.17575	.00029	-.00052	.00062	.00014	.01143	K307-09
147	K307-11	.00002	50.381	.52511	.00025	-.00108	.00892	.00104	.09672	K307-11
148	K309-03	.00029	84.325	.38739	.00038	-.00068	.00513	.02293	.01743	K309-03
149	K309-04	.00018	124.11	.57026	.00001	.00003	.00154	.01118	.00312	K309-04
150	CCV13	.48580	63.467	.48750	2.3246	.49565	.49732	1.4530	2.6600	CCV13
151	CCB13	.00010	.12858	-.00012	-.00020	-.00020	-.00030	.00010	-.00252	CCB13
152	K309-05	.00011	126.30	.58107	-.00013	-.00007	.00150	.01121	.00390	K309-05
153	K280-01	-.00001	121.61	.79885	.00097	-.00093	.00212	.01098	.00268	K280-01
154	K280-01M	.52186	170.38	1.2533	.47433	.49131	.51328	.51439	.55252	K280-01M
155	K280-01S	.53736	175.13	1.2923	.48996	.51068	.53143	.53306	.58104	K280-01S
156	K280-02	.00017	.16171	.00012	.00027	-.00088	-.00008	-.00012	.00374	K280-02
157	K280-03	.00011	126.87	.66105	.00015	-.00073	.00063	.01210	.01024	K280-03
158	K280-01	.00005	119.12	.78222	-.00024	-.00065	.00059	.01059	.01725	K280-01
159	K280-01M	.52781	172.40	1.2752	.48664	.50968	.52499	.52545	.58269	K280-01M
160	K280-01S	.53174	173.09	1.2782	.49217	.51630	.52715	.52976	.59092	K280-01S
161	K280-02	.00018	.17371	.00016	.00064	-.00070	-.00004	.00013	.00400	K280-02
162	CCV14	.48456	63.509	.48682	2.3318	.49979	.49591	1.4569	2.6580	CCV14
163	CCB14	.00003	.12555	-.00006	.00050	.00001	.00013	.00008	-.00259	CCB14
164	K280-03	.00007	121.88	.63713	-.00015	-.00046	.00080	.01183	.00616	K280-03
165	K278-12	.00007	.12019	-.00004	.00010	-.00091	-.00019	.00003	.00529	K278-12

166	ICSA3	.00040	.24782	.02042	-.00075	.00060	.00029	-.00024	-.00126	ICSA3
167	ICSAB3	1.0430	83.147	.50296	.88796	.97561	.98168	.47663	1.0504	ICSAB3
168	CCV15	.48232	63.537	.48657	2.3334	.49969	.49486	1.4538	2.6578	CCV15
169	CCB15	.00015	.09380	-.00013	.00041	-.00011	.00004	-.00006	-.00239	CCB15
170	WTK009SB	.00019	*****	.00128	-.02037	.00998	.00025	.00040	.02202*	WTK009SB
171	K173-05A	.41335	1986.4*	.55046	.43855	.47527	.60930	.54225	5.4766	K173-05A
172	K173-05	.00039	1951.1*	.08404	-.01922*	.01480	.11592	.02164	5.0748	K173-05
173	K173-05J	.00024	564.64	.01662	-.00320	.00284	.02349	.00435	1.0001	K173-05J
174	CCV16	.48472	64.465	.48699	2.3223	.49592	.49575	1.4570	2.6592	CCV16
175	CCB16	-.00004	.47834	-.00010	.00027	-.00007	.00022	-.00002	-.00250	CCB16
176	IPL009SB	-.00002	.36928	.00000	-.00104	.02287	-.00019	.00020	.00897	IPL009SB
177	IPL009SL	.47564	53.783	.47275	.48191	.51280	.50891	.50714	.55998	IPL009SL
178	IPL009SC	.48160	54.014	.47783	.48503	.51256	.51354	.51013	.56246	IPL009SC
179	L034-01A	.47798	57.154	1.2684	.25249	.50541	2.5636	.62357	.72357	L034-01A
180	L034-01	-.00155	2.4328	.80760	-.21525*	.02795	2.1140	.15581	.17591	L034-01
181	L034-01J	-.00015	.62524	.16290	-.04329*	.00562	.43031	.03295	.03374	L034-01J
182	L034-01M	.46024	55.778	1.3864	.21571	.49910	2.3709	.59742	.70675	L034-01M
183	L034-01S	.47014	55.322	1.1787	.27275	.50611	1.8974	.63305	.69507	L034-01S
184	L034-02	-.00823*	2.6236	.96055	-.24837*	.02788	2.2035	.13959	.13278	L034-02
185	L034-03	-.00573*	1.1394	.44861	-.11181*	.02029	1.3423	.22254	.19581	L034-03
186	CCV17	.47956	63.657	.48303	2.3314	.50359	.49670	1.4601	2.6734	CCV17
187	CCB17	.00014	.10762	-.00007	-.00018	-.00012	.00025	.00002	-.00255	CCB17
188	K288-05	.00007	.61272	.04404	-.00094	.01238	1.4381	.08770	2.4545	K288-05
189	K288-10	-.00006	.59775	.04112	-.00089	.00989	1.6113	.09319	.51778	K288-10
190	K360-02	.00003	.57143	.06693	-.00067	.01227	.83308	.42388	28.237	K360-02
191	L046-07	-.00045	4.0175	.20424	.00031	.01955	8.3277	.46634	.34930	L046-07
192	K574-08	.00024	.06604	.00206	-.00094	.01312	.00853	.00024	1.1447	K574-08
193	K574-10	.00006	.07704	.00043	-.00102	.00945	.00163	.00015	.17702	K574-10
194	K574-13	-.00001	.19650	.00087	-.00119	.00761	.00067	-.00007	.48460	K574-13
195	K574-14	.00660	.19043	.01876	-.00144	.05743	.02907	.00090	.72731	K574-14
196	CCV18	.49641	64.538	.49444	2.3095	.49228	.49425	1.4689	2.6565	CCV18
197	CCB18	.00030	.06543	-.00007	.00250	-.00497	.00019	-.00144	.00162	CCB18
198	K360-01	.00016	.23231	.05621	-.00089	.01569	.74771	.25284	48.178*	K360-01
199	K360-02	-.00058	.21255	.06700	-.00134	.01293	.59551	.29065	24.826	K360-02
200	K360-03	-.00016	.15308	.04723	-.00140	.00930	.73498	.21137	1.3580	K360-03
201	K360-04	-.00001	.18960	.06250	-.00096	.00963	.87078	.24829	.44469	K360-04
202	K360-05	-.00016	.27411	.08257	-.00130	.01386	.78855	.31731	2.6984	K360-05
203	K360-06	-.00024	.30469	.08087	-.00085	.01511	.49711	.34363	1.6179	K360-06
204	CCV19	.50593	64.841	.49976	2.2980	.48564	.49678	1.4781	2.6615	CCV19
205	CCB19	-.00001	.04392	-.00003	-.00022	-.00031	.00035	-.00006	-.00245	CCB19
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8L005 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-096
Batch: IPL009-S
Matrix: SOL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

12-3-10 Start	Temp	12-3-10 End	Temp
12:00	90 °C	14:00	90 °C

Hotplate C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-02-07	0.5
LCS-2	↓ - ↓ - ↓ -08	0.5
LCS-3	↓ - ↓ - ↓ -09	1.0
MS		

Reagent	Lot# / ID	Amount Added (ml)
HNO_3	SW1A-04-291	10.0
HCl	↓ ↓ -282	10.0
H_2O_2	↓ ↓ -209	10.0
HNO3(1:1)	SM5B-02-133	10.0

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☐ Thermometer ID: 10/61/5632

Prepared By: MC
Standard Added By: MC Witnessed By: TH
Extract Rcvd By: TH Checked By: TH 12/3/10

7091

FileID: IPL009S

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
10IPL009S01	IPL009SB	1	g	12/3/10 10:51	100	1	100	1	
10IPL009S02	IPL009SL	1	g	12/3/10 10:51	100	1	100	1	
10IPL009S03	IPL009SC	1	g	12/3/10 10:51	100	1	100	1	
10IPL009S04	K288-05	1.003	g	12/3/10 10:55	100	1	100	0.997	NEW COMPOSITE
10IPL009S05	K288-10	1.004	g	12/3/10 10:58	100	1	100	0.996	NEW COMPOSITE
10IPL009S06	K360-02	1.006	g	12/3/10 10:59	100	1	100	0.994	DRY&SIEVE
10IPL009S07	L046-07	1.013	g	12/3/10 11:11	100	1	100	0.987	
10IPL009S08	L034-01	1.021	g	12/3/10 11:14	100	1	100	0.979	
10IPL009S09	L034-01M	1.024	g	12/3/10 11:15	100	1	100	0.977	
10IPL009S10	L034-01S	1.026	g	12/3/10 11:16	100	1	100	0.975	
10IPL009S11	L034-02	1.018	g	12/3/10 11:17	100	1	100	0.982	
10IPL009S12	L034-03	1.023	g	12/3/10 11:19	100	1	100	0.978	
10IPL009S13	K574-08	1.022	g	12/3/10 11:21	100	1	100	0.978	
10IPL009S14	K574-10	1.023	g	12/3/10 11:23	100	1	100	0.978	
10IPL009S15	K574-13	1.029	g	12/3/10 11:23	100	1	100	0.972	
10IPL009S16	K574-14	1.015	g	12/3/10 11:25	100	1	100	0.985	
10IPL009S17	K360-01	1.001	g	12/3/10 11:27	100	1	100	0.999	XRF
10IPL009S18	K360-02	1.024	g	12/3/10 11:28	100	1	100	0.977	XRF
10IPL009S19	K360-03	1.003	g	12/3/10 11:31	100	1	100	0.997	XRF
10IPL009S20	K360-04	1.029	g	12/3/10 11:33	100	1	100	0.972	XRF
10IPL009S21	K360-05	1.024	g	12/3/10 11:33	100	1	100	0.977	XRF
10IPL009S22	K360-06	1.021	g	12/3/10 11:34	100	1	100	0.979	XRF

12-3-10 MC

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 12/3/10 12:00 Prepared By: MC

☑ Digestion Ended @ 12/3/10 14:00 Checked By: TH

Comments: Date 12/3/2010

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **10L075**

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GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7067 7068 – 7100
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-13-2010
EMAX Batch No.: 10L075

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 12/04/10.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CP091-04-01	L075-01	11/21/10	SOIL	CADMIUM
CP091-04-02	L075-02	11/21/10	SOIL	CADMIUM
CP091-05-01	L075-03	11/22/10	SOIL	CADMIUM
CP091-05-02	L075-04	11/22/10	SOIL	CADMIUM
CP093-S1-01-01	L075-05	11/23/10	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S1-01-02	L075-06	11/23/10	SOIL	CADMIUM
CP093-S2-01-01	L075-07	11/21/10	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S2-01-02	L075-08	11/21/10	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

101075

Chain of Custody Record

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			03-Dec-10	2 of 2
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401			
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**		
Project Name Tar Creek OU4	**Carrier/Waybill Number** Fed Ex 796516273801	**CH2M HILL Project Number:** 395950.CV.01			
Samplers: Various CH2M HILL personnel					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cadmium Only	Comments
1	CP091-04-01	November 21, 2010	16:30	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
2	CP091-04-02	November 21, 2010	16:40	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
3	CP091-05-01	November 22, 2010	9:00	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
4	CP091-05-02	November 22, 2010	9:10	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
5	CP093-S1-01-01	November 23, 2010	10:15	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X	Sieve lead sample
6	CP093-S1-01-02	November 23, 2010	10:25	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
7	CP093-S2-01-01	November 21, 2010	10:30	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X	Sieve lead sample
8	CP093-S2-01-02	November 21, 2010	10:40	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	

Turnaround Time 7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Richard J Trevino	**Date:** December 3, 2010	**Time:** 18:00	**1. Received By:** Fed Ex	**Date:** 12-4-10	**Time:** 11:15A
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:**	

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

T: 2.4°C

1001

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 10 L075
☐ EMAX Courier		Recepient I PATEL
☐ Client Delivery		Date 12-4-10
☑ Third Party Fedex	7965 1627 3801	Time 11:15AM

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ *High concentrations expected*	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	Plastic Bag
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 1 2.4 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 12-4-10 / LK

SRF [signature] Date 12/4/10

PM LP for YG Date 12/6/10

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: Origin ID: NQIA (281) 721-8538
Richard Trevino
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

FedEx Express

Ship Date: 03DEC10
ActWgt: 50.0 LB
CAD: 1303944/WBUS0200
Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

Ref # 395950.CV.01/AAB00101711
Invoice #
PO #
Dept #

SHIP TO: (310) 618-8889 BILL SENDER

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

TRK# 0201 7965 1627 3801

SATURDAY ### A1
PRIORITY OVERNIGHT

90501
CA-US
LAX

X0 AVXA

10 L075
12-4-10
11:15m

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 10L075

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 10L075

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of eight (8) soil samples were received on 12/04/10 for Metals by ICP analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPL015SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10L075
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL015SB	1	NA	12/07/1023:52	12/07/1010:00	ID8L008120	ID8L008118	IPL015S	Method Blank
LCS1S	IPL015SL	1	NA	12/07/1023:55	12/07/1010:00	ID8L008121	ID8L008118	IPL015S	Lab Control Sample (LCS)
LCD1S	IPL015SC	1	NA	12/07/1023:57	12/07/1010:00	ID8L008122	ID8L008118	IPL015S	LCS Duplicate
CP091-01-01	L076-01W	0.988	22.9	12/08/1020:10	12/07/1010:00	ID8L009066	ID8L009063	IPL015S	Field Sample
CP091-01-01DL	L076-01J	4.94	22.9	12/08/1020:12	12/07/1010:00	ID8L009067	ID8L009063	IPL015S	Diluted Sample
CP091-04-01	L075-01	0.994	24.3	12/08/1000:42	12/07/1010:00	ID8L008138	ID8L008136	IPL015S	Field Sample
CP091-04-02	L075-02	0.999	22.5	12/08/1000:45	12/07/1010:00	ID8L008139	ID8L008136	IPL015S	Field Sample
CP091-05-01	L075-03	0.988	17.5	12/08/1000:48	12/07/1010:00	ID8L008140	ID8L008136	IPL015S	Field Sample
CP091-05-02	L075-04	0.982	17.9	12/08/1000:51	12/07/1010:00	ID8L008141	ID8L008136	IPL015S	Field Sample
CP093-S1-01-02	L075-06	0.982	13.9	12/08/1000:56	12/07/1010:00	ID8L008143	ID8L008136	IPL015S	Field Sample
CP093-S2-01-02	L075-08	0.983	16.8	12/08/1001:02	12/07/1010:00	ID8L008145	ID8L008136	IPL015S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/601DB
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 16:30
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-04-01	Date Analyzed:	12/08/10 00:42
Lab Samp ID:	L075-01	Dilution Factor:	0.994
Lab File ID:	ID8L008138	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	24.3
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	40.2	1.31	0.131

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 16:40
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-04-02	Date Analyzed:	12/08/10 00:45
Lab Samp ID:	L075-02	Dilution Factor:	0.999
Lab File ID:	ID8L008139	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	22.5
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	84.2	1.29	0.129

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/22/10 09:00
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-05-01	Date Analyzed:	12/08/10 00:48
Lab Samp ID:	L075-03	Dilution Factor:	0.988
Lab File ID:	ID8L008140	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	17.5
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.20	0.120

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/22/10 09:10
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-05-02	Date Analyzed:	12/08/10 00:51
Lab Samp ID:	L075-04	Dilution Factor:	0.982
Lab File ID:	ID8L008141	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	17.9
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.184J	1.20	0.120

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/23/10 10:25
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP093-S1-01-02	Date Analyzed:	12/08/10 00:56
Lab Samp ID:	L075-06	Dilution Factor:	0.982
Lab File ID:	ID8L008143	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	13.9
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.14	0.114

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 10:40
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP093-S2-01-02	Date Analyzed:	12/08/10 01:02
Lab Samp ID:	L075-08	Dilution Factor:	0.983
Lab File ID:	ID8L008145	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	16.8
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.18	0.118

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/07/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	MBLK1S	Date Analyzed:	12/07/10 23:52
Lab Samp ID:	IPL015SB	Dilution Factor:	1
Lab File ID:	ID8L008120	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	NA
Calib. Ref.:	ID8L008118	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L075
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL015SB	IPL015SL	IPL015SC		
LAB FILE ID:	ID8L008120	ID8L008121	ID8L008122		
DATIME EXTRCTD:	12/07/1010:00	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/07/1023:52	12/07/1023:55	12/07/1023:57	DATE RECEIVED:	12/07/10
PREP. BATCH:	IPL015S	IPL015S	IPL015S		
CALIB. REF:	ID8L008118	ID8L008118	ID8L008118		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	53.3	107	50	52.9	106	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10L075
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	22.9
DILUTION FACTOR:	0.988	4.94		
SAMPLE ID:	CP091-01-01	CP091-01-01DL		
EMAX SAMP ID:	L076-01W	L076-01J		
LAB FILE ID:	ID8L009066	ID8L009067		
DATE EXTRACTED:	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	11/21/10 13:10
DATE ANALYZED:	12/08/1020:10	12/08/1020:12	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL015S	IPL015S		
CALIB. REF:	ID8L009063	ID8L009063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	11.9	11.1	6	10

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10L075
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL015SB	1	NA	12/07/1023:52	12/07/1010:00	ID8L008120	ID8L008118	IPL015S	Method Blank
LCS1S	IPL015SL	1	NA	12/07/1023:55	12/07/1010:00	ID8L008121	ID8L008118	IPL015S	Lab Control Sample (LCS)
LCD1S	IPL015SC	1	NA	12/07/1023:57	12/07/1010:00	ID8L008122	ID8L008118	IPL015S	LCS Duplicate
CP091-01-01	L076-01W	0.988	22.9	12/08/1020:10	12/07/1010:00	ID8L009066	ID8L009063	IPL015S	Field Sample
CP091-01-01DL	L076-01J	4.94	22.9	12/08/1020:12	12/07/1010:00	ID8L009067	ID8L009063	IPL015S	Diluted Sample
CP093-S1-01-01	L075-05	0.993	20.4	12/08/1000:54	12/07/1010:00	ID8L008142	ID8L008136	IPL015S	Field Sample
CP093-S2-01-01	L075-07	0.996	19.0	12/08/1000:59	12/07/1010:00	ID8L008144	ID8L008136	IPL015S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/23/10 10:15
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP093-S1-01-01	Date Analyzed:	12/08/10 00:54
Lab Samp ID:	L075-05	Dilution Factor:	0.993
Lab File ID:	ID8L008142	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	20.4
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.50	1.25	0.125
Zinc	308	1.25	0.624

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 10:30
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	CP093-S2-01-01	Date Analyzed:	12/08/10 00:59
Lab Samp ID:	L075-07	Dilution Factor:	0.996
Lab File ID:	ID8L008144	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	19.0
Calib. Ref.:	ID8L008136	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.332J	1.23	0.123
Zinc	218	1.23	0.615

METHOD 30508/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/07/10
SDG NO.	: 10L075	Date Extracted:	12/07/10 10:00
Sample ID:	MBLK1S	Date Analyzed:	12/07/10 23:52
Lab Samp ID:	IPL015SB	Dilution Factor:	1
Lab File ID:	ID8L008120	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	NA
Calib. Ref.:	ID8L008118	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 1DL075
METHOD: METHOD 3050B/60108

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL015SB	IPL015SL	IPL015SC		
LAB FILE ID:	ID8L008120	ID8L008121	ID8L008122		
DATIME EXTRCTD:	12/07/1010:00	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/07/1023:52	12/07/1023:55	12/07/1023:57	DATE RECEIVED:	12/07/10
PREP. BATCH:	IPL015S	IPL015S	IPL015S		
CALIB. REF:	ID8L008118	ID8L008118	ID8L008118		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	53.3	107	50	52.9	106	1	80-120	20
Zinc	ND	50	55.3	111	50	55	110	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10L075
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	22.9
DILUTION FACTOR:	0.988	4.94		
SAMPLE ID:	CP091-01-01	CP091-01-01DL		
EMAX SAMP ID:	L076-01W	L076-01J		
LAB FILE ID:	ID8L009066	ID8L009067		
DATE EXTRACTED:	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	11/21/10 13:10
DATE ANALYZED:	12/08/1020:10	12/08/1020:12	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL015S	IPL015S		
CALIB. REF:	ID8L009063	ID8L009063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	11.9	11.1	6	1D
Zinc	2340	2320	1	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/7/10 18:13

End Date: 12/8/10 01:08

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☐ EMAX-200.7	1
☐ EMAX-	

Book #: AD8-017

Instrument No.: D8

Analytical Batch: 1D8L008

Analytical Sequence: S-10L6010 (VR)

Method File: 10L6010 (V12)

Database: Emax13

Comments:

TOT L020-04 Cr >LDR
TOT L020-05
TOT L028-02
TOT L028-04
L027-01 Na >LDR
L027-06
CCB4 Na >LOD
L076-07 Zn >LDR
-02
-03
-05
-06
L075-01
02

	STANDARDS ID		STANDARDS ID
S0	SMIB14-16-01	S30	SMIB1402 03
S1	MA	S31	0204
S2		ICV	SMIB14-09 01
S3		CCV	1602
S4		ICSA	1103
S5		ICSAB	0303
S6		MLCV	MA
S7		LLCV	
S8		CRI/MRL 1	SMIB12 8801
S9		MRL2	SMIB14 1801
S10			
S11			
S12			
S16			
S17			
S18			
S20	SMIB12-100-05		
S21	SMIB14-01-01		
S22	01-02		
S23	01-03		
S24	01-04		
S25	01-05		
S26	SMIB12-100-02		
S27	100-03		
S28	SMIB14-0201		
S29	0202		

Analyzed By: TH

Date: 12/8/10

7019

SEQUENCE FILE : ID8L008

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8L008001	Blank	18:13	12/07/10	1.000
ID8L008002	S20	18:16	12/07/10	1.000
ID8L008003	S21	18:19	12/07/10	1.000
ID8L008004	S22	18:22	12/07/10	1.000
ID8L008005	S23	18:24	12/07/10	1.000
ID8L008006	S24	18:28	12/07/10	1.000
ID8L008007	S25	18:31	12/07/10	1.000
ID8L008008	S26	18:34	12/07/10	1.000
ID8L008009	S27	18:37	12/07/10	1.000
ID8L008010	S28	18:40	12/07/10	1.000
ID8L008011	S29	18:43	12/07/10	1.000
ID8L008012	S30	18:45	12/07/10	1.000
ID8L008013	S31	18:48	12/07/10	1.000
ID8L008014	ICV	18:51	12/07/10	1.000
ID8L008015	ICB	18:54	12/07/10	1.000
ID8L008016	MRLL071	18:57	12/07/10	1.000
ID8L008017	MRLL072	19:00	12/07/10	1.000
ID8L008018	ICSA1	19:02	12/07/10	1.000
ID8L008019	ICSAB1	19:05	12/07/10	1.000
ID8L008020	CCV1	19:08	12/07/10	1.000
ID8L008021	CCB1	19:11	12/07/10	1.000
ID8L008022	IPL011WB	19:14	12/07/10	1.000
ID8L008023	IPL011WL	19:17	12/07/10	1.000
ID8L008024	IPL011WC	19:19	12/07/10	1.000
ID8L008025	L020-03A	19:22	12/07/10	1.000
ID8L008026	L020-03	19:25	12/07/10	1.000
ID8L008027	L020-03J	19:28	12/07/10	5.000
ID8L008028	L020-03M	19:30	12/07/10	1.000
ID8L008029	L020-03S	19:33	12/07/10	1.000
ID8L008030	L020-04	19:36	12/07/10	1.000
ID8L008031	L020-05	19:39	12/07/10	1.000
ID8L008032	CCV2	19:42	12/07/10	1.000
ID8L008033	CCB2	19:44	12/07/10	1.000
ID8L008034	L020-03	19:47	12/07/10	1.000
ID8L008035	L020-03M	19:50	12/07/10	1.000
ID8L008036	L020-03S	19:53	12/07/10	1.000
ID8L008037	L020-04	19:56	12/07/10	1.000
ID8L008038	L020-05	19:59	12/07/10	1.000
ID8L008039	L028-02	20:02	12/07/10	1.000
ID8L008040	L028-03	20:05	12/07/10	1.000
ID8L008041	L028-04	20:08	12/07/10	1.000
ID8L008042	L028-05	20:11	12/07/10	1.000
ID8L008043	CCV3	20:14	12/07/10	1.000
ID8L008044	CCB3	20:16	12/07/10	1.000
ID8L008045	L028-02	20:19	12/07/10	1.000
ID8L008046	L028-03	20:22	12/07/10	1.000
ID8L008047	L028-04	20:25	12/07/10	1.000
ID8L008048	L028-05	20:28	12/07/10	1.000
ID8L008049	L027-01	20:31	12/07/10	1.000
ID8L008050	L027-02	20:34	12/07/10	1.000
ID8L008051	L027-04	20:37	12/07/10	1.000
ID8L008052	L027-06	20:40	12/07/10	1.000
ID8L008053	L027-07	20:43	12/07/10	1.000
ID8L008054	K270-10W	20:46	12/07/10	1.000

ID8L008055	CCV4	20:49	12/07/10	1.000
ID8L008056	CCB4	20:52	12/07/10	1.000
ID8L008057	IPL010WB	20:55	12/07/10	1.000
ID8L008058	IPL010WL	20:58	12/07/10	1.000
ID8L008059	IPL010WC	21:00	12/07/10	1.000
ID8L008060	TXL002SB	21:03	12/07/10	1.000
ID8L008061	K288-10A	21:06	12/07/10	1.000
ID8L008062	K288-10	21:09	12/07/10	1.000
ID8L008063	K288-10J	21:12	12/07/10	5.000
ID8L008064	K288-10M	21:14	12/07/10	1.000
ID8L008065	K288-10S	21:17	12/07/10	1.000
ID8L008066	CCV5	21:20	12/07/10	1.000
ID8L008067	CCB5	21:23	12/07/10	1.000
ID8L008068	TXL003WB	21:25	12/07/10	1.000
ID8L008069	K574-07A	21:28	12/07/10	1.000
ID8L008070	K574-07	21:31	12/07/10	1.000
ID8L008071	K574-07J	21:34	12/07/10	5.000
ID8L008072	K574-07M	21:37	12/07/10	1.000
ID8L008073	K574-07S	21:39	12/07/10	1.000
ID8L008074	K574-12	21:42	12/07/10	1.000
ID8L008075	K288-05	21:45	12/07/10	1.000
ID8L008076	K288-05M	21:48	12/07/10	1.000
ID8L008077	K288-05S	21:50	12/07/10	1.000
ID8L008078	CCV6	21:53	12/07/10	1.000
ID8L008079	CCB6	21:56	12/07/10	1.000
ID8L008080	TXL001SB	21:59	12/07/10	1.000
ID8L008081	K574-03A	22:02	12/07/10	1.000
ID8L008082	K574-03	22:04	12/07/10	1.000
ID8L008083	K574-03J	22:07	12/07/10	5.000
ID8L008084	K574-03M	22:10	12/07/10	1.000
ID8L008085	K574-03S	22:13	12/07/10	1.000
ID8L008086	K574-01	22:16	12/07/10	1.000
ID8L008087	K574-02	22:19	12/07/10	1.000
ID8L008088	CCV7	22:21	12/07/10	1.000
ID8L008089	CCB7	22:24	12/07/10	1.000
ID8L008090	K574-04	22:27	12/07/10	1.000
ID8L008091	K574-05	22:30	12/07/10	1.000
ID8L008092	K574-06	22:33	12/07/10	1.000
ID8L008093	K574-09	22:36	12/07/10	1.000
ID8L008094	K574-11	22:39	12/07/10	1.000
ID8L008095	K577-01	22:42	12/07/10	1.000
ID8L008096	CCV8	22:45	12/07/10	1.000
ID8L008097	CCB8	22:48	12/07/10	1.000
ID8L008098	IPL013WB	22:50	12/07/10	1.000
ID8L008099	IPL013WL	22:53	12/07/10	1.000
ID8L008100	IPL013WC	22:56	12/07/10	1.000
ID8L008101	WTL002SB	22:59	12/07/10	1.000
ID8L008102	K288-10A	23:02	12/07/10	1.000
ID8L008103	K288-10	23:04	12/07/10	1.000
ID8L008104	K288-10J	23:07	12/07/10	5.000
ID8L008105	K288-10M	23:10	12/07/10	1.000
ID8L008106	K288-10S	23:13	12/07/10	1.000
ID8L008107	K288-05	23:16	12/07/10	1.000
ID8L008108	CCV9	23:19	12/07/10	1.000
ID8L008109	CCB9	23:21	12/07/10	1.000
ID8L008110	IPL004WQ	23:24	12/07/10	1.000
ID8L008111	IPL004WX	23:27	12/07/10	1.000

ID8L008112	IPL004WY	23:30	12/07/10	1.000
ID8L008113	K307-07A	23:32	12/07/10	1.000
ID8L008114	K307-07W	23:35	12/07/10	1.000
ID8L008115	K307-07J	23:38	12/07/10	5.000
ID8L008116	L039-02	23:40	12/07/10	1.000
ID8L008117	L039-03	23:43	12/07/10	1.000
ID8L008118	CCV10	23:46	12/07/10	1.000
ID8L008119	CCB10	23:49	12/07/10	1.000
ID8L008120	IPL015SB	23:52	12/07/10	1.000
ID8L008121	IPL015SL	23:55	12/07/10	1.000
ID8L008122	IPL015SC	23:57	12/07/10	1.000
ID8L008123	L076-07A	00:00	12/08/10	1.000
ID8L008124	L076-07	00:03	12/08/10	1.000
ID8L008125	L076-07J	00:06	12/08/10	5.000
ID8L008126	L076-07M	00:08	12/08/10	1.000
ID8L008127	L076-07S	00:11	12/08/10	1.000
ID8L008128	L076-01	00:14	12/08/10	1.000
ID8L008129	L076-02	00:17	12/08/10	1.000
ID8L008130	CCV11	00:20	12/08/10	1.000
ID8L008131	CCB11	00:23	12/08/10	1.000
ID8L008132	L076-03	00:26	12/08/10	1.000
ID8L008133	L076-04	00:28	12/08/10	1.000
ID8L008134	L076-05	00:31	12/08/10	1.000
ID8L008135	L076-06	00:34	12/08/10	1.000
ID8L008136	CCV12	00:37	12/08/10	1.000
ID8L008137	CCB12	00:39	12/08/10	1.000
ID8L008138	LD75-01	00:42	12/08/10	1.000
ID8L008139	L075-02	00:45	12/08/10	1.000
ID8L008140	L075-03	00:48	12/08/10	1.000
ID8L008141	L075-04	00:51	12/08/10	1.000
ID8L008142	L075-05	00:54	12/08/10	1.000
ID8L008143	L075-06	00:56	12/08/10	1.000
ID8L008144	L075-07	00:59	12/08/10	1.000
ID8L008145	L075-08	01:02	12/08/10	1.000
ID8L008146	CCV13	01:05	12/08/10	1.000
ID8L008147	CCB13	01:08	12/08/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : ID8L008 DATE : 12/07/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	97	102	98	99	98	104	100	94	93	98	97	96	101	94	94	99	98	99	102	95	103	97	96	98	98	100	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL071	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL072	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	100	----	----	----	----	----	----	96	----	----	----	95	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	108	114	117	115	105	115	114	103	103	102	116	103	101	119	101	101	112	106	115	117	119	119	112	99	106	106	107	113
CCV1	105	101	104	102	100	100	105	103	96	97	101	101	97	105	95	96	102	100	101	104	99	104	99	96	101	100	100	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	106	102	106	102	100	101	105	102	98	97	102	102	97	106	95	96	101	100	102	106	101	106	100	96	100	100	101	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	105	104	108	102	100	101	105	102	98	96	101	102	98	106	95	95	101	100	101	108	101	107	99	96	101	100	101	107
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

7023

CCV4	104	102	108	102	100	101	105	103	99	96	101	102	97	106	96	96	100	99	102	108	101	107	100	95	100	100	101	108
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	101	106	103	100	100	105	102	98	96	101	101	97	107	95	95	101	100	103	106	100	107	100	95	100	100	100	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	105	101	107	103	100	102	105	102	100	96	103	102	97	108	95	95	101	100	104	107	102	108	101	95	99	100	101	107
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	103	99	105	102	100	99	104	101	98	95	100	101	96	107	95	94	99	98	102	105	99	106	99	94	98	99	99	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K577-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	100	106	103	99	101	104	101	99	95	102	101	96	108	94	94	99	98	103	106	101	107	100	94	98	99	100	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	100	107	103	99	101	104	101	100	95	103	101	96	109	94	93	99	98	105	106	102	114*	101	94	97	98	100	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPL004WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	105	100	107	104	99	102	104	101	101	95	104	101	96	110	93	93	98	98	106	107	103	109	102	93	96	98	100	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	105	103	111*	104	100	103	105	101	102	96	105	102	96	110	94	94	98	99	107	110	105	110	102	94	96	99	100	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	105	104	113*	104	99	103	105	101	103	96	105	102	96	110	94	94	98	99	106	113*	106	109	102	94	96	99	100	107
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	105	103	112*	104	100	103	106	102	102	96	104	102	97	110	95	94	99	99	106	112*	105	109	102	95	97	99	100	107
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L008 (SOIL) DATE : 12/07/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	41.9	.860	.650	.400	.490	3.51	.260	-13.3	.820	.060	.560	-7.72	.290	.070	20.0	.780	.280	.520	109	.390	.240	29.7	.210	.510	-.410	.320	.070	-1.89
MRLL071	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL072	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	9.41	2.14	.940	-.100	29.6	-1.20	----	1.34	-.690	1.71	----	-2.08	5.95	----	.880	-1.99	-.540	194	1.83	.220	85.1	20.8	.530	1.08	1.10	-1.41	-.320
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	45.2	.820	-.190	.330	.420	2.46	.250	9.28	.450	.080	.310	.630	.590	.040	31.0	.550	.250	.220	109	-1.12	.070	34.8	.140	.290	-.340	-.080	-.120	-2.54
IPL011W8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	38.9	.880	-.590	.610	.600	4.69	.410	-8.88	1.10	.070	.710	-6.24	.620	-.140	30.1	1.15	.390	.610	180	-.180	.090	231	.150	.350	.000	.570	.120	-2.35
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	38.2	1.24	-.390	.730	.680	5.57	.460	-6.12	1.54	.140	.770	-5.63	.360	.630	21.2	1.18	.370	.440	217	-.750	.170	390	.230	.160	-.470	.640	-.080	-2.31
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	34.0	1.45	.540	.540	.530	3.46	.350	-10.6	.800	-.030	.510	-5.92	.880	-.500	24.2	1.46	.260	.400	163	1.46	.180	354	.130	.230	-.170	.300	-.130	-2.43
IPL010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	28.1	1.80	-.450	.370	.500	3.84	.360	-15.0	.530	.080	.330	-9.57	.860	.210	18.8	.880	.280	.290	151	.040	.160	268	.180	.520	-.190	.330	-.160	-2.07
TXL003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	25.9	1.48	-.100	.410	.340	4.02	.280	-23.1	.440	.130	.240	-11.6	1.06	-.030	12.7	.840	.170	.340	144	-.100	.090	210	.070	.640	-.290	.260	.010	-2.26
TXL001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.3	2.01	.640	.620	.600	3.25	.390	9.60	.640	.100	.470	-8.19	.940	.250	25.5	.970	.340	.400	179	-.230	.130	277	.190	.750	-.080	.310	.040	-1.40
K574-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K577-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	33.3	1.000	.760	.730	.590	2.96	.380	10.7	.650	.150	.440	-7.48	1.22	-.080	24.0	1.21	.250	.520	189	-.670	.140	294	.120	.910	-.050	.380	.100	-1.25
IPL013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	35.9	1.13	.370	.690	.610	1.49	.400	13.0	.710	.150	.390	-9.80	.490	.840	24.9	1.05	.430	.390	299	.770	.200	958	.230	.280	.070	.220	.000	-1.32
IPL004WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPL004WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	34.9	1.83	.930	.760	.550	1.80	.400	10.2	.650	.140	.320	-8.12	.900	.220	15.7	1.02	.260	.440	169	-.660	.220	354	.250	.720	-.080	.240	.030	-1.37
IPL015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	26.2	.530	-.260	.250	.230	1.99	.170	-7.35	.250	.010	.150	-8.77	.480	-.140	7.78	.580	.120	.040	126	.120	.060	193	.070	.210	-.310	-.070	-.190	3.04
L076-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	29.8	1.94	.810	.400	.220	1.89	.140	-8.99	.230	.030	.160	-6.81	.520	-.500	10.1	.980	.060	.070	129	-.380	.120	177	-.010	.240	-.150	.440	-.320	1.09
L075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	22.3	.160	-.330	-.010	.030	1.06	-.010	54.5	.170	-.110	.060	-2.68	.770	.200	-2.90	.310	.010	.110	77.7	-.710	.060	111	-.140	.370	-.370	-.160	-.210	2.25

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L008001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L008002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L008003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L008004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L008005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L008006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L008007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L008008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L008009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L008010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L008011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L008012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L008013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8L008014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L008015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL071		ID8L008016			1	☒	MRL-EMAX	None
17	4	2	4	1	Unk	MRLL072		ID8L008017			1	☒	unk	---
18	5	2	5	1	QC	ICSA1		ID8L008018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L008019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L008020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L008021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPL011WB		ID8L008022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPL011WL		ID8L008023			1	☒	LCS	None
24	11	2	11	1	QC	IPL011WC		ID8L008024			1	☒	LCS	None
25	12	2	12	1	Unk	L020-03A	TOT	ID8L008025			1	☒	unk	---
26	13	2	1	2	Unk	L020-03	TOT	ID8L008026			1	☒	unk	---
27	14	2	2	2	Unk	L020-03J	TOT	ID8L008027			1	☒	unk	---
28	15	2	3	2	Unk	L020-03M	TOT	ID8L008028			1	☒	unk	—
29	16	2	4	2	Unk	L020-03S	TOT	ID8L008029			1	☒	unk	—
30	17	2	5	2	Unk	L020-04	TOT CrZnR	ID8L008030			1	☒	unk	—
31	18	2	6	2	Unk	L020-05	TOT CrZnR	ID8L008031			1	☒	unk	---
32	19	2	7	2	QC	CCV2		ID8L008032			1	☒	CCV	None
33	20	2	8	2	QC	CCB2		ID8L008033			1	☒	3XIDL	None
34	21	2	9	2	Unk	L020-03	DISS	ID8L008034			1	☒	unk	—
35	22	2	10	2	Unk	L020-03M	DISS	ID8L008035			1	☒	unk	—
36	23	2	11	2	Unk	L020-03S	DISS	ID8L008036			1	☒	unk	—
37	24	2	12	2	Unk	L020-04	DISS	ID8L008037			1	☒	unk	---
38	25	2	1	3	Unk	L020-05	DISS	ID8L008038			1	☒	unk	---
39	26	2	2	3	Unk	L028-02	TOT CrZnR	ID8L008039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	L028-03	TOT	ID8L008040			1	☒	unk	—
41	28	2	4	3	Unk	L028-04	TOT Cr7LNR	ID8L008041			1	☒	unk	—
42	29	2	5	3	Unk	L028-05	TOT	ID8L008042			1	☒	unk	—
43	30	2	6	3	QC	CCV3		ID8L008043			1	☒	CCV	None
44	31	2	7	3	QC	CCB3		ID8L008044			1	☒	3XIDL	None
45	32	2	8	3	Unk	L028-02	DISS	ID8L008045			1	☒	unk	—
46	33	2	9	3	Unk	L028-03	DISS	ID8L008046			1	☒	unk	—
47	34	2	10	3	Unk	L028-04	DISS	ID8L008047			1	☒	unk	—
48	35	2	11	3	Unk	L028-05	DISS	ID8L008048			1	☒	unk	—
49	142	4	10	2	Unk	L027-01	NA7LNR	ID8L008049			1	☒	unk	—
50	143	4	11	2	Unk	L027-02		ID8L008050			1	☒	unk	—
51	144	4	12	2	Unk	L027-04		ID8L008051			1	☒	unk	—
52	145	4	1	3	Unk	L027-06	NA7LDR	ID8L008052			1	☒	unk	—
53	146	4	2	3	Unk	L027-07		ID8L008053			1	☒	unk	—
54	147	4	3	3	Unk	K270-10W		ID8L008054			1	☒	unk	—
55	36	2	12	3	QC	CCV4		ID8L008055			1	☒	CCV	None
56	37	2	1	4	QC	CCB4	NA7LDD	ID8L008056			1	☒	3XIDL	None
57	38	2	2	4	QC	IPL010WB		ID8L008057			1	☒	1/2LOQ	None
58	39	2	3	4	QC	IPL010WL		ID8L008058			1	☒	LCS	None
59	40	2	4	4	QC	IPL010WC		ID8L008059			1	☒	LCS	None
60	41	2	5	4	QC	TXL002SB	TCLP	ID8L008060			1	☒	1/2LOQ	None
61	42	2	6	4	Unk	K288-10A	TCLP	ID8L008061			1	☒	unk	—
62	43	2	7	4	Unk	K288-10	TCLP	ID8L008062			1	☒	unk	—
63	44	2	8	4	Unk	K288-10J	TCLP	ID8L008063			1	☒	unk	—
64	45	2	9	4	Unk	K288-10M	TCLP	ID8L008064			1	☒	unk	—
65	46	2	10	4	Unk	K288-10S	TCLP	ID8L008065			1	☒	unk	—
66	47	2	11	4	QC	CCV5		ID8L008066			1	☒	CCV	None
67	48	2	12	4	QC	CCB5		ID8L008067			1	☒	3XIDL	None
68	49	2	1	5	QC	TXL003WB	TCLP	ID8L008068			1	☒	1/2LOQ	None
69	50	2	2	5	Unk	K574-07A	TCLP	ID8L008069			1	☒	unk	—
70	51	2	3	5	Unk	K574-07	TCLP	ID8L008070			1	☒	unk	—
71	52	2	4	5	Unk	K574-07J	TCLP	ID8L008071			1	☒	unk	—
72	53	2	5	5	Unk	K574-07M	TCLP	ID8L008072			1	☒	unk	—
73	54	2	6	5	Unk	K574-07S	TCLP	ID8L008073			1	☒	unk	—
74	55	2	7	5	Unk	K574-12	TCLP	ID8L008074			1	☒	unk	—
75	56	2	8	5	Unk	K288-05	TCLP	ID8L008075			1	☒	unk	—
76	57	2	9	5	Unk	K288-05M	TCLP	ID8L008076			1	☒	unk	—
77	58	2	10	5	Unk	K288-05S	TCLP	ID8L008077			1	☒	unk	—
78	59	2	11	5	QC	CCV6		ID8L008078			1	☒	CCV	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	60	2	12	5	QC	CCB6		ID8L008079			1	☒	3XIDL	None
80	61	3	1	1	QC	TXL001SB	TCLP	ID8L008080			1	☒	1/2LOQ	None
81	62	3	2	1	Unk	K574-03A	TCLP	ID8L008081			1	☒	unk	---
82	63	3	3	1	Unk	K574-03	TCLP	ID8L008082			1	☒	unk	---
83	64	3	4	1	Unk	K574-03J	TCLP	ID8L008083			1	☒	unk	---
84	65	3	5	1	Unk	K574-03M	TCLP	ID8L008084			1	☒	unk	---
85	66	3	6	1	Unk	K574-03S	TCLP	ID8L008085			1	☒	unk	---
86	67	3	7	1	Unk	K574-01	TCLP	ID8L008086			1	☒	unk	---
87	68	3	8	1	Unk	K574-02	TCLP	ID8L008087			1	☒	unk	---
88	69	3	9	1	QC	CCV7		ID8L008088			1	☒	CCV	None
89	70	3	10	1	QC	CCB7		ID8L008089			1	☒	3XIDL	None
90	71	3	11	1	Unk	K574-04	TCLP	ID8L008090			1	☒	unk	---
91	72	3	12	1	Unk	K574-05	TCLP	ID8L008091			1	☒	unk	---
92	73	3	1	2	Unk	K574-06	TCLP	ID8L008092			1	☒	unk	---
93	74	3	2	2	Unk	K574-09	TCLP	ID8L008093			1	☒	unk	---
94	75	3	3	2	Unk	K574-11	TCLP	ID8L008094			1	☒	unk	---
95	76	3	4	2	Unk	K577-01	TCLP	ID8L008095			1	☒	unk	---
96	80	3	8	2	QC	CCV8		ID8L008096			1	☒	CCV	None
97	81	3	9	2	QC	CCB8		ID8L008097			1	☒	3XIDL	None
98	82	3	10	2	QC	IPL013WB		ID8L008098			1	☒	1/2LOQ	None
99	83	3	11	2	QC	IPL013WL		ID8L008099			1	☒	LCS	None
100	84	3	12	2	QC	IPL013WC		ID8L008100			1	☒	LCS	None
101	85	3	1	3	QC	WTL002SB	STLC	ID8L008101			1	☒	1/2LOQ	None
102	86	3	2	3	Unk	K288-10A	STLC	ID8L008102			1	☒	unk	---
103	87	3	3	3	Unk	K288-10	STLC	ID8L008103			1	☒	unk	---
104	88	3	4	3	Unk	K288-10J	STLC	ID8L008104			1	☒	unk	---
105	89	3	5	3	Unk	K288-10M	STLC	ID8L008105			1	☒	unk	---
106	90	3	6	3	Unk	K288-10S	STLC	ID8L008106			1	☒	unk	---
107	77	3	5	2	Unk	K288-05	STLC	ID8L008107			1	☒	unk	---
108	91	3	7	3	QC	CCV9		ID8L008108			1	☒	CCV	None
109	92	3	8	3	QC	CCB9		ID8L008109			1	☒	3XIDL	None
110	93	3	9	3	QC	IPL004WQ		ID8L008110			1	☒	1/2LOQ	None
111	94	3	10	3	QC	IPL004WX		ID8L008111			1	☒	LCS	None
112	95	3	11	3	QC	IPL004WY		ID8L008112			1	☒	LCS	None
113	96	3	12	3	Unk	K307-07A		ID8L008113			1	☒	unk	---
114	97	3	1	4	Unk	K307-07W		ID8L008114			1	☒	unk	---
115	98	3	2	4	Unk	K307-07J		ID8L008115			1	☒	unk	---
116	99	3	3	4	Unk	L039-02		ID8L008116			1	☒	unk	---
117	100	3	4	4	Unk	L039-03		ID8L008117			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	101	3	5	4	QC	CCV10		ID8L008118			1	☒	CCV	None
119	102	3	6	4	QC	CCB10		ID8L008119			1	☒	3XIDL	None
120	103	3	7	4	QC	IPL015SB		ID8L008120			1	☒	1/2LOQ	None
121	104	3	8	4	QC	IPL015SL		ID8L008121			1	☒	LCS	None
122	105	3	9	4	QC	IPL015SC		ID8L008122			1	☒	LCS	None
123	106	3	10	4	Unk	L076-07A	XRF	ID8L008123			1	☒	unk	---
124	107	3	11	4	Unk	L076-07	XRF	ID8L008124			1	☒	unk	---
125	108	3	12	4	Unk	L076-07J	XRF	ID8L008125			1	☒	unk	---
126	109	3	1	5	Unk	L076-07M	XRF	ID8L008126			1	☒	unk	---
127	110	3	2	5	Unk	L076-07S	XRF	ID8L008127			1	☒	unk	---
128	111	3	3	5	Unk	L076-01	XRF	ID8L008128			1	☒	unk	---
129	112	3	4	5	Unk	L076-02	XRF	ID8L008129			1	☒	unk	---
130	113	3	5	5	QC	CCV11		ID8L008130			1	☒	CCV	None
131	114	3	6	5	QC	CCB11		ID8L008131			1	☒	3XIDL	None
132	115	3	7	5	Unk	L076-03	XRF	ID8L008132			1	☒	unk	---
133	116	3	8	5	Unk	L076-04	XRF	ID8L008133			1	☒	unk	---
134	117	3	9	5	Unk	L076-05	XRF	ID8L008134			1	☒	unk	---
135	118	3	10	5	Unk	L076-06	XRF	ID8L008135			1	☒	unk	---
136	119	3	11	5	QC	CCV12		ID8L008136			1	☒	CCV	None
137	120	3	12	5	QC	CCB12		ID8L008137			1	☒	3XIDL	None
138	121	4	1	1	Unk	L075-01	XRF 2n7ID12	ID8L008138			1	☒	unk	---
139	122	4	2	1	Unk	L075-02	XRF	ID8L008139			1	☒	unk	---
140	123	4	3	1	Unk	L075-03	XRF	ID8L008140			1	☒	unk	---
141	124	4	4	1	Unk	L075-04	XRF	ID8L008141			1	☒	unk	---
142	125	4	5	1	Unk	L075-05	XRF	ID8L008142			1	☒	unk	---
143	126	4	6	1	Unk	L075-06	XRF	ID8L008143			1	☒	unk	---
144	127	4	7	1	Unk	L075-07	XRF	ID8L008144			1	☒	unk	---
145	128	4	8	1	Unk	L075-08	XRF	ID8L008145			1	☒	unk	---
146	129	4	9	1	QC	CCV13		ID8L008146			1	☒	CCV	None
147	130	4	10	1	QC	CCB13		ID8L008147			1	☒	3XIDL	None
148	135	4	3	2	Unk	K562-01A		ID8L008148			1	☒	unk	---
149	136	4	4	2	Unk	K562-01W		ID8L008149			1	☒	unk	---
150	137	4	5	2	Unk	K562-01J		ID8L008150			1	☒	unk	---
151	138	4	6	2	Unk	K562-01G		ID8L008151			1	☒	unk	---
152	139	4	7	2	Unk	K562-01H		ID8L008152			1	☒	unk	---
153	140	4	8	2	Unk	K557-25W		ID8L008153			1	☒	unk	---
154	141	4	9	2	Unk	K557-26W		ID8L008154			1	☒	unk	---
155	131	4	11	1	Blank	Blank		ID8L008155			1	☐		---
156	132	4	12	1	Blank	Blank		ID8L008156			1	☐		---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
157	133	4	1	2	Blank	Blank		ID8L008157			1	☐		---
158	134	4	2	2	Unk	Blank		ID8L008158			1	☒	unk	---

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00111	.00002	-.00001	.00046	.00029	.00098	.00010	.00134	.00006	-.00069	Blank
2	S20					.89759		2.6642				S20
3	S21					8.6849		24.609				S21
4	S22				.47706						.15231	S22
5	S23				4.6845						1.5711	S23
6	S24						.10155					S24
7	S25						1.0502					S25
8	S26	.27067							.92461	.15452		S26
9	S27	9.9182							8.6269	1.5041		S27
10	S28		.00569									S28
11	S29		.05666									S29
12	S30			.00149								S30
13	S31			.00588								S31
14	ICV	104.83	1.4617	1.0232	1.9684	1.4892	2.4418	2.0764	75.040	2.3560	.92545	ICV
15	ICB	.04186	.00086	.00065	.00040	.00049	.00351	.00026	-.01331	.00082	.00006	ICB
16	MRLL071	.21879	.09884	.01015	.00992	.00982	.00486*	.01006	.99926	.01023	.00920	MRLL071
17	MRLL072	.00848	-.00043	.00086	-.00024	-.00005	-.00120	-.00007	-.03471	.00021	-.00014	MRLL072
18	ICSA1	399.35	.00941	.00214	.00094	-.00010	.02961	-.00120	480.43	.00134	-.00069	ICSA1
19	ICSAB1	432.49	1.1386	1.1746	.57513	.52517	.57565	1.1359	516.04	.51563	.50970	ICSAB1
20	CCV1	104.57	1.5105	1.0405	2.0354	1.5007	2.4893	2.1064	77.049	2.4058	.96603	CCV1
21	CCB1	.04521	.00082	-.00019	.00033	.00042	.00246	.00025	.00928	.00045	.00008	CCB1
22	IPL011WB	.03356	-.00046	.00126	-.00025	-.00005	-.00150	-.00005	-.02096	-.00012	-.00007	IPL011WB
23	IPL011WL	5.9973	2.7411	.56519	.53373	.53852	.55154	.56762	54.860	.53196	.51277	IPL011WL
24	IPL011WC	5.6368	2.5955	.54058	.50583	.50707	.51932	.53576	51.486	.50461	.48475	IPL011WC
25	L020-03A	5.9746	2.6454	.58103	.51521	.50093	1.1488	.54174	63.917	.68686	.49478	L020-03A
26	L020-03	.13413	-.00019	.01065	.00793	-.00004	.62177	-.00002	14.210	.18193	-.00016	L020-03
27	L020-03J	.04908	.00164	.00120	.00182	.00017	.13313	.00005	3.1920	.03983	-.00007	L020-03J
28	L020-03M	5.9232	2.6862	.57797	.51546	.50392	1.1628	.54104	65.150	.68674	.49150	L020-03M
29	L020-03S	5.9468	2.7024	.57990	.51632	.50454	1.1736	.54123	65.127	.68555	.49029	L020-03S
30	L020-04	.17062	-.12992*	.01206	.02577	-.00012	.87712	.00001	32.941	14.679*	.00148	L020-04
31	L020-05	.25518	-.09796	.00629	.03530	-.00012	.90414	-.00002	59.181	10.918*	.00196	L020-05
32	CCV2	105.63	1.5283	1.0588	2.0431	1.5057	2.5348	2.1035	76.704	2.4616	.96584	CCV2
33	CCB2	.03887	.00088	-.00059	.00061	.00060	.00469	.00041	-.00888	.00110	.00007	CCB2
34	L020-03	.04812	-.00248	.01209	.00717	-.00002	.58633	.00018	13.103	.28218	-.00011	L020-03
35	L020-03M	5.5939	2.6088	.56230	.50301	.49419	1.1058	.52987	62.604	.76454	.47780	L020-03M
36	L020-03S	5.7608	2.6652	.57858	.51673	.50681	1.1229	.54185	63.977	.78023	.49101	L020-03S
37	L020-04	.03847	-.13167*	.00846	.02393	-.00006	.85779	.00005	31.886	14.918*	.00144	L020-04
38	L020-05	.03452	-.12118*	.00897	.03188	-.00010	.88598	.00007	54.899	13.684*	.00205	L020-05
39	L028-02	.21018	-.20558*	.00604	.04201	-.00018	.76099	.00003	69.249	23.049*	.00222	L028-02
40	L028-03	.19162	.00375	.04531	.03687	-.00012	.84177	-.00045	117.22	.11417	.04311	L028-03
41	L028-04	.06110	-.10971*	.00510	.03142	-.00018	.71493	.00008	52.550	12.295*	.00086	L028-04
42	L028-05	.15733	-.04942	.01328	.00761	-.00011	1.0113	-.00009	54.018	5.7324	.00056	L028-05
43	CCV3	104.64	1.5530	1.0770	2.0347	1.4978	2.5182	2.1085	76.768	2.4546	.96103	CCV3
44	CCB3	.03816	.00124	-.00039	.00073	.00068	.00557	.00046	-.00612	.00154	.00014	CCB3
45	L028-02	.04914	-.22508*	.00902	.04291	-.00009	.77027	.00023	75.083	24.807*	.00242	L028-02
46	L028-03	.01867	.00142	.03745	.04264	-.00009	.80892	-.00060	119.68	.16768	.03042	L028-03
47	L028-04	.02424	-.15273*	.00626	.02775	-.00017	.74534	.00000	56.808	17.161*	.00121	L028-04
48	L028-05	.02034	-.08482	.01337	.00447	-.00013	.94482	-.00005	44.165	9.4214*	.00073	L028-05
49	L027-01	.04346	.00194	.01432	.62838	-.00021	.63389	.00025	218.98	.01031	.04031	L027-01
50	L027-02	.00946	-.00097	-.00042	-.00031	-.00025	-.00373	-.00028	-.01963	-.00007	-.00029	L027-02
51	L027-04	.02284	-.00055	-.00154	.23333	-.00024	.22272	-.00016	56.375	.00049	-.00077	L027-04
52	L027-06	.02851	.00054	.01511	.94446	-.00016	.89104	-.00048	188.10	.00303	.00289	L027-06
53	L027-07	.00522	-.00107	.00027	.00013	-.00024	-.00465	-.00016	-.03515	-.00019	-.00034	L027-07
54	K270-10W	.00972	-.00166	.00417	.06493	-.00028	.17669	-.00001	144.00	.00155	-.00076	K270-10W

55	CCV4	104.30	1.5328	1.0790	2.0442	1.5038	2.5237	2.1054	77.161	2.4790	.96031	CCV4
56	CCB4	.03397	.00145	.00054	.00054	.00053	.00346	.00035	-.01064	.00080	-.00003	CCB4
57	IPL010WB	.00975	-.00068	.00124	-.00031	-.00008	-.00568	.00010	-.04802	.00009	-.00004	IPL010WB
58	IPL010WL	5.7566	2.6388	.56148	.51874	.52075	.53105	.54590	53.291	.52358	.48763	IPL010WL
59	IPL010WC	5.6748	2.5931	.56465	.50385	.51287	.55214	.53053	51.751	.51504	.46720	IPL010WC
60	TXL002SB	.01445	.00003	-.00013	.00086	-.00003	.01113	.00002	-.03687	.00009	-.00009	TXL002SB
61	K288-10A	14.124	2.5211	.56818	1.4616	.49934	.88859	.54259	54.655	.52209	.48788	K288-10A
62	K288-10	8.6844	.00068	.00396	.97960	.00038	.39740	.00015	4.7335	.02317	.00328	K288-10
63	K288-10J	1.7270	.00063	.00208	.19742	.00012	.07685	-.00001	.93024	.00469	.00070	K288-10J
64	K288-10M	20.963	2.6098	.58037	1.4074	.51052	.87031	.55314	57.751	.54491	.49667	K288-10M
65	K288-10S	20.655	2.6148	.58520	1.3928	.51839	.86727	.56179	57.832	.53948	.50140	K288-10S
66	CCV5	104.38	1.5142	1.0589	2.0605	1.5061	2.5026	2.1070	76.766	2.4544	.96177	CCV5
67	CCB5	.02809	.00180	-.00045	.00037	.00050	.00384	.00036	-.01505	.00053	.00008	CC85
68	TXL003W8	.01297	-.00099	.00091	.00050	-.00001	.00417	.00012	-.02689	.00001	.00004	TXL003WB
69	K574-07A	5.0683	2.4440	.64408	.52009	.50392	.50005	.55625	51.153	.51501	.49648	K574-07A
70	K574-07	.01032	-.00568	.00494	.01498	-.00005	.01667	-.00007	.75348	-.00009	-.00003	K574-07
71	K574-07J	.01090	.00893	.00202	.00332	.00010	.00240	.00002	.18177	.00009	.00004	K574-07J
72	K574-07M	5.3806	2.6477	.70696	.57178	.54641	.55389	.60260	55.785	.54788	.53498	K574-07M
73	K574-07S	5.0220	2.4971	.67405	.53877	.51101	.52465	.56319	51.889	.51795	.50379	K574-07S
74	K574-12	.14841	.00176	.00080	.14265	-.00005	.26301	.00012	3.8402	.00111	.00098	K574-12
75	K288-05	2.3732	.00041	-.00008	.92480	.00005	.43204	.00134	11.060	.00909	.00130	K288-05
76	K288-05M	10.295	2.5538	.56359	1.4351	.49843	.97356	.53919	61.055	.50961	.47911	K288-05M
77	K288-05S	10.480	2.6038	.57669	1.4627	.50447	.99671	.54681	62.145	.52094	.48695	K288-05S
78	CCV6	105.23	1.5206	1.0718	2.0616	1.5022	2.5462	2.1040	76.648	2.497B	.96306	CCV6
79	CCB6	.02588	.00148	-.00010	.00041	.00034	.00402	.00028	-.02313	.00044	.00013	CCB6
80	TXL001SB	.03387	-.00038	.00068	.00099	.00011	.01257	.00023	-.02020	.00039	-.00007	TXL001SB
81	K574-03A	5.6915	2.5375	.56676	.78589	.49614	.73406	.55345	52.811	.50586	.48223	K574-03A
82	K574-03	.09666	.00126	.00122	.29093	-.00003	.22753	.01685	3.1B25	.00065	.00035	K574-03
83	K574-03J	.03102	.00193	-.00056	.06127	.00020	.04501	.00351	.65745	.00010	.00004	K574-03J
84	K574-03M	5.8235	2.6421	.58007	.81497	.51242	.78399	.56814	54.942	.51860	.48903	K574-03M
85	K574-03S	5.7879	2.6479	.58274	.82201	.51196	.78132	.57143	54.930	.51779	.49092	K574-03S
86	K574-01	.05880	.00057	-.00065	.43606	.00003	.23784	.00139	3.4570	.00035	.00022	K574-01
87	K574-02	.84756	.00204	.00086	.04849	.00004	.23532	.00127	12.335	.03220	.01619	K574-02
88	CCV7	103.16	1.4896	1.0545	2.0479	1.4943	2.4683	2.0832	75.988	2.4432	.94767	CCV7
89	CCB7	.03233	.00201	.00064	.00062	.00060	.00325	.00039	.00960	.00064	.00010	CCB7
90	K574-04	.05330	.00037	-.00073	.13482	-.00001	.19474	.00033	23.840	.00189	.00001	K574-04
91	K574-05	.04850	.00084	.00042	.18538	-.00004	2.0960	.00913	10.321	.00054	.00047	K574-05
92	K574-06	3.1410	.00317	.00059	.29406	-.00004	.23529	.04765	147.53	.00432	.19454	K574-06
93	K574-09	.19893	.00099	.00084	.31022	.00002	.31016	.01366	10.118	.00236	.00311	K574-09
94	K574-11	.02122	-.00104	-.00054	.43902	-.00006	.22863	.00000	.28490	.00028	-.00014	K574-11
95	K577-01	.02116	.00081	.00045	.13133	-.00006	.26868	.00240	18.982	.00088	.03900	K577-01
96	CCV8	103.98	1.4977	1.0580	2.0553	1.4917	2.5145	2.0796	75.819	2.4790	.95223	CCV8
97	CCB8	.03330	.00100	.00076	.00073	.00059	.00296	.00038	.01075	.00065	.00015	CCB8
98	IPL013W8	.02747	.00022	.00027	.00088	.00011	-.00107	.00005	-.00937	.00004	.00000	IPL013WB
99	IPL013WL	5.5169	2.5359	.53698	.50742	.50559	.51469	.52897	51.384	.50749	.47493	IPL013WL
100	IPL013WC	5.5518	2.5381	.54096	.50976	.50642	.51382	.53294	51.365	.51036	.47830	IPL013WC
101	WTL002SB	.01930	-.00477	.00343	.00112	.00002	-.00103	.00000	-.01634	.00587*	-.00009	WTL002SB
102	K288-10A	9.8314	3.0475	.76058	.76252	.54479	.59816	.61716	69.182	.62763	.55368	K288-10A
103	K2B8-10	3.2415	-.00426	.00512	.17392	.00062	.00109	.00124	13.373	.04151	.01103	K288-10
104	K288-10J	.64440	.00066	.00179	.03440	.00013	-.00159	.00021	2.7287	.00834	.00211	K288-10J
105	K2B8-10M	9.0988	2.7643	.68107	.69546	.48357	.54172	.55106	63.664	.56888	.49428	K288-10M
106	K288-10S	9.2797	2.8321	.70449	.71250	.50074	.55827	.56829	63.868	.57716	.50840	K288-10S
107	K288-05	2.9568	-.00119	.00817	.20791	.00069	.00228	.00444	17.918	.07164	.01170	K288-05
108	CCV9	104.98	1.4958	1.0651	2.0611	1.4879	2.5254	2.0825	75.705	2.5094	.95222	CCV9
109	CCB9	.03587	.00113	.00037	.00069	.00061	.00149	.00040	.01297	.00071	.00015	CCB9
110	IPL004WQ	.01883	-.00024	.00152	.00073	.00006	-.00619	.00026	-.01088	.00022	.00010	IPL004WQ
111	IPL004WX	5.6212	2.5665	.54931	.51782	.50791	.52060	.53599	52.582	.51795	.48145	IPL004WX

112	IPL004WY	5.4999	2.6263	.53766	.50960	.49841	.52721	.52706	50.617	.50875	.47434	IPL004WY
113	K307-07A	5.7557	2.5336	.59505	.86671	.50800	.55985	.53967	118.40	.51839	.48602	K307-07A
114	K307-07W	.05995	.00083	.03516	.35428	.00009	.03609	.00032	70.072	.00213	.00222	K307-07W
115	K307-07J	.03163	.00240	.00765	.07526	.00024	.00548	.00009	14.465	.00061	.00053	K307-07J
116	L039-02	.01755	-.00029	.00420	.08966	-.00001	.05293	.00017	65.201	.01010	-.00027	L039-02
117	L039-03	.01864	-.00101	.00409	.09373	-.00005	.05309	.00009	64.281	.00585	-.00036	L039-03
118	CCV10	104.93	1.5026	1.0677	2.0738	1.4876	2.5552	2.0801	75.516	2.5287	.95243	CCV10
119	CCB10	.03485	.00183	.00093	.00076	.00055	.00180	.00040	.01025	.00065	.00014	CCB10
120	IPL015S8	.02854	.00101	-.00156	.00047	.00014	-.00270	.00000	-.03364	.00033	-.00018	IPL015S8
121	IPL015SL	5.2051	2.4022	.51705	.50855	.49676	.46849	.53324	51.769	.51251	.48447	IPL015SL
122	IPL015SC	5.1661	2.4199	.51076	.50655	.49143	.46684	.52930	51.525	.50352	.47964	IPL015SC
123	L076-07A	68.969	2.4921	.63305	1.4054	.51785	.51715	1.1022	190.21	.62854	.54712	L076-07A
124	L076-07	68.691	.02664	.08880	.95433	.00711	.03608	.60350	155.11	.12660	.05379	L076-07
125	L076-07J	13.212	.00697	.01561	.18266	.00115	.00521	.11336	30.738	.02460	.00994	L076-07J
126	L076-07M	98.415	2.3705	.59575	1.3115	.48056	.48661	1.1194	217.89	.64796	.50202	L076-07M
127	L076-07S	107.42	2.3748	.60365	1.6752	.47783	.49944	1.1034	204.11	.66995	.52907	L076-07S
128	L076-01	91.893	.01040	.06125	.95567	.00590	.09945	.08998	41.017	.12762	.03413	L076-01
129	L076-02	72.393	.02894	.12787	.72535	.01080	.06119	.42245	117.70	.17610	.05887	L076-02
130	CCV11	105.36	1.5377	1.1062*	2.0740	1.4929	2.5841	2.0926	75.976	2.5595	.95539	CCV11
131	CCB11	.02618	.00053	-.00026	.00025	.00023	.00199	.00017	-.00735	.00025	.00001	CCB11
132	L076-03	67.816	.02249	.10053	.88938	.00828	.04398	.31376	103.83	.13571	.05827	L076-03
133	L076-04	81.373	.00996	.06038	.85054	.00572	.03430	.12802	43.800	.11776	.05464	L076-04
134	L076-05	82.070	.01519	.07664	2.0107	.00667	.02712	.27723	72.704	.12051	.15355	L076-05
135	L076-06	187.52	.01446	.07124	3.3829	.00993	.03744	.20065	58.860	.22559	.13601	L076-06
136	CCV12	105.02	1.5608	1.1275*	2.0794	1.4922	2.5869	2.0953	75.924	2.5647	.95660	CCV12
137	CCB12	.02982	.00194	.00081	.00040	.00022	.00189	.00014	-.00899	.00023	.00003	CCB12
138	L075-01	88.684	.02382	.08603	.95867	.00728	.03601	.30587	70.045	.15159	.05728	L075-01
139	L075-02	74.559	.03010	.09519	.80551	.00675	.03923	.65336	169.74	.12478	.04771	L075-02
140	L075-03	87.946	.01303	.11488	.87149	.00602	.05510	.00084	16.633	.28364	.04298	L075-03
141	L075-04	78.864	.00729	.07211	.90344	.00528	.02650	.00154	17.097	.16852	.04212	L075-04
142	L075-05	87.225	.00825	.08556	1.0378	.00624	.04611	.01202	77.866	.17497	.04801	L075-05
143	L075-06	125.29	.01070	.10540	1.2813	.00774	.05593	-.00169	18.063	.24051	.06437	L075-06
144	L075-07	91.422	.01209	.10009	.93821	.00664	.06268	.00270	17.184	.29930	.16154	L075-07
145	L075-08	134.31	.01712	.11897	.88791	.00802	.07736	-.00316	16.108	.37676	.05683	L075-08
146	CCV13	105.05	1.5520	1.1235*	2.0892	1.5013	2.5687	2.1173	76.332	2.5536	.96231	CCV13
147	CCB13	.02229	.00016	-.00033	-.00001	.00003	.00106	-.00001	.05447	.00017	-.00011	CCB13
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00148	.00012	.00004	.00009	.00003	.00005	.00029	-.00025	-.00020	.00000	Blank
2	S20			.19333			.11765					S20
3	S21			1.8973			1.1458					S21
4	S22	.34334	.06571									S22
5	S23	3.3260	2.4875									S23
6	S24							.71074				S24
7	S25							7.1376				S25
8	S26								.77033	.32732		S26
9	S27								7.2246	3.2315		S27
10	S28					.11607						S28
11	S29					.47220						S29
12	S30				.02692						.00163	S30
13	S31				.13136						.00636	S31
14	ICV	2.4542	24.197	2.3912	.50361	56.360	2.3394	2.4742	2.4588	59.467	1.0158	ICV
15	ICB	.00056	-.00772	.00029	.00007	.01999	.00078	.00028	.00052	.10926	.00039	ICB
16	MRLL071	.00989	.19692	.01016	.00958	.96666	.00985	.00975	.00989	1.0367	.00893	MRLL071
17	MRLL072	-.00015	-.01317	.00022	-.00021	.00241	.00018	-.00032	.00010	.05163	-.00102	MRLL072
18	ICSA1	.00171	190.97	-.00208	.00595	189.11	.00088	-.00199	-.00054	.19370	.00183	ICSA1
19	ICSAB1	.57815	205.32	1.0085	1.1895	202.69	.50309	1.1168	1.0615	86.360	1.1735	ICSAB1
20	CCV1	2.5343	25.154	2.4368	.52672	57.100	2.3982	2.5497	2.4977	60.339	1.0417	CCV1
21	CCB1	.00031	.00063	.00059	.00004	.03101	.00055	.00025	.00022	.10934	-.00112	CCB1
22	IPL011WB	-.00010	-.00606	.00029	.00003	.00647	.00016	-.00024	.00013	.06917	.00000	IPL011WB
23	IPL011WL	.54550	5.6597	.53236	-.00011*	51.522	.52317	.54231	.54234	54.353	.55973	IPL011WL
24	IPL011WC	.51790	5.3749	.50215	-.00006*	48.311	.49509	.50904	.51333	51.392	.53475	IPL011WC
25	L020-03A	.54335	5.4832	.51318	.00962	55.219	.50856	.54604	.52118	63.344	.56081	L020-03A
26	L020-03	.00221	.14074	.01081	.00859	8.3449	.01285	.03587	.00207	11.344	.00059	L020-03
27	L020-03J	.00136	.02812	.00238	.00229	1.8693	.00303	.00737	.00055	2.4142	-.00021	L020-03J
28	L020-03M	.53592	5.4810	.50940	.00969	56.284	.50496	.55252	.51904	64.121	.55544	L020-03M
29	L020-03S	.53581	5.4943	.51210	.00991	56.365	.50657	.55091	.51890	64.524	.56105	L020-03S
30	L020-04	.00229	.16925	.01106	.03336	23.271	.00561	.04681	.00134	21.366	.00094	L020-04
31	L020-05	.00674	.81697	.01663	.03333	42.214	.22406	.01025	.01059	17.319	.00091	L020-05
32	CCV2	2.5609	25.416	2.4273	.53125	57.057	2.4035	2.5328	2.4972	61.053	1.0620	CCV2
33	CCB2	.00071	-.00624	.00062	-.00014	.03015	.00115	.00039	.00061	.17958	-.00018	CCB2
34	L020-03	.00102	-.00949	.01218	.00905	8.7128	.01173	.02682	.00144	11.001	.00118	L020-03
35	L020-03M	.51368	5.1707	.50000	.00973	55.332	.48988	.53275	.50467	62.286	.53626	L020-03M
36	L020-03S	.52623	5.3142	.51073	.00979	56.855	.50289	.54062	.51877	63.969	.55171	L020-03S
37	L020-04	.00188	.01587	.01057	.03265	23.288	.00359	.04221	.00156	20.954	.00277	L020-04
38	L020-05	.00129	.11157	.01474	.03400	42.127	.18552	.00876	.00833	17.090	.00163	L020-05
39	L028-02	.00180	.28714	.01276	.03809	52.434	.02923	.01189	.00346	16.883	.00210	L028-02
40	L028-03	.00248	135.01	.04014	.07080	80.314	6.5490	.00115	.02488	24.403	.00748	L028-03
41	L028-04	.00570	.06438	.01410	.04209	43.366	.00883	.00405	.00125	15.516	.00241	L028-04
42	L028-05	.00191	2.3797	.01287	.04326	71.790	.71312	.00257	.00175	36.156	.00199	L028-05
43	CCV3	2.5321	25.495	2.4389	.52905	57.030	2.3861	2.5264	2.4896	60.890	1.0826	CCV3
44	CCB3	.00077	-.00563	.00036	.00063	.02115	.00118	.00037	.00044	.21719	-.00075	CCB3
45	L028-02	.00158	.04992	.01233	.04155	56.733	.02294	.01168	.00315	17.686	.00161	L028-02
46	L028-03	.00146	110.12	.03340	.06257	74.489	5.3539	.00080	.01923	22.347	.00388	L028-03
47	L028-04	.00184	.01315	.01154	.04440	46.751	.00474	.00418	.00044	16.474	.00108	L028-04
48	L028-05	.00116	.04181	.01120	.04142	66.213	.49217	.00253	.00074	33.355	.00087	L028-05
49	L027-01	.00191	59.037	.03536	.03400	514.96	27.005	-.00257	.06192	64.134	-.00058	L027-01
50	L027-02	.00000	-.00478	-.00020	-.00043	.05377	.00318	-.00054	.00042	.50002	-.00146	L027-02
51	L027-04	.00078	.04880	.03968	.00146	189.75	1.2076	-.00069	.00232	7.3700	-.00042	L027-04
52	L027-06	.00113	31.246	.02922	.02166	401.14	10.938	-.00175	.00821	32.562	-.00155	L027-06
53	L027-07	-.00025	-.01243	.00024	-.00071	.02986	.00085	-.00040	.00036	.36115	-.00105	L027-07
54	K270-10W	.00115	-.02265	.02713	.02362	35.706	-.00009	.05629	.00063	1.7021	.00688	K270-10W

55	CCV4	2.5353	25.606	2.4304	.53062	57.501	2.3928	2.5020	2.4857	61.369	1.0753	CCV4
56	CCB4	.00051	-.00592	.00088	-.00050	.02422	.00146	.00026	.00040	.16262	.00146	CCB4
57	IPL010WB	-.00006	-.01549	.00030	-.00032	-.00723	-.00003	-.00015	.00027	.19788	-.00061	IPL010WB
58	IPL010WL	.52103	5.5546	.50979	.00056*	50.405	.50307	.50282	.51789	53.368	.55468	IPL010WL
59	IPL010WC	.51262	5.4787	.49456	-.00030*	49.225	.49241	.47435	.49744	52.040	.59234	IPL010WC
60	TXL002SB	.00045	-.01533	.00047	-.00054	-.00049	-.00007	.00012	-.00007	.30378	.00145	TXL002SB
61	K288-10A	.51609	13.070	.51954	.00172	48.117	.59765	.49791	.52140	54.688	.57251	K288-10A
62	K288-10	.00461	8.2579	.02180	.00125	1.1272	.11745	.00057	.00976	2.2012	.00271	K288-10
63	K288-10J	.00084	1.6636	.00481	.00039	.22960	.02383	-.00004	.00206	.47794	-.00043	K288-10J
64	K288-10M	.52858	14.664	.53448	.00399	50.909	.62113	.51859	.53739	57.406	.58366	K288-10M
65	K288-10S	.52849	14.373	.54114	.00355	51.350	.62135	.52248	.54409	57.506	.59359	K288-10S
66	CCV5	2.5305	25.370	2.4289	.53648	57.123	2.3778	2.5193	2.4898	61.714	1.0578	CCV5
67	CCB5	.00033	-.00957	.00086	.00021	.01875	.00088	.00028	.00029	.15128	.00004	CCB5
68	TXL003WB	.00002	-.00028	.00025	-.00036	.00214	.00023	-.00006	.00043	.15792	-.00008	TXL003WB
69	K574-07A	.48931	5.3034	.49202	.00017	46.911	.49011	.52544	.52613	50.308	.79215	K574-07A
70	K574-07	.00047	-.00897	-.00003	-.00104	.22689	.00047	-.00049	-.00009	.24380	.03092	K574-07
71	K574-07J	.00014	-.01043	.00087	-.00070	.05004	.00027	-.00025	-.00002	.10788	.00659	K574-07J
72	K574-07M	.51969	5.6412	.52512	.00028	51.140	.52152	.57962	.56857	54.304	.88787	K574-07M
73	K574-07S	.49144	5.2884	.48851	.00009	47.253	.48834	.54071	.53401	50.986	.85092	K574-07S
74	K574-12	.06494	1.6707	.00128	.00093	.08437	.02252	.02570	.22307	.32534	.00084	K574-12
75	K288-05	.00306	2.1635	.02887	.00060	2.6702	.11358	-.00025	.00390	1.8652	.00217	K28B-05
76	K288-05M	.51183	7.6454	.52108	.00241	49.887	.59055	.50168	.51189	55.038	.57507	K288-05M
77	K288-05S	.52300	7.7818	.52973	.00216	50.705	.60071	.50919	.51866	56.475	.58685	K288-05S
78	CCV6	2.5758	25.488	2.4248	.54063	56.747	2.3823	2.5141	2.4905	62.297	1.0703	CCV6
79	CCB6	.00024	-.01157	.00106	-.00003	.01269	.00084	.00017	.00034	.14355	-.00010	CCB6
80	TXL001SB	.00077	-.00901	.00091	-.00106	.00945	.00033	.00027	.00087	.33860	.00122	TXL001SB
81	K574-03A	.54064	5.3447	.49326	.00020	47.731	.49053	.50753	.51300	55.251	.57468	K574-03A
82	K574-03	.02357	.08850	.00116	.00047	1.1124	.00876	.00934	.00517	2.4096	.00232	K574-03
83	K574-03J	.00501	.00823	.00122	-.00023	.24897	.00205	.00179	.00097	.54134	.00078	K574-03J
84	K574-03M	.54851	5.4897	.50482	.00003	50.257	.50171	.52445	.52264	57.101	.58693	K574-03M
85	K574-03S	.54881	5.5143	.50669	.00065	49.915	.50152	.52910	.52496	57.250	.58564	K574-03S
86	K574-01	.01656	.10377	.00160	-.00114	.71792	.01408	.00017	.02071	1.1754	.00120	K574-01
87	K574-02	.15280	1.6349	.00214	.00251	3.6711	.10322	.00468	.22769	26.051	.00210	K574-02
88	CCV7	2.5043	25.151	2.4020	.53353	56.928	2.3557	2.4761	2.4564	61.369	1.0513	CCV7
89	CCB7	.00047	-.00819	.00094	.00025	.02552	.00097	.00034	.00040	.17929	-.00023	CCB7
90	K574-04	.00265	.06759	.00825	.00020	.23726	.02852	.04380	.00710	1.2954	.00209	K574-04
91	K574-05	.00136	.00691	.00143	2.7938	5.0690	.02830	.00780	.01584	2.6477	.00210	K574-05
92	K574-06	.53406	.38269	.01862	.01379	7.7232	.14163	-.00085	.08334	3.4917	.00281	K574-06
93	K574-09	.00217	.29839	.13390	.02309	.66973	.07546	.01224	.00626	2.9728	.00181	K574-09
94	K574-11	.00243	.00530	.00156	.00040	.03372	.00032	.00486	.00032	.96476	.00183	K574-11
95	K577-01	2.5938	.66747	.01374	.04252	14.552	3.7915	.00091	6.0588	6.5084	.00178	K577-01
96	CCV8	2.5481	25.215	2.3947	.53892	56.349	2.3560	2.4794	2.4605	62.016	1.0583	CCV8
97	CCB8	.00044	-.00748	.00122	-.00008	.02400	.00121	.00025	.00052	.18890	-.00067	CCB8
98	IPL013WB	-.00015	-.01213	-.00008	-.00004	.01817	.00012	-.00018	.00019	.10386	-.00048	IPL013WB
99	IPL013WL	.50838	5.3015	.49311	.00034*	48.647	.48599	.49755	.50254	52.558	.52720	IPL013WL
100	IPL013WC	.51178	5.3545	.49750	-.00034*	48.504	.48668	.49850	.50690	52.571	.52797	IPL013WC
101	WTL002SB	.00124	-.00891	.00036	.00133	.00435	-.00006	-.00024	.00050	2.3323*	.02344*	WTL002SB
102	K288-10A	.63352	10.788	.75160	.00266	53.137	.96262	.58059	.57439	72.236	.86327	K288-10A
103	K288-10	.00818	4.6025	.19846	.00195	2.1912	.39442	.00019	.00623	5.8042	.02789	K288-10
104	K288-10J	.00182	.91647	.04116	.00095	.46446	.08028	-.00007	.00104	1.0754	.00461	K288-10J
105	K288-10M	.56795	9.8354	.68279	.00188	48.608	.88012	.52566	.51359	67.469	.77667	K288-10M
106	K288-10S	.58506	9.9813	.69634	.00241	48.867	.88679	.53850	.52900	67.598	.80174	K288-10S
107	K28B-05	.01858	4.5989	.50103	.00248	4.0586	.50933	.00030	.00932	5.6597	.02801	K288-05
108	CCV9	2.5656	25.310	2.3941	.54544	56.236	2.3299	2.4701	2.4612	62.906	1.0626	CCV9
109	CCB9	.00039	-.00980	.00049	.00084	.02487	.00105	.00043	.00039	.29898	.00077	CCB9
110	IPL004WQ	.00023	-.00734	.00040	-.00014	.00235	.00022	-.00005	.00100	.29216	-.00088	IPL004WQ
111	IPL004WX	.51930	5.3818	.49957	.00054*	49.465	.48562	.49865	.50981	55.174	.54128	IPL004WX

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	IPL004WY	.50983	5.2764	.49091	-.00067*	47.423	.47819	.51670	.50162	53.002	.52346	IPL004WY
113	K307-07A	.52610	6.2846	.51070	.00972	62.150	1.5404	.50179	.51332	56.166	.54672	K307-07A
114	K307-07W	.00178	.94191	.00928	.00927	15.148	1.0796	.00572	.00368	2.5032	-.00147	K307-07W
115	K307-07J	.00024	.18473	.00181	.00182	3.1335	.22464	.00094	.00084	.60107	-.00030	K307-07J
116	L039-02	.00061	.10090	.02083	.03041	12.607	.00712	.00268	.00005	2.7141	-.00027	L039-02
117	L039-03	.00030	.51142	.01559	.03172	12.532	.00834	.00266	.00005	2.5511	.00024	L039-03
118	CCV10	2.5999	25.273	2.3922	.55068*	56.001	2.3286	2.4620	2.4617	63.527	1.0709	CCV10
119	CCB10	.00032	-.00812	.00090	.00022	.01571	.00102	.00026	.00044	.16927	-.00066	CCB10
120	IPL015S8	-.00015	-.00129	.00050	.00049	.00600	.00060	.00019	.00007	.15881	-.00027	IPL015S8
121	IPL015SL	.50523	5.2274	.49115	-.00010*	48.728	.47739	.50855	.50976	53.642	.49902	IPL015SL
122	IPL015SC	.49730	5.1662	.48774	-.00085*	48.514	.47429	.51391	.50592	53.791	.48997	IPL015SC
123	L076-07A	.83976	116.02	2.1093	.03591	72.634	3.9451	.52032	.61722	62.286	.54258	L076-07A
124	L076-07	.33436	122.43	1.7710	.03863	27.320	3.8085	.00624	.10627	8.6758	.01202	L076-07
125	L076-07J	.06313	24.182	.34465	.00677	5.3632	.75100	-.00007	.01966	1.6636	.00214	L076-07J
126	L076-07M	.83932	122.99	2.1828	.06529	75.584	3.2054	.49474	.59036	64.087	.49706	L076-07M
127	L076-07S	.82850	129.82	2.1064	.07440	74.209	6.3967	.48996	.59112	66.048	.50335	L076-07S
128	L076-01	.38438	100.99	.98416	.05028	15.884	2.7374	.00353	.07147	8.5499	.00632	L076-01
129	L076-02	2.3831	139.15	7.0403	.05587	49.654	2.5255	.00796	.19956	13.709	.01984	L076-02
130	CCV11	2.6144	25.450	2.4056	.55201*	56.573	2.3478	2.4619	2.4641	64.007	1.1042*	CCV11
131	CCB11	.00015	-.00877	.00048	-.00014	.00778	.00058	.00012	.00004	.12599	.00012	CCB11
132	L076-03	1.5085	117.56	4.4346	.04521	43.206	4.2977	.00559	.15172	10.252	.01224	L076-03
133	L076-04	.17976	109.07	.77641	.03735	9.5179	3.2318	.00269	.06972	5.4624	.00666	L076-04
134	L076-05	.44213	109.01	2.5371	.03966	26.933	14.443	.00571	.15030	6.1458	.00773	L076-05
135	L076-06	.17470	156.33	.58618	.08328	22.308	11.131	.00205	.16000	9.6113	.00487	L076-06
136	CCV12	2.6160	25.513	2.4074	.55035*	56.536	2.3537	2.4592	2.4660	63.695	1.1270*	CCV12
137	CCB12	.00016	-.00681	.00052	-.00050	.01013	.00098	.00006	.00007	.12900	-.00038	CCB12
138	L075-01	.38851	150.09	1.6725	.04237	24.720	2.8614	.00553	.11459	7.0346	.00772	L075-01
139	L075-02	.46319	147.81	7.0430	.04382	48.867	2.3944	.00548	.12917	8.2063	.00979	L075-02
140	L075-03	.06245	241.61	.28804	.03858	5.4920	2.6136	.00760	.05208	6.2427	.00703	L075-03
141	L075-04	.05768	136.04	.23958	.03469	5.2634	2.5013	.00518	.04483	4.9907	.00548	L075-04
142	L075-05	.08436	168.80	.43520	.04528	6.2425	2.9983	.00843	.07127	8.2117	.00514	L075-05
143	L075-06	.07695	244.49	.36219	.05874	7.9018	3.0306	.01012	.07170	7.9890	.00786	L075-06
144	L075-07	.07121	252.13	1.6473	.04299	5.7750	6.3204	.00942	.07206	8.4532	.00815	L075-07
145	L075-08	.06849	348.83	1.1517	.05982	8.4050	2.1212	.01267	.10223	7.2885	.00817	L075-08
146	CCV13	2.6036	25.553	2.4350	.55153*	57.084	2.3579	2.4783	2.4852	63.620	1.1203*	CCV13
147	CCB13	.00006	-.00268	.00077	.00020	-.00290	.00031	.00001	.00011	.07771	-.00071	CCB13

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ID8L008 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00016	.00198	-.00003	-.00025	.00012	.00003	-.00005	.00260	Blank
2	S20									S20
3	S21									S21
4	S22							.15932		S22
5	S23							1.5475		S23
6	S24		1.0376							S24
7	S25		6.0607							S25
8	S26									S26
9	S27									S27
10	S28				.12862					S28
11	S29				1.2383					S29
12	S30	.04570		.12989		.02452	.01598		.62286	S30
13	S31	.22072		.63580		.12152	.07872		6.0374	S31
14	ICV	.47702	61.675	.48433	2.3960	.48842	.49212	1.5022	2.6242	ICV
15	ICB	.00024	.02975	.00021	.00051	-.00041	.00032	.00007	-.00189	ICB
16	MRLL071	.00989	1.0367	.00999	.01055	.00007	.01056	.00976	.01267*	MRLL071
17	MRLL072	-.00006	-.00185	-.00003	.00050	.00029	.00010	-.00035	.01834	MRLL072
18	ICSA1	.00022	.08508	.02077	.00053	.00108	.00110	-.00141	-.00032	ICSA1
19	ICSAB1	1.1928	89.207	.55788	.99199	1.0612	1.0581	.53682	1.1316	ICSAB1
20	CCV1	.49736	62.698	.49372	2.4117	.50648	.49870	1.4970	2.6476	CCV1
21	CCB1	.00007	.03475	.00014	.00029	-.00034	-.00008	-.00012	-.00254	CCB1
22	IPL011WB	.00007	.01315	.00024	.00028	-.00044	.00008	-.00036	.00191	IPL011WB
23	IPL011WL	.54978	56.083	.51364	.53473	.52943	.54471	.55216	.57840	IPL011WL
24	IPL011WC	.52322	53.014	.48666	.50477	.49716	.51310	.52146	.54349	IPL011WC
25	L020-03A	.53813	329.29	.62571	.48728	.49448	.50741	.52986	.58126	L020-03A
26	L020-03	.00004	283.14	.14857	.00032	.00046	.00485	.00444	.02313	L020-03
27	L020-03J	.00009	63.885	.03293	.00004	.00029	.00154	.00076	.00584	L020-03J
28	L020-03M	.54344	336.83	.63223	.48746	.50043	.51439	.52976	.58198	L020-03M
29	L020-03S	.54427	340.93	.63389	.48798	.50068	.51723	.52947	.58194	L020-03S
30	L020-04	.00045	786.63*	.47993	.00480	-.00041	.01275	.01235	-.00489	L020-04
31	L020-05	.00024	885.80*	.82343	.00355	.00025	.01065	.00356	.01108	L020-05
32	CCV2	.50635	63.900	.49923	2.4025	.50207	.49906	1.5106	2.6565	CCV2
33	CCB2	.00009	.23133	.00015	.00035	.00000	.00057	.00012	-.00235	CCB2
34	L020-03	.00002	277.81	.14187	-.00015	.00012	.00027	.00933	-.00125	L020-03
35	L020-03M	.52199	327.25	.61221	.46842	.49207	.49982	.51813	.54494	L020-03M
36	L020-03S	.53583	332.85	.62298	.47883	.50123	.51190	.53107	.56051	L020-03S
37	L020-04	.00027	778.54*	.47781	.00375	-.00057	.00554	.01138	-.01214*	L020-04
38	L020-05	.00027	886.05*	.81045	.00397	-.00103	.00596	.00334	-.01202*	L020-05
39	L028-02	.00051	722.15*	.97123	.00649	-.00113	.01569	.00593	-.01739*	L028-02
40	L028-03	.00019	832.93*	2.3878	-.00299	.00392	.01784	.00246	.00561	L028-03
41	L028-04	.00023	777.41*	.78416	.00288	-.00070	.00554	.00785	.02056	L028-04
42	L028-05	.00022	1037.7*	.57698	.00097	.00043	.01631	.00149	-.00190	L028-05
43	CCV3	.50499	64.097	.49548	2.4077	.50548	.49810	1.5101	2.6803	CCV3
44	CCB3	.00017	.39034	.00023	.00016	-.00047	.00064	-.00008	-.00231	CCB3
45	L028-02	.00046	776.28*	1.0392	.00734	-.00168	.00907	.00505	-.01944*	L028-02
46	L028-03	.00044	799.61*	2.1566	-.00244	.00202	.00117	.00113	-.00003	L028-03
47	L028-04	.00032	838.31*	.84020	.00386	-.00105	.00583	.00726	-.01076*	L028-04
48	L028-05	.00012	995.59*	.51453	.00198	-.00075	.00367	-.00026	-.00806*	L028-05
49	L027-01	.00063	2126.5*	2.2450	-.00344	.00102	.00314	.00259	.00241	L027-01
50	L027-02	.00006	1.4469	.00018	.00035	-.00028	.00003	-.00067	-.00117	L027-02
51	L027-04	.00003	489.64	.46697	.00036	-.00048	.00066	-.00119	-.00198	L027-04
52	L027-06	-.00004	800.74*	1.7111	-.00138	-.00015	.00269	-.00007	-.00041	L027-06
53	L027-07	-.00009	.78784	.00006	.00010	-.00016	-.00005	-.00070	-.00227	L027-07
54	K270-10W	-.00031	76.999	.44726	-.00013	-.00079	.00114	.01437	.00134	K270-10W

55	CCV4	.50699	64.098	.49805	2.3755	.49925	.49934	1.5128	2.6905	CCV4
56	CCB4	.00018	.35450	.00013	.00023	-.00017	.00030	-.00013	-.00243	CCB4
57	IPL010WB	.00028	.18518	-.00010	.00057	-.00053	.00015	-.00032	-.00233	IPL010WB
58	IPL010WL	.53540	54.759	.48993	.51010	.49714	.52038	.53719	.56399	IPL010WL
59	IPL010WC	.53454	53.296	.47585	.49944	.47479	.50559	.52165	.54960	IPL010WC
60	TXL002SB	.00008	332.56*	.00134	-.00089	.00047	-.00001	-.00029	-.00111	TXL002SB
61	K288-10A	.51636	371.95	.50504	.47621	.48151	.80053	.53513	1.4447	K288-10A
62	K288-10	-.00006	331.13	.03645	-.00070	.00115	.30933	.01858	.91712	K288-10
63	K288-10J	.00000	69.035	.00736	.00041	.00034	.06284	.00356	.17497	K288-10J
64	K288-10M	.54582	415.14	.53089	.48447	.50350	.86558	.55104	1.3943	K288-10M
65	K288-10S	.54381	401.84	.52939	.49256	.50637	.85924	.55200	1.3795	K288-10S
66	CCV5	.50154	64.214	.49908	2.3872	.50002	.50136	1.5030	2.6709	CCV5
67	CCB5	.00016	.26835	.00018	.00052	-.00019	.00033	-.00016	-.00207	CCB5
68	TXL003WB	-.00010	.18076	.00007	.00031	-.00047	.00065	-.00029	.00119	TXL003WB
69	K574-07A	.48011	53.701	.47959	.47481	.49275	.49972	.52487	.60523	K574-07A
70	K574-07	-.00010	2.6427	.00279	-.02174*	.01099	.00007	-.00032	.00663	K574-07
71	K574-07J	.00006	.67453	.00061	-.00431	.00225	.00031	-.00022	.00232	K574-07J
72	K574-07M	.52313	58.084	.51945	.50538	.54184	.54655	.56273	.66540	K574-07M
73	K574-07S	.49463	54.513	.49043	.46938	.50106	.50938	.52788	.62271	K574-07S
74	K574-12	.00018	2.3764	.00332	-.00065	.00054	.00002	-.00042	5.8493	K574-12
75	K288-05	-.00007	334.34	.04508	-.00189	.00069	.08477	.00507	2.0344	K288-05
76	K288-05M	.52876	385.01	.51972	.47132	.48327	.60414	.51936	2.5481	K28B-05M
77	K288-05S	.54173	391.39	.53066	.47960	.48824	.60954	.52B43	2.5934	K28B-05S
78	CCV6	.51024	64.607	.50390	2.3806	.49706	.49767	1.5115	2.6708	CCV6
79	CCB6	.00009	.20979	.00007	.00064	-.00029	.00026	.00001	-.00226	CCB6
80	TXL001SB	.00019	339.71*	.00136	-.00059	.00013	.00011	-.00019	.00048	TXL001SB
81	K574-03A	.52307	378.12	.49059	.47250	.47624	.49603	.51774	1.1573	K574-03A
82	K574-03	.00012	337.90	.01915	-.00131	.00040	.00006	-.00036	.63522	K574-03
83	K574-03J	.00030	73.248	.00402	-.00019	.00015	.00015	-.00044	.12433	K574-03J
84	K574-03M	.54731	400.99	.50376	.48270	.49550	.51838	.52903	1.2429	K574-03M
85	K574-03S	.54463	403.10	.50618	.48339	.49882	.51823	.53036	1.2549	K574-03S
86	K574-01	.00021	326.15	.04114	-.00092	.00052	.00037	-.00032	.46048	K574-01
87	K574-02	.00020	349.40	.04214	-.00099	.00561	.00696	.00139	1.1558	K574-02
88	CCV7	.49622	63.808	.49472	2.3497	.49150	.49614	1.4830	2.6550	CCV7
89	CCB7	.00013	.27668	.00019	.00075	-.00008	.00031	.00004	-.00140	CCB7
90	K574-04	-.00004	334.96	.01594	-.00070	.00060	.00059	-.00020	.73158	K574-04
91	K574-05	.00005	377.51	.04901	-.00121	.00053	.00021	-.00037	1.3211	K574-05
92	K574-06	-.00002	375.02	.13871	-.00160	.00056	.00245	-.00026	18.102	K574-06
93	K574-09	.00013	350.81	.06239	-.00106	.00064	.00052	.00075	2.8303	K574-09
94	K574-11	.00032	345.39	.00721	-.00096	.00036	.00019	-.00028	.38162	K574-11
95	K577-01	.00004	340.46	.15842	-.00172	.00039	.00025	-.00053	5.7675	K577-01
96	CCV8	.50615	64.363	.50065	2.3524	.49035	.49420	1.4948	2.6419	CCV8
97	CCB8	.00014	.29376	.00012	.00091	-.00005	.00038	.00010	-.00125	CCB8
98	IPL013WB	.00015	.19402	.00028	-.00010	-.00014	.00011	-.00029	.00312	IPL013WB
99	IPL013WL	.51724	53.882	.48729	.49118	.48250	.51001	.51429	.54176	IPL013WL
100	IPL013WC	.52041	53.968	.48778	.49295	.48447	.51107	.51688	.54473	IPL013WC
101	WTL002SB	.00023	2161.4*	.00040	-.01551	.00802	.00076	-.00025	-.00186	WTL002SB
102	K288-10A	.67088	2457.9*	.61546	.49039	.53427	.75562	.60982	1.6635	K288-10A
103	K288-10	.00027	2201.5*	.07311	-.01766*	.00973	.18462	.01575	.93508	K288-10
104	K288-10J	.00005	606.54	.01460	-.00304	.00133	.03706	.00281	.17915	K288-10J
105	K288-10M	.51338	2225.6*	.56306	.43833	.46866	.68253	.54633	1.5503	K288-10M
106	K288-10S	.63690	2228.9*	.57572	.45138	.49061	.69933	.55954	1.5598	K288-10S
107	K288-05	.00023	2262.8*	.07333	-.01899*	.01032	.1700B	.02335	5.0902	K288-05
108	CCV9	.51071	68.132*	.50257	2.3401	.48411	.49227	1.4968	2.6444	CCV9
109	CCB9	.00020	.95806*	.00023	.00028	.00007	.00022	.00000	-.00132	CCB9
110	IPL004WQ	.00019	.66219*	.00008	.00163	-.00031	.00031	-.00026	.00391	IPL004WQ
111	IPL004WX	.52856	56.391	.49729	.49581	.48253	.51263	.52066	.54883	IPL004WX

112	IPL004WY	.51699	54.289	.51166	.48742	.49895	.52764	.51124	.54579	IPL004WY
113	K307-07A	.52743	107.32	.66302	.49075	.47755	.50348	.52252	.56420	K307-07A
114	K307-07W	.00006	54.184	.17873	.00048	-.00034	.00171	-.00019	.01297	K307-07W
115	K307-07J	.00009	11.446	.03704	.00026	-.00031	.00096	-.00020	.00819	K307-07J
116	L039-02	-.00005	45.158	.82243	.00098	-.00067	.00072	.00562	.65464	L039-02
117	L039-03	-.00012	45.165	.84040	.00061	-.00065	.00095	.00415	.02674	L039-03
118	CCV10	.51651	65.467	.50840	2.3351	.48131	.49150	1.4952	2.6344	CCV10
119	CCB10	.00022	.35378	.00025	.00072	-.00008	.00024	.00003	-.00137	CCB10
120	IPL015SB	-.00021	.32811	.00003	-.00066	.02019	.00019	-.00022	-.00067	IPL015SB
121	IPL015SL	.49935	55.128	.48494	.48147	.49459	.50191	.51282	.55271	IPL015SL
122	IPL015SC	.49283	54.937	.49386	.47641	.50301	.50972	.50572	.55032	IPL015SC
123	L076-07A	.51712	56.547	.60852	.48233	.49312	.95277	.72244	92.762*	L076-07A
124	L076-07	-.00001	1.0094	.12516	-.00131	.01781	.49420	.22304	98.645*	L076-07
125	L076-07J	-.00017	.31743	.02377	-.00003	.00314	.09736	.04208	23.990	L076-07J
126	L076-07M	.49937	54.796	.61084	.44443	.47087	1.0395	.70874	98.246*	L076-07M
127	L076-07S	.49697	54.864	.60473	.44103	.46713	1.2442	.74785	99.594*	L076-07S
128	L076-01	-.00028	.78950	.09105	-.00082	.01897	1.0228	.23150	18.038	L076-01
129	L076-02	.00014	.96210	.12217	.00132	.02517	.49588	.21775	78.436*	L076-02
130	CCV11	.52566	65.733	.51163	2.3404	.48070	.49313	1.5020	2.6574	CCV11
131	CCB11	.00006	.19271	.00007	.00021	-.00031	-.00007	-.00019	.00304	CCB11
132	L076-03	-.00001	1.0201	.11377	.00052	.02088	.54502	.19742	58.695*	L076-03
133	L076-04	-.00076	.57740	.08195	-.00098	.02133	.59792	.26211	20.130	L076-04
134	L076-05	-.00062	.61826	.10624	-.00161	.02364	.47890	.23950	39.344*	L076-05
135	L076-06	-.00044	1.1951	.11683	-.00052	.03277	.52939	.34100	38.632*	L076-06
136	CCV12	.52806	65.508	.51200	2.3421	.47900	.49454	1.5046	2.6648	CCV12
137	CCB12	.00012	.17668	-.00001	.00024	-.00015	.00044	-.00032	.00109	CCB12
138	L075-01	-.00032	.64778	.08769	-.00016	.02120	.54061	.28683	56.804*	L075-01
139	L075-02	.00008	.63704	.11483	.00023	.05724	.65978	.19706	87.555*	L075-02
140	L075-03	-.00050	.35726	.07476	.00119	.01799	1.0684	.40148	1.1827	L075-03
141	L075-04	-.00063	.37599	.07962	-.00014	.01647	.76106	.29555	.95973	L075-04
142	L075-05	-.00024	.42498	.12296	.00020	.01730	.74350	.27316	2.4670	L075-05
143	L075-06	-.00035	.44492	.09262	.00059	.01938	.97606	.40244	.90853	L075-06
144	L075-07	-.00044	.32066	.09440	.00057	.01711	.94573	.38377	1.7702	L075-07
145	L075-08	-.00015	.31215	.10422	.00219	.02189	1.0116	.50018	.86269	L075-08
146	CCV13	.52331	65.652	.51036	2.3658	.48320	.49663	1.5030	2.6731	CCV13
147	CCB13	.00006	.11105	-.00014	.00037	-.00037	-.00016	-.00021	.00225	CCB13
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8L008 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/8/10 16:41
End Date: 12/8/10 X 23:20
TH 12/9/10

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments: IEL update for CA
CCV4 Tzn
CCV8, CCV12 ↑Se

Book #: AD8-017
Instrument No.: D8
Analytical Batch: 1D8L009
Analytical Sequence: S 10L6010 (V16)
Method File: 10L6010 (V16)
Database: Pmax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-1601	S30	SM1B14 0203
S1	NA	S31	↓ 0204
S2		ICV	SM1B14 0901
S3		CCV	1402
S4		ICSA	1103
S5		ICSAB	↓ 0303
S6		MLCV	NA
S7		LLCV	↓
S8		CRI/MRL 1,3	SM1B12 8501
S9		2	SM1B14 180
S10			
S11			
S12			
S16			
S17			
S18			
S20	SM1B12-100-05		
S21	SM1B14-0101		
S22	0102		
S23	01-03		
S24	01-04		
S25	↓ 0105		
S26	SM1B12-100-02		
S27	↓ 100-03		
S28	SM1B14-0201		
S29	↓ 0202		

Analyzed By: TH
Date: 12/9/10

SEQUENCE FILE : ID8L009

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8L009001	Blank	16:41	12/08/10	1.000
ID8L009002	S20	16:44	12/08/10	1.000
ID8L009003	S21	16:47	12/08/10	1.000
ID8L009004	S22	16:50	12/08/10	1.000
ID8L009005	S23	16:53	12/08/10	1.000
ID8L009006	S24	16:56	12/08/10	1.000
ID8L009007	S25	16:59	12/08/10	1.000
ID8L009008	S26	17:02	12/08/10	1.000
ID8L009009	S27	17:05	12/08/10	1.000
ID8L009010	S28	17:08	12/08/10	1.000
ID8L009011	S29	17:11	12/08/10	1.000
ID8L009012	S30	17:14	12/08/10	1.000
ID8L009013	S31	17:17	12/08/10	1.000
ID8L009014	ICV	17:20	12/08/10	1.000
ID8L009015	ICB	17:22	12/08/10	1.000
ID8L009016	MRLL081	17:33	12/08/10	1.000
ID8L009017	MRLL082	17:36	12/08/10	1.000
ID8L009018	ICSA1	17:39	12/08/10	1.000
ID8L009019	ICSAB1	17:42	12/08/10	1.000
ID8L009020	CCV1	17:45	12/08/10	1.000
ID8L009021	CCB1	17:48	12/08/10	1.000
ID8L009022	IPK064WB	17:58	12/08/10	1.000
ID8L009023	IPK064WL	18:01	12/08/10	1.000
ID8L009024	IPK064WC	18:04	12/08/10	1.000
ID8L009025	K772-01A	18:06	12/08/10	1.000
ID8L009026	K772-01	18:09	12/08/10	1.000
ID8L009027	K772-01J	18:12	12/08/10	5.000
ID8L009028	ICSA2	18:15	12/08/10	1.000
ID8L009029	ICSAB2	18:18	12/08/10	1.000
ID8L009030	CCV2	18:21	12/08/10	1.000
ID8L009031	CCB2	18:24	12/08/10	1.000
ID8L009032	MRLL083	18:27	12/08/10	1.000
ID8L009033	IPL011WQ	18:29	12/08/10	1.000
ID8L009034	IPL011WX	18:32	12/08/10	1.000
ID8L009035	IPL011WY	18:35	12/08/10	1.000
ID8L009036	L020-03A	18:38	12/08/10	1.000
ID8L009037	L020-03W	18:40	12/08/10	1.000
ID8L009038	L020-03J	18:43	12/08/10	5.000
ID8L009039	L027-01T	18:46	12/08/10	10.00
ID8L009040	L027-06T	18:49	12/08/10	10.00
ID8L009041	CCV3	18:52	12/08/10	1.000
ID8L009042	CCB3	18:55	12/08/10	1.000
ID8L009043	L027-01W	18:57	12/08/10	1.000
ID8L009044	L027-02W	19:01	12/08/10	1.000
ID8L009045	L027-04W	19:04	12/08/10	1.000
ID8L009046	L027-06W	19:06	12/08/10	1.000
ID8L009047	L027-07W	19:10	12/08/10	1.000
ID8L009048	CCV4	19:12	12/08/10	1.000
ID8L009049	CCB4	19:15	12/08/10	1.000
ID8L009050	K574-07A	19:18	12/08/10	5.000
ID8L009051	K574-07T	19:21	12/08/10	5.000
ID8L009052	K574-07J	19:24	12/08/10	25.00
ID8L009053	K574-07G	19:33	12/08/10	5.000
ID8L009054	K574-07H	19:36	12/08/10	5.000

ID8L009055	CCV5	19:39	12/08/10	1.000
ID8L009056	CCB5	19:41	12/08/10	1.000
ID8L009057	L020-04T	19:44	12/08/10	10.00
ID8L009058	L020-05T	19:47	12/08/10	10.00
ID8L009059	L028-02T	19:50	12/08/10	10.00
ID8L009060	L02B-03W	19:53	12/08/10	1.000
ID8L009061	L028-04T	19:56	12/08/10	10.00
ID8L009062	L028-05W	19:58	12/08/10	1.000
ID8L009063	CCV6	20:01	12/08/10	1.000
ID8L009064	CCB6	20:04	12/08/10	1.000
ID8L009065	L076-01A	20:07	12/08/10	1.000
ID8L009066	L076-01W	20:10	12/08/10	1.000
ID8L009067	L076-01J	20:12	12/08/10	5.000
ID8L009068	L028-04W	20:15	12/08/10	1.000
ID8L009069	L075-05	20:18	12/08/10	1.000
ID8L009070	L075-07	20:21	12/08/10	1.000
ID8L009071	CCV7	20:24	12/08/10	1.000
ID8L009072	CCB7	20:27	12/08/10	1.000
ID8L009073	IPL016SB	20:29	12/08/10	1.000
ID8L009074	IPL016SL	20:32	12/08/10	1.000
ID8L009075	IPL016SC	20:35	12/08/10	1.000
ID8L009076	L076-04A	20:38	12/08/10	1.000
ID8L009077	L076-04	20:40	12/08/10	1.000
ID8L009078	L076-04J	20:43	12/08/10	5.000
ID8L009079	L076-04M	20:46	12/08/10	1.000
ID8L009080	L076-04S	20:48	12/08/10	1.000
ID8L009081	L076-01	20:51	12/08/10	1.000
ID8L009082	CCV8	20:54	12/08/10	1.000
ID8L009083	CCB8	20:57	12/08/10	1.000
ID8L009084	IPL012WB	21:00	12/08/10	1.000
ID8L009085	IPL012WL	21:02	12/08/10	1.000
ID8L009086	IPL012WC	21:05	12/08/10	1.000
ID8L009087	L007-03A	21:08	12/08/10	1.000
ID8L009088	L007-03	21:10	12/08/10	1.000
ID8L009089	L007-03J	21:13	12/08/10	5.000
ID8L009090	L007-03M	21:16	12/08/10	1.000
ID8L009091	L007-03S	21:19	12/08/10	1.000
ID8L009092	L007-04	21:22	12/08/10	1.000
ID8L009093	L007-05	21:25	12/08/10	1.000
ID8L009094	CCV9	21:28	12/08/10	1.000
ID8L009095	CCB9	21:30	12/08/10	1.000
ID8L009096	L030-13	21:33	12/08/10	1.000
ID8L009097	L005-03	21:36	12/08/10	1.000
ID8L009098	L005-04	21:39	12/08/10	1.000
ID8L009099	L005-04M	21:42	12/08/10	1.000
ID8L009100	L005-04S	21:44	12/08/10	1.000
ID8L009101	L005-13	21:47	12/08/10	1.000
ID8L009102	L005-14	21:50	12/08/10	1.000
ID8L009103	ICSA2	21:53	12/08/10	1.000
ID8L009104	ICSAB2	21:56	12/08/10	1.000
ID8L009105	CCV10	21:59	12/08/10	1.000
ID8L009106	CCB10	22:01	12/08/10	1.000
ID8L009107	K362-03T	22:04	12/08/10	5.000
ID8L009108	K362-04T	22:07	12/08/10	5.000
ID8L009109	K362-05T	22:10	12/08/10	5.000
ID8L009110	K362-03T	22:13	12/08/10	5.000
ID8L009111	K362-04T	22:17	12/08/10	5.000

ID8L009112	K362-05T	22:20	12/08/10	5.000
ID8L009113	CCV11	22:23	12/08/10	1.000
ID8L009114	CCB11	22:26	12/08/10	1.000
ID8L009115	L003-02T	22:28	12/08/10	5.000
ID8L009116	L003-03T	22:31	12/08/10	5.000
ID8L009117	L003-05T	22:35	12/08/10	5.000
ID8L009118	L003-02T	22:38	12/08/10	5.000
ID8L009119	L003-03T	22:40	12/08/10	5.000
ID8L009120	L003-05T	22:44	12/08/10	5.000
ID8L009121	CCV12	22:47	12/08/10	1.000
ID8L009122	CCB12	22:49	12/08/10	1.000
ID8L009123	IPL017WB	22:52	12/08/10	1.000
ID8L009124	IPL017WL	22:55	12/08/10	1.000
ID8L009125	IPL017WC	22:58	12/08/10	1.000
ID8L009126	L119-02A	23:00	12/08/10	1.000
ID8L009127	L119-02	23:03	12/08/10	1.000
ID8L009128	L119-02J	23:06	12/08/10	5.000
ID8L009129	L119-02M	23:09	12/08/10	1.000
ID8L009130	L119-02S	23:12	12/08/10	1.000
ID8L009131	L119-01	23:14	12/08/10	1.000
ID8L009132	CCV13	23:17	12/08/10	1.000
ID8L009133	CCB13	23:20	12/08/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : ID8L009 DATE : 12/08/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	102	106	101	100	100	105	104	98	95	102	98	96	107	93	95	101	103	104	106	103	104	99	95	100	98	98	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL081	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	101	----	----	----	----	----	----	97	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA81	105	107	108	107	99	103	107	99	96	95	107	95	94	112	97	93	104	103	111	109	112	110	103	91	99	97	98	107
CCV1	108	103	106	100	99	101	105	104	99	95	102	99	96	107	93	95	101	103	104	107	103	105	99	95	100	97	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	101	----	----	----	----	----	----	98	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	103	108	110	106	98	104	107	98	96	94	107	94	94	111	94	93	104	103	110	110	113	110	103	91	100	97	99	107
CCV2	107	102	105	99	99	99	104	104	98	94	101	99	96	105	93	94	100	102	103	106	102	104	98	94	100	97	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL083	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	102	105	99	98	99	104	103	98	94	100	99	95	105	93	93	100	101	103	106	101	104	98	94	100	96	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	106	104	110	99	99	101	103	106	104	91	97	105	95	105	96	95	96	99	104	109	103	105	98	91	100	97	101	111*
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	106	102	107	98	99	98	104	106	100	93	97	101	95	104	96	95	98	101	103	107	101	104	97	93	99	97	99	108
CC85	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	104	108	99	99	99	104	104	99	93	99	100	95	105	94	94	98	101	103	109	101	105	97	93	99	97	98	108
CC86	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	105	105	110	99	99	99	104	105	99	94	99	100	96	104	95	94	99	101	103	110	102	103	97	94	99	97	98	107
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	106	105	110	99	99	100	104	105	100	94	100	100	96	105	95	95	99	101	103	111*	103	104	98	94	98	97	98	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012W8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	104	109	100	100	98	105	104	97	94	99	98	96	106	95	94	100	102	104	109	101	105	98	94	99	98	97	107
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	102	----	----	----	----	----	----	99	----	----	----	95	----	----	96	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	101	109	112	106	99	103	107	98	97	93	105	94	94	111	96	93	102	101	112	112	112	110	103	90	98	97	98	108
CCV10	106	104	109	100	100	99	105	105	99	94	100	99	96	106	96	95	99	101	105	110	103	105	98	94	99	98	98	107
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	105	103	108	101	100	99	105	104	98	94	100	98	96	107	95	95	100	102	105	109	102	106	99	94	98	98	97	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	106	105	110	100	100	100	104	104	100	94	100	99	96	106	95	95	99	101	105	111*	103	105	98	93	97	97	97	106
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	105	103	108	101	100	98	105	104	98	94	99	98	96	106	94	94	100	102	104	109	101	105	99	94	97	97	96	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : I08L009 (SOIL) DATE : 12/08/10 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	26.2	.520	.770	.780	.600	3.53	.170	46.9	.630	.120	.650	5.20	.410	1.000	28.0	1.01	.520	.050	24.4	-.570	.140	25.6	.240	.910	.320	.250	.400	2.01
MRLL081	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.48	-2.63	.920	-.130	10.1	1.68	----	1.17	-.760	1.89	----	1.42	6.72	----	.620	-1.89	-1.24	57.6	.190	.310	78.1	20.9	-2.11	3.00	1.53	-.620	1.94
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	26.4	.510	.140	.180	.320	2.63	.110	30.6	.070	.120	.110	10.6	-.500	1.12	22.3	.510	.300	-.150	7.55	-.110	-.020	21.3	.180	.050	.610	.200	.160	-.550
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	7.36	1.49	.980	-.070	12.8	1.74	----	1.18	-.730	1.84	----	-.320	6.33	----	.660	-1.84	-1.13	61.7	1.62	.070	172	21.2	-2.34	2.44	1.67	-.720	1.31
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	35.5	1.69	.060	.470	.350	3.03	.190	254	.220	.130	.450	14.7	-.790	1.05	42.8	.530	.440	.110	25.7	.240	-.010	38.4	.240	.180	.700	.480	.200	9.68
MRLL083	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	8.89	1.39	-.280	.420	.400	2.89	.170	22.3	.160	.120	.430	.400	-.710	1.59	21.1	.730	.380	-.130	21.6	-.220	.060	63.8	.170	.120	-.050	.110	.170	1.71
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	38.8	1.44	.530	1.30	1.02	5.05	.710	52.9	1.02	.320	.960	12.0	.230	1.13	72.1	2.31	1.03	.770	59.3	.360	.340	245	.390	1.03	.240	.300	.570	1.000
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.9	1.07	.250	.730	.520	2.62	.290	15.9	.470	.210	.500	3.31	-.170	.910	22.2	.770	.500	.320	-1.29	.010	.110	78.2	.160	.930	.480	.180	.180	.490
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	22.3	.620	.770	.740	.650	3.82	.380	24.6	.870	.200	.600	7.29	.190	1.64	39.5	.980	.550	.230	67.9	.050	.140	283	.310	.990	.140	.100	.350	.070
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	3.50	.770	-.570	.230	.140	2.03	.050	2.16	.020	.030	.330	4.17	-.400	1.51	15.3	.400	.260	-.210	4.91	-.480	.050	70.4	.130	-.010	.250	.200	.010	.290
IPL016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	1.73	.840	-.140	-.020	.100	2.22	.030	-5.65	-.170	.090	.230	.780	-.360	.360	5.55	.130	.240	-.210	12.4	-.630	.040	34.4	.090	.330	.330	.020	-.180	.810
IPL012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	26.3	1.92	.450	.610	.530	2.95	.370	30.4	.560	.240	.880	4.34	.050	1.82	27.8	.900	.700	.240	67.6	-1.12	.220	111	.460	.290	.460	.340	.360	1.02
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	8.74	-2.04	1.38	.040	9.83	-.460	----	1.39	-.520	2.03	----	1.02	7.52	----	.970	-1.45	-.920	83.8	.470	.330	211	21.6	-1.59	1.83	1.94	-.540	.550
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	39.3	1.10	-1.10	.450	.390	2.11	.160	54.2	.220	.010	.420	14.9	-.040	1.40	42.1	.630	.320	-.020	82.6	-.090	.100	69.5	.190	.310	.430	-.380	.140	.210
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	22.5	1.66	-.500	.650	.490	1.81	.240	14.4	2.19	.140	.580	5.83	.220	1.39	28.1	.670	.620	-.010	69.6	.700	-.010	113	.210	.390	.180	.310	.180	.180
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	25.2	1.25	-.030	.650	.520	2.09	.290	17.5	1.67	.140	.650	3.42	-.080	1.42	38.5	.770	.610	.130	60.5	-.370	.000	137	.200	.480	.270	.250	.300	.310
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	23.5	1.89	.270	.700	.540	2.54	.300	19.8	.540	.280	.730	3.27	-.100	1.28	30.3	.830	.590	.110	65.0	-.160	.080	114	.260	.520	.190	.250	.370	.410

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L009001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L009002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L009003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L009004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L009005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L009006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L009007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L009008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L009009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L009010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L009011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L009012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L009013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8L009014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L009015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL081		ID8L009016			1	☒	MRL-EMAX	None
17	4	2	4	1	Unk	MRLL082		ID8L009017			1	☒	unk	---
18	5	2	5	1	QC	ICSA1		ID8L009018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L009019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L009020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L009021			1	☒	3XIDL	None
22	53	2	5	5	QC	IPK064WB		ID8L009022			1	☒	1/2LOQ	None
23	54	2	6	5	QC	IPK064WL		ID8L009023			1	☒	LCS	None
24	55	2	7	5	QC	IPK064WC		ID8L009024			1	☒	LCS-200.7	None
25	56	2	8	5	Unk	K772-01A		ID8L009025			1	☒	unk	---
26	57	2	9	5	Unk	K772-01		ID8L009026			1	☒	unk	---
27	58	2	10	5	Unk	K772-01J		ID8L009027			1	☒	unk	---
28	59	2	11	5	QC	ICSA2		ID8L009028			1	☒	ICSA	None
29	60	2	12	5	QC	ICSAB2		ID8L009029			1	☒	ICSAB	None
30	61	3	1	1	QC	CCV2		ID8L009030			1	☒	CCV	None
31	62	3	2	1	QC	CCB2		ID8L009031			1	☒	3XIDL	None
32	102	3	6	4	QC	MRLL083		ID8L009032			1	☒	MRL-EMAX	None
33	103	3	7	4	QC	IPL011WQ		ID8L009033			1	☒	1/2LOQ	None
34	104	3	8	4	QC	IPL011WX		ID8L009034			1	☒	LCS	None
35	105	3	9	4	QC	IPL011WY		ID8L009035			1	☒	LCS	None
36	9	2	9	1	Unk	L020-03A	TOT	ID8L009036			1	☒	unk	---
37	10	2	10	1	Unk	L020-03W	TOT	ID8L009037			1	☒	unk	---
38	11	2	11	1	Unk	L020-03J	TOT	ID8L009038			1	☒	unk	---
39	13	2	1	2	Unk	L027-01T	10X	ID8L009039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
40	15	2	3	2	Unk	L027-06T	10X	ID8L009040			1	☒	unk	—
41	106	3	10	4	QC	CCV3		ID8L009041			1	☒	CCV	None
42	107	3	11	4	QC	CCB3		ID8L009042			1	☒	3XIDL	None
43	12	2	12	1	Unk	L027-01W		ID8L009043			1	☒	unk	—
44	14	2	2	2	Unk	L027-02W		ID8L009044			1	☒	unk	—
45	108	3	12	4	Unk	L027-04W		ID8L009045			1	☒	unk	—
46	109	3	1	5	Unk	L027-06W		ID8L009046			1	☒	unk	—
47	16	2	4	2	Unk	L027-07W		ID8L009047			1	☒	unk	—
48	17	2	5	2	QC	CCV4		ID8L009048			1	☒	CCV	None
49	18	2	6	2	QC	CCB4		ID8L009049			1	☒	3XIDL	None
50	19	2	7	2	Unk	K574-07A	5X TCLP	ID8L009050			1	☒	unk	—
51	20	2	8	2	Unk	K574-07T	5X TCLP	ID8L009051			1	☒	unk	—
52	21	2	9	2	Unk	K574-07J	25X TCLP	ID8L009052			1	☒	unk	—
53	22	2	10	2	Unk	K574-07G	5X TCLP	ID8L009053			1	☒	unk	—
54	23	2	11	2	Unk	K574-07H	5X TCLP	ID8L009054			1	☒	unk	—
55	24	2	12	2	QC	CCV5		ID8L009055			1	☒	CCV	None
56	25	2	1	3	QC	CCB5		ID8L009056			1	☒	3XIDL	None
57	26	2	2	3	Unk	L020-04T	10X TOT	ID8L009057			1	☒	unk	—
58	27	2	3	3	Unk	L020-05T	10X TOT	ID8L009058			1	☒	unk	—
59	28	2	4	3	Unk	L028-02T	10X TOT	ID8L009059			1	☒	unk	—
60	29	2	5	3	Unk	L028-03W	TOT	ID8L009060			1	☒	unk	—
61	30	2	6	3	Unk	L028-04T	10X TOT	ID8L009061			1	☒	unk	—
62	31	2	7	3	Unk	L028-05W	TOT	ID8L009062			1	☒	unk	—
63	32	2	8	3	QC	CCV6		ID8L009063			1	☒	CCV	None
64	33	2	9	3	QC	CCB6		ID8L009064			1	☒	3XIDL	None
65	34	2	10	3	Unk	L076-01A	XRF	ID8L009065			1	☒	unk	—
66	35	2	11	3	Unk	L076-01W	XRF	ID8L009066			1	☒	unk	—
67	36	2	12	3	Unk	L076-01J	XRF	ID8L009067			1	☒	unk	—
68	37	2	1	4	Unk	L028-04W	DISS	ID8L009068			1	☒	unk	—
69	38	2	2	4	Unk	L075-05	dried & sieved	ID8L009069			1	☒	unk	—
70	39	2	3	4	Unk	L075-07	dried & sieved	ID8L009070			1	☒	unk	—
71	40	2	4	4	QC	CCV7		ID8L009071			1	☒	CCV	None
72	41	2	5	4	QC	CCB7		ID8L009072			1	☒	3XIDL	None
73	42	2	6	4	QC	IPL016SB		ID8L009073			1	☒	1/2LOQ	None
74	43	2	7	4	QC	IPL016SL		ID8L009074			1	☒	LCS	None
75	44	2	8	4	QC	IPL016SC		ID8L009075			1	☒	LCS	None
76	45	2	9	4	Unk	L076-04A	dried & sieved	ID8L009076			1	☒	unk	—
77	46	2	10	4	Unk	L076-04	dried & sieved	ID8L009077			1	☒	unk	—
78	47	2	11	4	Unk	L076-04J	dried & sieved	ID8L009078			1	☒	unk	—

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	48	2	12	4	Unk	L076-04M	dried & sieved	ID8L009079			1	☒	unk	---
80	49	2	1	5	Unk	L076-04S	dried & sieved	ID8L009080			1	☒	unk	---
81	50	2	2	5	Unk	L076-01	dried & sieved	ID8L009081			1	☒	unk	---
82	51	2	3	5	QC	CCV8	↑Se	ID8L009082			1	☒	CCV	None
83	52	2	4	5	QC	CCB8		ID8L009083			1	☒	3XIDL	None
84	63	3	3	1	QC	IPL012WB		ID8L009084			1	☒	1/2LOQ	None
85	64	3	4	1	QC	IPL012WL		ID8L009085			1	☒	LCS	None
86	65	3	5	1	QC	IPL012WC		ID8L009086			1	☒	LCS	None
87	66	3	6	1	Unk	L007-03A		ID8L009087			1	☒	unk	---
88	67	3	7	1	Unk	L007-03		ID8L009088			1	☒	unk	---
89	68	3	8	1	Unk	L007-03J		ID8L009089			1	☒	unk	---
90	69	3	9	1	Unk	L007-03M		ID8L009090			1	☒	unk	---
91	70	3	10	1	Unk	L007-03S		ID8L009091			1	☒	unk	---
92	71	3	11	1	Unk	L007-04		ID8L009092			1	☒	unk	---
93	72	3	12	1	Unk	L007-05		ID8L009093			1	☒	unk	---
94	73	3	1	2	QC	CCV9		ID8L009094			1	☒	CCV	None
95	74	3	2	2	QC	CCB9		ID8L009095			1	☒	3XIDL	None
96	75	3	3	2	Unk	L030-13		ID8L009096			1	☒	unk	---
97	76	3	4	2	Unk	L005-03		ID8L009097			1	☒	unk	---
98	77	3	5	2	Unk	L005-04		ID8L009098			1	☒	unk	---
99	78	3	6	2	Unk	L005-04M		ID8L009099			1	☒	unk	---
100	79	3	7	2	Unk	L005-04S		ID8L009100			1	☒	unk	---
101	80	3	8	2	Unk	L005-13		ID8L009101			1	☒	unk	---
102	81	3	9	2	Unk	L005-14		ID8L009102			1	☒	unk	---
103	82	3	10	2	QC	ICSA2		ID8L009103			1	☒	ICSA	None
104	83	3	11	2	QC	ICSAB2		ID8L009104			1	☒	ICSAB	None
105	84	3	12	2	QC	CCV10		ID8L009105			1	☒	CCV	None
106	85	3	1	3	QC	CCB10		ID8L009106			1	☒	3XIDL	None
107	86	3	2	3	Unk	K362-03T	5X TOT	ID8L009107			1	☒	unk	---
108	87	3	3	3	Unk	K362-04T	5X TOT	ID8L009108			1	☒	unk	---
109	88	3	4	3	Unk	K362-05T	5X TOT	ID8L009109			1	☒	unk	---
110	89	3	5	3	Unk	K362-03T	5X DISS	ID8L009110			1	☒	unk	---
111	90	3	6	3	Unk	K362-04T	5X DISS	ID8L009111			1	☒	unk	---
112	91	3	7	3	Unk	K362-05T	5X DISS	ID8L009112			1	☒	unk	---
113	92	3	8	3	QC	CCV11		ID8L009113			1	☒	CCV	None
114	93	3	9	3	QC	CCB11		ID8L009114			1	☒	3XIDL	None
115	94	3	10	3	Unk	L003-02T	5X TOT	ID8L009115			1	☒	unk	---
116	95	3	11	3	Unk	L003-03T	5X TOT	ID8L009116			1	☒	unk	---
117	96	3	12	3	Unk	L003-05T	5X TOT	ID8L009117			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	97	3	1	4	Unk	L003-02T	5X DISS	ID8L009118			1	☒	unk	---
119	98	3	2	4	Unk	L003-03T	5X DISS	ID8L009119			1	☒	unk	---
120	99	3	3	4	Unk	L003-05T	5X DISS	ID8L009120			1	☒	unk	---
121	100	3	4	4	QC	CCV12	Ke	ID8L009121			1	☒	CCV	None
122	101	3	5	4	QC	CCB12		ID8L009122			1	☒	3XIDL	None
123	110	3	2	5	QC	IPL017WB		ID8L009123			1	☒	1/2LOQ	None
124	111	3	3	5	QC	IPL017WL		ID8L009124			1	☒	LCS	None
125	112	3	4	5	QC	IPL017WC		ID8L009125			1	☒	LCS	None
126	113	3	5	5	Unk	L119-02A		ID8L009126			1	☒	unk	---
127	114	3	6	5	Unk	L119-02		ID8L009127			1	☒	unk	---
128	115	3	7	5	Unk	L119-02J		ID8L009128			1	☒	unk	---
129	116	3	8	5	Unk	L119-02M		ID8L009129			1	☒	unk	---
130	117	3	9	5	Unk	L119-02S		ID8L009130			1	☒	unk	---
131	118	3	10	5	Unk	L119-01		ID8L009131			1	☒	unk	---
132	119	3	11	5	QC	CCV13		ID8L009132			1	☒	CCV	None
133	120	3	12	5	QC	CCB13		ID8L009133			1	☒	3XIDL	None

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ID8L009 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00147	.00002	-.00001	.00030	.00015	.00087	-.00031	.00071	.00005	-.00085	Blank
2	S20					.90920		2.7232				S20
3	S21					8.6736		24.934				S21
4	S22				.49513						.15938	S22
5	S23				4.8724						1.6534	S23
6	S24						.10459					S24
7	S25						1.0672					S25
8	S26	.27349							.87664	.15078		S26
9	S27	9.9265							8.0892	1.4327		S27
10	S28		.00564									S28
11	S29		.05511									S29
12	S30			.00142								S30
13	S31			.00571								S31
14	ICV	107.25	1.5332	1.0576	2.0156	1.4959	2.4904	2.0935	77.964	2.4603	.95416	ICV
15	ICB	.02622	.00052	.00077	.00078	.00060	.00353	.00017	.04685	.00063	.00012	ICB
16	MRLL081	.22115	.10385	.01045	.01025	.01009	.00377*	.01040	9.5739*	.01028	.00939	MRLL081
17	MRLL082	-.00808	.00009	.00084	-.00027	-.00006	-.00179	-.00012	-.00216	.00004	-.00001	MRLL082
18	ICSA1	405.63	.00748	-.00263	.00092	-.00013	.01013	.00168	485.75	.00117	-.00076	ICSA1
19	ICSAB1	419.59	1.0690	1.0846	.53262	.49315	.51305	1.0692	495.78	.48004	.47354	ICSAB1
20	CCV1	108.12	1.5435	1.0603	2.0049	1.4890	2.5166	2.0904	77.776	2.4795	.95437	CCV1
21	CCB1	.02644	.00051	.00014	.00018	.00032	.00263	.00011	.03059	.00007	.00012	CCB1
22	IPK064WB	.00449	-.00041	.00088	.00018	-.00003	-.00113	-.00006	.08928	-.00013	.00004	IPK064WB
23	IPK064WL	5.7514	2.6355	.54242	.49904	.50506	.51323	.53625	52.112	.49599	.47756	IPK064WL
24	IPK064WC	5.8734*	2.6838	.55020	.50540	.50608	.52115	.54163	52.779	.50836	.48365	IPK064WC
25	K772-01A	6.0790	2.6831	.57835	.54731	.49353	.92276	.54005	141.75	.50183	.48239	K772-01A
26	K772-01	.02781	.00360	.00004	.05364	-.00005	.47646	.00022	110.73	.00052	.00002	K772-01
27	K772-01J	.00001	.00273	.00048	.00918	.00020	.07467	.00011	19.432	.00017	.00012	K772-01J
28	ICSA2	402.50	.00736	.00149	.00098	-.00007	.01278	.00174	490.48	.00118	-.00073	ICSA2
29	ICSAB2	410.63	1.0805	1.1004	.53163	.49232	.51969	1.0716	488.29	.48242	.47167	ICSAB2
30	CCV2	107.07	1.5344	1.0520	1.9810	1.4794	2.4846	2.0794	77.670	2.4490	.94488	CCV2
31	CCB2	.03546	.00169	.00006	.00047	.00035	.00303	.00019	.25407	.00022	.00013	CCB2
32	MRLL083	.22719	.10417	.01029	.01078	.01064	.00511*	.01098	1.1720	.01082	.00989	MRLL083
33	IPL011WQ	.01802	.00091	-.00088	.00005	.00001	-.00207	-.00010	.07911	-.00012	.00008	IPL011WQ
34	IPL011WX	5.7778	2.6447	.54374	.49784	.50587	.51800	.53609	52.847	.50905	.47944	IPL011WX
35	IPL011WY	5.7905	2.6647	.54891	.50259	.50630	.51664	.54107	52.744	.50927	.48184	IPL011WY
36	L020-03A	6.1588	2.6536	.57918	.51250	.49906	1.1110	.54523	64.745	.67367	.49056	L020-03A
37	L020-03W	.12481	-.00022	.01044	.00793	-.00008	.62043	-.00005	14.490	.18387	-.00001	L020-03W
38	L020-03J	.02141	.00180	.00173	.00157	.00004	.11795	-.00006	2.9125	.03605	-.00003	L020-03J
39	L027-01T	.00115	.00156	.00100	.05960	-.00003	.05932	-.00021	23.419	.00056	.00407	L027-01T
40	L027-06T	-.00373	.00054	.00159	.09144	-.00007	.08262	-.00021	19.694	.00020	.00027	L027-06T
41	CCV3	107.25	1.5328	1.0504	1.9862	1.4755	2.4636	2.0724	77.269	2.4378	.93917	CCV3
42	CCB3	.00889	.00139	-.00028	.00042	.00040	.00289	.00017	.02233	.00016	.00012	CCB3
43	L027-01W	.04275	.00272	.01670	.62064	-.00008	.63378	.00167	222.33	.00573	.03996	L027-01W
44	L027-02W	.00957	-.00075	.00041	.00035	.00000	-.00367	-.00006	.07533	.00003	.00010	L027-02W
45	L027-04W	.01413	.00024	-.00302	.22979	-.00006	.22068	.00012	56.606	.00065	-.00061	L027-04W
46	L027-06W	.02045	.00087	.01555	.92911	-.00007	.88952	.00002	191.30	.00297	.00297	L027-06W
47	L027-07W	-.00566	-.00087	.00017	.00036	-.00007	-.00433	-.00011	-.00713	-.00025	-.00004	L027-07W
48	CCV4	105.67	1.5543	1.0987	1.9837	1.4912	2.5151	2.0681	79.505	2.6098	.91453	CCV4
49	CCB4	.03881	.00144	.00053	.00130	.00102	.00505	.00071	.05295	.00102	.00032	CCB4
50	K574-07A	5.4233	2.5221	.58636	.48863	.51103	.49763	.54339	54.601	.53782	.47522	K574-07A
51	K574-07T	.06399	.00646	.00169	.01674	.01411	.00930	.00110	1.7233	.00733	.00118	K574-07T
52	K574-07J	.00028	.00217	.00017	.00108	.00041	.00062	.00012	.07302	.00014	.00020	K574-07J
53	K574-07G	1.0683	.50563	.11422	.10628	.10443	.10123	.10887	11.276	.10582	.09615	K574-07G
54	K574-07H	1.0584	.49748	.11336	.10585	.10349	.09993	.10797	11.162	.10484	.09541	K574-07H

55	CCV5	105.68	1.5288	1.0666	1.9679	1.4896	2.4581	2.0735	79.815	2.5015	.92729	CCV5
56	CCB5	.01593	.00107	.00025	.00073	.00052	.00262	.00029	.01586	.00047	.00021	CCB5
57	L020-04T	.01007	-.01281	.00089	.00243	.00004	.08177	.00003	3.5553	1.5605	.00027	L020-04T
58	L020-05T	.01771	-.00932	.00065	.00340	.00003	.08410	-.00005	6.3820	1.1433	.00013	L020-05T
59	L028-02T	.01221	-.02123	.00115	.00397	-.00002	.06904	-.00005	7.4052	2.4576	.00028	L028-02T
60	L028-03W	.17520	.00294	.04475	.03504	-.00004	.79075	-.00044	119.69	.11308	.04066	L028-03W
61	L028-04T	-.00231	-.00864	.00151	.00284	-.00005	.06314	-.00007	5.2956	1.1749	.00000	L028-04T
62	L028-05W	.14986	-.05339	.01285	.00722	-.00010	1.0051	-.00003	56.421	5.9459	.00082	L028-05W
63	CCV6	106.10	1.5570	1.0830	1.9890	1.4833	2.4710	2.0754	78.207	2.4829	.92889	CCV6
64	CCB6	.02232	.00062	.00077	.00074	.00065	.00382	.00038	.02463	.00087	.00020	CCB6
65	L076-01A	99.288	2.5176	.60416	1.4032	.51366	.57035	.63521	93.115	.63759	.52635	L076-01A
66	L076-01W	92.935	.00952	.06185	.91388	.00662	.09531	.09259	42.565	.12652	.03482	L076-01W
67	L076-01J	18.695	.00152	.01156	.17959	.00112	.01827	.01732	8.5111	.02469	.00653	L076-01J
68	L028-04W	.03506	-.14966*	.00667	.02564	-.00009	.68353	.00009	54.836	16.386*	.00114	L028-04W
69	L075-05	83.299	.01259	.09987	1.1990	.00759	.03728	.02659	103.05	.19287	.06207	L075-05
70	L075-07	88.226	.01225	.09307	1.0394	.00682	.03955	.00895	22.285	.25806	.07730	L075-07
71	CCV7	104.93	1.5781	1.0972	1.9710	1.4826	2.4678	2.0870	78.807	2.4707	.93525	CCV7
72	CCB7	.00350	.00077	-.00057	.00023	.00014	.00203	.00005	.00216	.00002	.00003	CCB7
73	IPL016SB	.02318	.00153	-.00115	.00048	.00019	.00031	.00002	.02152	.00032	.00005	IPL016SB
74	IPL016SL	5.2167	2.5762	.53670	.49729	.50338	.45901	.55092	54.416	.51139	.49114	IPL016SL
75	IPL016SC	5.3356	2.6083	.54961	.50531	.51370	.46787	.55990	53.782	.52092	.49836	IPL016SC
76	L076-04A	80.961	2.5433	.60584	1.5782	.50574	.48541	.70180	102.98	.61935	.56977	L076-04A
77	L076-04	75.729	.01285	.06546	1.1201	.00696	.02222	.16293	53.780	.12001	.08059	L076-04
78	L076-04J	15.337	.00223	.01288	.21594	.00134	.00329	.02988	10.633	.02349	.01507	L076-04J
79	L076-04M	120.69	2.4767	.59895	1.6616	.49744	.45351	.69460	105.77	.64126	.56356	L076-04M
80	L076-04S	109.30	2.4478	.59756	1.6412	.49825	.43237	.69817	105.66	.63239	.56345	L076-04S
81	L076-01	74.819	.01337	.07522	1.0912	.00640	.02383	.12073	52.405	.12163	.04272	L076-01
82	CCV8	105.80	1.5799	1.1041*	1.9848	1.4884	2.4963	2.0897	78.799	2.5030	.93654	CCV8
83	CCB8	.00173	.00084	-.00014	-.00002	.00010	.00222	.00003	-.00565	-.00017	.00009	CCB8
84	IPL012WB	.01930	.00016	-.00004	.00003	-.00002	-.00158	-.00007	.01726	-.00021	.00020	IPL012WB
85	IPL012WL	5.6442	2.7104	.56429	.49325	.50486	.50546	.53296	52.981	.50702	.46892	IPL012WL
86	IPL012WC	5.7105	2.7227	.57107	.49976	.50634	.51072	.53495	52.895	.51042	.47398	IPL012WC
87	L007-03A	6.7122	2.7667	.60162	.58859	.50556	.82789	.54872	143.66	.52290	.48518	L007-03A
88	L007-03	.79417	.00118	.00154	.08228	.00015	.30579	.00017	96.864	.01196	.00123	L007-03
89	L007-03J	.14822	.00187	-.00028	.01651	.00020	.05699	.00003	19.677	.00255	.00022	L007-03J
90	L007-03M	6.6077	2.7899	.59076	.58689	.50226	.84391	.54287	147.66	.51941	.47705	L007-03M
91	L007-03S	6.6297	2.7540	.58214	.59019	.50299	.84082	.54228	147.16	.51607	.47722	L007-03S
92	L007-04	.00862	.00073	.00185	.04591	-.00005	.08470	.00002	45.817	.00422	-.00008	L007-04
93	L007-05	.00178	-.00006	.00444	.04108	-.00006	.01336	-.00002	22.764	.00285	-.00008	L007-05
94	CCV9	105.34	1.5630	1.0889	2.0039	1.4928	2.4578	2.0970	78.151	2.4369	.93922	CCV9
95	CCB9	.02632	.00192	.00045	.00061	.00053	.00295	.00037	.03036	.00056	.00024	CCB9
96	L030-13	.05442	-.00044	.00181	.38691	.00008	.32840	.00075	146.94	.00296	.00013	L030-13
97	L005-03	.00791	-.00052	.00247	.36497	-.00007	.09185	.00005	140.58	.00180	.00034	L005-03
98	L005-04	.00884	-.00044	.00109	.25217	.00000	.03999	.00010	88.986	.00061	.00010	L005-04
99	L005-04M	5.9469	2.7667	.58539	.76459	.51641	.56871	.54983	140.92	.51739	.48347	L005-04M
100	L005-04S	5.8813	2.7484	.57984	.75619	.50937	.57056	.54187	139.57	.51653	.47716	L005-04S
101	L005-13	.14772	.00278	.01615	.19383	-.00005	.02382	.00041	26.014	.00115	.00025	L005-13
102	L005-14	.04125	-.00023	.00105	.59600	-.00004	.05811	.00016	107.35	.00243	.00000	L005-14
103	ICSA2	407.62	.00874	-.00204	.00138	.00004	.00983	-.00046	495.95	.00139	-.00052	ICSA2
104	ICSAB2	403.72	1.0874	1.1247	.53187	.49437	.51386	1.0670	491.85	.48472	.46450	ICSAB2
105	CCV10	106.44	1.5610	1.0884	2.0044	1.4971	2.4852	2.0915	79.006	2.4807	.93908	CCV10
106	CCB10	.03932	.00110	-.00110	.00045	.00039	.00211	.00016	.05419	.00022	.00001	CCB10
107	K362-03T	.03786	-.20661*	.00418	.00700	-.00015	.18688	.00002	16.673	22.494*	.00183	K362-03T
108	K362-04T	.05341	-.21247*	.00497	.01197	-.00016	.20396	-.00007	13.546	23.100*	.00175	K362-04T
109	K362-05T	.11224	-.13378*	.00392	.00779	-.00011	.17131	-.00006	13.712	14.500*	.00133	K362-05T
110	K362-03T	.00459	-.20179*	.00497	.00621	-.00012	.18102	.00003	16.396	21.962*	.00177	K362-03T
111	K362-04T	.00282	-.21546*	.00541	.01125	-.00017	.19893	-.00004	13.491	23.232*	.00175	K362-04T

112	K362-05T	.00262	-.13328*	.00447	.00670	-.00010	.16727	.00000	12.104	14.241*	.00107	K362-05T
113	CCV11	105.38	1.5486	1.0813	2.0189	1.4986	2.4630	2.0963	78.283	2.4547	.94175	CCV11
114	CCB11	.02253	.00166	-.00050	.00065	.00049	.00181	.00024	.01436	.00219	.00014	CCB11
115	L003-02T	.03783	-.04186	.00288	.00099	-.00004	.18716	-.00004	6.7929	4.6212	.00033	L003-02T
116	L003-03T	.02474	-.24615*	.00519	.00638	-.00015	.21329	.00001	10.919	26.465*	.00213	L003-03T
117	L003-05T	.04505	-.03488	.00041	.00779	-.00002	.14045	-.00006	12.812	3.8434	.00035	L003-05T
118	L003-02T	.00281	-.04216	.00150	.00010	-.00004	.18305	-.00007	6.4416	4.6503	.00042	L003-02T
119	L003-03T	-.00044	-.22826*	.00545	.00588	-.00014	.20029	.00004	9.9032	24.701*	.00192	L003-03T
120	L003-05T	-.00023	-.03698	.00106	.00708	-.00003	.14289	-.00004	13.099	4.1154	.00032	L003-05T
121	CCV12	105.76	1.5691	1.1002*	2.0032	1.4930	2.4934	2.0896	78.318	2.4939	.93709	CCV12
122	CCB12	.02524	.00125	-.00003	.00065	.00052	.00209	.00029	.01751	.00167	.00014	CCB12
123	IPL017WB	.01967	-.00041	-.00042	.00020	.00001	.00257	.00000	.00279	.00020	.00013	IPL017WB
124	IPL017WL	6.1782*	2.8452	.61034*	.53716	.55444	.56842	.56942	56.412	.54180	.49823	IPL017WL
125	IPL017WC	6.3446*	2.7694	.63120*	.54134	.55753	.59624	.54584	54.403	.57144	.47326	IPL017WC
126	L119-02A	6.2541	2.6882	.61326	.51919	.52107	.67767	.54844	68.912	.51636	.48175	L119-02A
127	L119-02	.37552	.00075	.01613	.00242	.00014	.15217	.00002	18.102	.00033	.00063	L119-02
128	L119-02J	.06599	.00076	.00314	.00061	.00011	.02598	-.00004	3.5651	.00030	.00026	L119-02J
129	L119-02M	6.1402	2.7581	.59349	.51049	.51643	.67786	.54439	70.245	.50216	.47395	L119-02M
130	L119-02S	6.3704	2.8684	.61804	.52930	.53554	.70247	.56667	72.877	.52003	.49457	L119-02S
131	L119-01	.75758	-.02058	5.6996	.08347	.00000	.34661	.00004	23.363	.00055	.00019	L119-01
132	CCV13	105.04	1.5440	1.0793	2.0158	1.4972	2.4480	2.1007	77.717	2.4392	.93710	CCV13
133	CCB13	.02346	.00189	.00027	.00070	.00054	.00254	.00030	.01978	.00054	.00028	CCB13
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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ID8L009 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00144	.00003	.00014	-.00012	.00000	.00004	.00006	-.00027	.00040	.00000	Blank
2	S20			.19840			.11890					S20
3	S21			1.9342			1.1444					S21
4	S22	.36457	.06312									S22
5	S23	3.5545	2.4122									S23
6	S24							.74980				S24
7	S25							7.4544				S25
8	S26								.78074	.33647		S26
9	S27								7.2261	3.2774		S27
10	S28					.11020						S28
11	S29					.45176						S29
12	S30				.02829						.00157	S30
13	S31				.14038						.00625	S31
14	ICV	2.5466	24.615	2.4001	.53369	56.001	2.3720	2.5265	2.5676	62.111	1.0642	ICV
15	ICB	.00065	.00520	.00041	.00100	.02796	.00101	.00052	.00005	.02442	-.00057	ICB
16	MRLL081	.01033	.21332	.00956	.01138	.98151	.01081	.01040	.01060	1.0177	.01000	MRLL081
17	MRLL082	.00005	-.00219	-.00060	.00112	.00017	-.00013	-.00005	-.00017	-.05532	.00010	MRLL082
18	ICSA1	.00189	186.58	.00142	.00672	187.15	.00062	-.00189	-.00124	.05763	.00019	ICSA1
19	ICSAB1	.53528	190.60	.94307	1.1164	194.29	.46336	1.0395	1.0298	83.271	1.0922	ICSAB1
20	CCV1	2.5611	24.819	2.3963	.53271	55.760	2.3658	2.5200	2.5685	62.187	1.0735	CCV1
21	CCB1	.00011	.01063	-.00050	.00112	.02231	.00051	.00030	-.00015	.00755	-.00011	CCB1
22	IPK064WB	.00056	.01834	-.00050	.00086	.01116	.00012	.00000	-.00006	-.07460	-.00051	IPK064WB
23	IPK064WL	.50928	5.2296	.50302	.00141*	47.399	.48500	.50834	.52903	52.341	.54160	IPK064WL
24	IPK064WC	.51970	5.3275	.50699	.00095*	47.813	.49281	.51267	.53488	53.279	.55026	IPK064WC
25	K772-01A	.53188	5.2448	.51735	.00871	83.542	.50672	.50466	.53090	71.671	.58271	K772-01A
26	K772-01	.00645	-.00048	.01870	.00968	43.259	.02354	.00524	.00254	21.327	-.00037	K772-01
27	K772-01J	.00122	-.00033	.00245	.00229	7.3992	.00420	.00091	.00035	3.3591	-.00072	K772-01J
28	ICSA2	.00184	186.81	-.00032	.00633	187.61	.00066	-.00184	-.00113	.06167	.00162	ICSA2
29	ICSAB2	.53489	187.78	.94362	1.1111	188.59	.46263	1.0412	1.0275	82.754	1.0961	ICSAB2
30	CCV2	2.5174	24.720	2.3891	.52721	55.608	2.3415	2.5103	2.5489	61.857	1.0585	CCV2
31	CCB2	.00045	.01469	-.00079	.00105	.04285	.00053	.00044	.00011	.02570	.00024	CCB2
32	MRLL083	.01078	.22211	.01012	.01194	.98186	.01089	.01062	.01107	1.0109	.01137	MRLL083
33	IPL011WQ	.00015	.00555	-.00068	.00121	.03569	.00013	.00002	-.00015	-.03340	-.00034	IPL011WQ
34	IPL011WX	.51121	5.3014	.49996	.00141*	47.968	.48674	.51161	.52979	52.779	.53829	IPL011WX
35	IPL011WY	.51308	5.3489	.50557	.00115*	47.841	.48887	.51482	.53348	53.188	.54247	IPL011WY
36	L020-03A	.53363	5.3603	.51406	.01032	54.456	.50130	.54640	.54002	65.185	.56072	L020-03A
37	L020-03W	.00248	.14978	.01107	.01007	8.1873	.01243	.03590	.00181	11.737	.00008	L020-03W
38	L020-03J	.00078	.03100	.00210	.00278	1.6278	.00246	.00700	.00010	2.1769	.00008	L020-03J
39	L027-01T	.00056	6.0528	.00297	.00411	49.334	2.7874	-.00031	.00610	5.5140	-.00057	L027-01T
40	L027-06T	.00025	3.1265	.00217	.00257	37.571	1.1117	-.00020	.00033	2.9012	-.00041	L027-06T
41	CCV3	2.5009	24.658	2.3826	.52689	55.522	2.3333	2.4943	2.5326	61.758	1.0573	CCV3
42	CCB3	.00043	.00040	-.00071	.00159	.02112	.00073	.00038	-.00013	.02156	-.00022	CCB3
43	L027-01W	.00270	58.020	.03811	.03639	510.60	26.656	-.00190	.06349	66.285	.00023	L027-01W
44	L027-02W	.00042	.02220	-.00048	.00108	.15866	.00896	.00005	.00046	.30232	.00026	L027-02W
45	L027-04W	.00127	.06250	.04414	.00233	184.64	1.1784	-.00037	.00247	7.3824	-.00009	L027-04W
46	L027-06W	.00140	30.825	.03018	.02240	401.90	10.858	-.00131	.00807	33.462	-.00113	L027-06W
47	L027-07W	.00008	.00120	-.00073	.00036	.03896	.00100	-.00006	.00038	.22861	-.00067	L027-07W
48	CCV4	2.4187	26.375	2.3755	.52480	57.459	2.3756	2.3910	2.4842	62.547	1.0865	CCV4
49	CCB4	.00096	.01201	.00023	.00113	.07212	.00231	.00103	.00077	.05927	.00036	CCB4
50	K574-07A	.48106	5.5504	.49874	.00159	50.251	.50450	.49209	.52642	51.767	.62188	K574-07A
51	K574-07T	.00616	.08037	.00096	.00081	1.4812	.01463	.00120	.00108	1.2930	.00621	K574-07T
52	K574-07J	.00006	.00301	.00030	.00090	.05292	.00075	.00023	-.00007	.01480	.00121	K574-07J
53	K574-07G	.09805	1.0953	.10036	.00103	10.010	.10202	.10141	.10704	10.239	.12807	K574-07G
54	K574-07H	.09702	1.0855	.10034	.00072	9.9209	.10059	.10035	.10626	10.171	.12748	K574-07H

55	CCV5	2.4323	25.340	2.3795	.51831	57.852	2.3763	2.4567	2.5129	62.016	1.0676	CCV5
56	CCB5	.00050	.00331	-.00017	.00091	.02221	.00077	.00050	.00032	-.00129	.00001	CCB5
57	L020-04T	.00025	.01648	.00091	.00370	2.4182	.00054	.00460	.00004	1.9302	-.00064	L020-04T
58	L020-05T	.00065	.08320	.00131	.00396	4.3760	.02279	.00109	.00077	1.5129	-.00074	L020-05T
59	L028-02T	.00012	.02549	.00040	.00366	5.3708	.00302	.00110	.00007	1.4876	-.00056	L028-02T
60	L028-03W	.00220	132.57	.03907	.06827	80.594	6.3998	.00161	.02455	24.069	.00522	L02B-03W
61	L028-04T	.00060	.05032	.00095	.00380	4.1801	.00318	.00032	-.00015	1.3599	.00051	L028-04T
62	L028-05W	.00211	2.4252	.01355	.04491	73.771	.71309	.00281	.00145	37.048	.00249	L028-05W
63	CCV6	2.4632	25.099	2.3825	.52520	56.497	2.3489	2.4508	2.5156	62.010	1.0856	CCV6
64	CCB6	.00060	.00729	.00019	.00164	.03945	.00098	.00055	.00023	.06790	.00005	CCB6
65	L076-01A	.89362	101.B5	1.4458	.05034	63.096	3.1574	.51B14	.61172	60.635	.53986	L076-01A
66	L076-01W	.37463	100.26	.98734	.04979	15.863	2.7585	.00411	.07504	8.1731	.00728	L076-01W
67	L076-01J	.07210	20.167	.19697	.00935	3.1882	.55351	.00050	.01403	1.4787	.00096	L076-01J
68	L028-04W	.00161	.04649	.01148	.04144	44.096	.00503	.00424	.00043	15.660	.00105	L028-04W
69	L075-05	.10138	197.80	.55661	.04104	6.1441	3.6125	.01052	.08591	8.2733	.00686	L075-05
70	L075-07	.08265	212.99	1.7614	.04232	6.0725	4.0128	.00912	.07703	9.2561	.00685	L075-07
71	CCV7	2.4634	24.962	2.3967	.52157	57.138	2.3546	2.4756	2.5271	61.689	1.1009*	CCV7
72	CCB7	.00033	.00417	-.00040	.00151	.01535	.00040	.00026	-.00021	.00491	-.00048	CCB7
73	IPL016SB	.00040	.01345	-.00084	.00073	.02622	.00083	.00045	-.00008	.00274	.00038	IPL016SB
74	IPL016SL	.49455	5.2129	.50056	.00079*	49.631	.49129	.53551	.54086	52.977	.52471	IPL016SL
75	IPL016SC	.50329	5.3092	.51053	.00113*	49.062	.49826	.53827	.54B56	52.489	.53545	IPL016SC
76	L076-04A	.72642	106.39	1.4761	.03455	57.033	5.3616	.53024	.62257	57.272	.53B60	L076-04A
77	L076-04	.21872	105.59	1.0314	.03511	10.554	5.1164	.003B7	.08766	5.4904	.00757	L076-04
78	L076-04J	.04180	21.239	.20076	.00730	2.1057	1.0149	.00054	.01583	.98152	.00152	L076-04J
79	L076-04M	.73024	121.41	1.5041	.05665	59.984	5.5946	.53144	.62510	59.171	.51900	L076-04M
80	L076-04S	.72648	117.83	1.5083	.04852	59.374	5.5642	.52578	.62110	58.009	.51649	L076-04S
81	L076-01	.44877	114.41	1.2460	.03613	17.626	3.2470	.00523	.08413	7.1553	.00B36	L076-01
82	CCV8	2.4972	25.011	2.3927	.52430	57.164	2.3711	2.4701	2.5345	62.088	1.1111*	CCV8
83	CCB8	.00023	.00078	-.00036	.00036	.00555	.00013	.00024	-.00021	.01237	-.00063	CCB8
84	IPL012W8	.00019	.00505	-.00051	.00153	.02019	.00009	-.00001	-.00012	-.03810	-.00025	IPL012WB
85	IPL012WL	.49628	5.2493	.49618	.00161*	48.769	.48722	.50042	.52057	52.506	.55997	IPL012WL
86	IPL012WC	.50352	5.3206	.49945	.00156*	48.569	.48979	.50125	.52487	53.35B	.56402	IPL012WC
87	L007-03A	.52377	5.6942	.52185	.02700	72.299	.59710	.50958	.54312	59.346	.59722	LDD7-03A
88	L007-03	.00602	.37349	.01419	.02612	24.217	.10176	.00203	.01059	3.9556	.00062	L007-03
89	L007-03J	.00148	.07569	.00210	.00617	4.9049	.02085	.00041	.00194	.70707	-.00069	L007-03J
90	L007-03M	.51823	5.6265	.51239	.02730	73.605	.59095	.51539	.53625	59.620	.58287	L007-03M
91	L007-03S	.51691	5.6044	.51141	.02729	73.796	.59162	.51439	.53625	60.265	.57341	L007-03S
92	L007-04	.00097	-.00478	.00897	.01692	10.976	.00020	.00185	.00078	2.9486	.00014	L007-04
93	L007-05	.00055	.00155	.00828	.01084	6.0463	.00030	.00453	.00061	1.9951	.00075	L007-05
94	CCV9	2.4797	24.541	2.4047	.53160	56.897	2.3591	2.4886	2.5391	62.623	1.0944	CCV9
95	CCB9	.00088	.00434	.00005	.00182	.02783	.00090	.00070	.00024	.06756	-.00112	CCB9
96	L030-13	.00307	.11140	.01784	.05349	45.953	.01023	.00093	.00329	10.217	-.00186	L030-13
97	L005-03	.00130	1.5058	.00984	.02191	29.101	.31629	.00127	.00333	2.4950	.00072	L005-03
98	L005-04	.00085	.21148	.00689	.02845	23.582	.67234	.00280	.00184	4.1407	-.00053	L005-04
99	L005-04M	.52105	5.5428	.51727	.02985	73.369	1.1530	.51430	.53646	60.344	.58102	L005-04M
100	L005-04S	.51713	5.4996	.50906	.03021	72.214	1.1466	.51040	.52950	59.500	.57263	L005-04S
101	L005-13	.00283	.25470	.00685	1.0673	10.586	.05230	.02050	.00290	41.223	-.00079	L005-13
102	L005-14	.00113	.03419	.01131	.01406	16.453	.00970	.00013	.00003	3.1116	-.00041	L005-14
103	ICSA2	.00203	190.24	.00102	.00752	192.14	.00097	-.00145	-.00092	.08375	.00047	ICSA2
104	ICSAB2	.52351	187.80	.94282	1.1059	192.09	.46525	1.0189	1.0127	83.735	1.1247	ICSAB2
105	CCV10	2.4995	24.874	2.3975	.53050	57.372	2.3781	2.4794	2.5371	62.962	1.0975	CCV10
106	CCB10	.00042	.01494	-.00004	.00140	.04208	.00063	.00032	-.00002	.08260	-.00009	CCB10
107	K362-03T	.00058	.08802	-.00188	.00972	16.693	.00407	.00167	-.00022	5.6431	.00024	K362-03T
108	K362-04T	.00042	.13256	-.00167	.00966	14.313	.00377	.00310	-.00045	7.5154	.00103	K362-04T
109	K362-05T	.00057	.14575	.00138	.01020	11.294	.00275	.00125	.00004	5.5118	.00151	K362-05T
110	K362-03T	.00028	.03804	-.00230	.00944	16.496	.00259	.00150	-.00067	5.5771	.00045	K362-03T
111	K362-04T	.00025	.03967	-.00132	.00940	14.168	.00267	.00283	-.00067	7.3812	.00160	K362-04T

TABLE 4

112	K362-05T	.00028	.02205	.00040	.00954	11.033	.00083	.00128	-.00002	5.4486	.00022	K362-05T
113	CCV11	2.5023	24.501	2.4015	.53310	57.031	2.3771	2.4908	2.5455	63.075	1.0889	CCV11
114	CCB11	.00058	.00583	.00022	.00139	.02812	.00067	.00062	-.00001	.06958	.00070	CCB11
115	L003-02T	.00065	.04210	.00083	.00945	11.533	.00521	.00118	-.00004	7.2109	-.00007	L003-02T
116	L003-03T	.00050	.07202	-.00213	.01211	15.481	.00300	.00245	-.00059	9.8347	.00077	L003-03T
117	L003-05T	.00050	.04745	.00182	.00760	8.9368	.00384	.00113	.00052	3.2600	.00060	L003-05T
118	L003-02T	.00056	.00131	.00069	.00926	11.288	.00403	.00132	-.00024	7.0956	.00140	L003-02T
119	L003-03T	.00028	.04266	-.00209	.01152	14.233	.00197	.00236	-.00063	9.3264	.00107	L003-03T
120	L003-05T	.00052	.00279	.00192	.00803	9.3356	.00254	.00120	.00046	3.3279	.00030	L003-05T
121	CCV12	2.5068	24.778	2.3906	.53150	57.092	2.3672	2.4717	2.5340	62.951	1.1074*	CCV12
122	CCB12	.00065	.00342	-.00008	.00142	.03850	.00077	.00061	.00013	.06052	-.00037	CCB12
123	IPL017WB	.00031	.00012	-.00046	.00111	.02281	.00024	.00012	-.00022	.02627	.00004	IPL017WB
124	IPL017WL	.54414	5.6061	.53100	.00125*	51.883	.52489	.51723	.55261	57.279	.61745*	IPL017WL
125	IPL017WC	.57241	5.7066	.55881	.00134*	50.160	.52531	.47039	.54362	62.838*	.64755*	IPL017WC
126	L119-02A	.52696	5.4924	.50693	.00390	60.477	.55567	.49305	.53365	58.919	.60066	L119-02A
127	L119-02	.00133	.21150	.00066	.00327	13.215	.05415	-.00008	.00095	3.2754	-.00074	L119-02
128	L119-02J	.00032	.03969	.00021	.00173	2.5931	.01057	.00001	.00007	.65463	-.00032	L119-02J
129	L119-02M	.50998	5.3796	.50001	.00408	61.915	.54145	.51330	.52713	57.525	.57584	L119-02M
130	L119-02S	.52926	5.5862	.52020	.00371	64.036	.56163	.53385	.54939	59.739	.60088	L119-02S
131	L119-01	.00272	.33764	.01683	.00340	15.315	.53953	.00827	.00173	3.2292	.00020	L119-01
132	CCV13	2.4842	24.405	2.4016	.53104	56.504	2.3579	2.4915	2.5430	62.603	1.0867	CCV13
133	CCB13	.00073	.00327	-.00010	.0012B	.03034	.000B3	.00059	.00011	.06496	-.00016	CCB13
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00187	-.00009	-.00029	.00006	.00000	-.00011	.00092	Blank
2	S20									S20
3	S21									S21
4	S22							.15857		S22
5	S23							1.5510		S23
6	S24		1.0722							S24
7	S25		6.2386							S25
8	S26									S26
9	S27									S27
10	S28				.13359					S28
11	S29				1.2934					S29
12	S30	.04485		.13266		.02502	.01616		.59781	S30
13	S31	.22111		.65680		.12234	.08031		5.7832	S31
14	ICV	.51324	62.666	.49632	2.3691	.49776	.48937	1.4722	2.6431	ICV
15	ICB	.00014	.02558	.00024	.00091	.00032	.00025	.00040	.00201	ICB
16	MRLL081	.01008	1.0948	.01295*	.01039	.00030	.01078	.01018	.21773*	MRLL081
17	MRLL082	-.00001	-.01719	.00006	-.00033	.00080	.00021	-.00016	.02142	MRLL082
18	ICSA1	.00031	.07811	.02090	-.00211	.00300	.00153	-.00062	.00194	ICSA1
19	ICSAB1	1.1225	82.821	.51690	.90854	.98509	.96804	.49184	1.0671	ICSAB1
20	CCV1	.51681	62.743	.49452	2.3667	.49845	.48612	1.4828	2.6384	CCV1
21	CCB1	-.00002	.02129	.00018	.00005	.00061	.00020	.00016	-.00055	CCB1
22	IPK064WB	.00002	.00346	.00015	.00017	.00024	.00059	.00000	.01565*	IPK064WB
23	IPK064WL	.52373	52.651	.47990	.50592	.50036	.50451	.51030	.54544	IPK064WL
24	IPK064WC	.53695	53.475	.48656	.51160	.50603	.50706	.51922	.55161	IPK064WC
25	K772-01A	.53271	234.81	.95473	.49059	.49007	.48741	.51776	.61524	K772-01A
26	K772-01	.00032	218.89	.58337	-.00002	.00051	.00166	.00292	.07625	K772-01
27	K772-01J	.00003	37.651	.10087	-.00005	.00008	.00038	.00060	.01726	K772-01J
28	ICSA2	.00007	.17168	.02120	-.00234	.00244	.00167	-.00072	.00131	ICSA2
29	ICSAB2	1.1298	82.479	.51611	.90933	.99831	.97110	.49460	1.0734	ICSAB2
30	CCV2	.50877	62.232	.48823	2.3598	.49941	.48343	1.4727	2.6317	CCV2
31	CCB2	-.00001	.03842	.00024	.00018	.00070	.00048	.00020	.00968	CCB2
32	MRLL083	.01082	1.0756	.01077	.01135	.00088	.01060	.01084	.01612*	MRLL083
33	IPL011WQ	-.00002	.01084	.00041	.00020	.00059	.00010	-.00005	.00750	IPL011WQ
34	IPL011WX	.52856	52.987	.48243	.50351	.50180	.50702	.51709	.54993	IPL011WX
35	IPL011WY	.53089	53.284	.48647	.50767	.50715	.50739	.51909	.55295	IPL011WY
36	L020-03A	.53579	326.84	.61762	.48758	.49721	.49801	.51883	.58768	L020-03A
37	L020-03W	-.00009	282.32	.14822	.00043	.00069	.00478	.00473	.02790	L020-03W
38	L020-03J	-.00002	57.590	.02960	-.00018	.00059	.00124	.00097	.00869	L020-03J
39	L027-01T	-.00005	268.48	.21816	-.00036	.00093	.00086	-.00013	.00195	L027-01T
40	L027-06T	-.00018	83.755	.16855	-.00105	.00060	-.00003	-.00019	.00107	L027-06T
41	CCV3	.50533	62.230	.48785	2.3532	.49858	.48138	1.4673	2.6328	CCV3
42	CCB3	.00006	.06381	.00017	.00012	-.00005	.00011	.00017	.00171	CCB3
43	L027-01W	.00095	2050.2*	2.2298	-.00413	.00112	.00347	.00306	.00525	L027-01W
44	L027-02W	-.00002	1.4339	.00077	.00038	.00011	.00017	.00000	.00295	L027-02W
45	L027-04W	.00003	484.67	.46338	-.00006	.00012	.00077	-.00058	.00297	L027-04W
46	L027-06W	.00018	793.86*	1.6898	-.00174	.00006	.00274	.00071	.00309	L027-06W
47	L027-07W	.00011	.43937	.00027	.00048	-.00001	.00021	-.00029	.00029	L027-07W
48	CCV4	.51496	63.017	.48752	2.2777	.49756	.48727	1.5181	2.7874*	CCV4
49	CCB4	.00034	.24501	.00039	.00103	.00024	.00030	.00057	.00100	CCB4
50	K574-07A	.50053	51.915	.45722	.48291	.48819	.49294	.52737	.59479	K574-07A
51	K574-07T	.00529	1.9601	.01346	-.00298	.00354	.01348	.00651	.00441	K574-07T
52	K574-07J	.00005	.23211	.00028	-.00059	.00102	.00015	.00001	.00204	K574-07J
53	K574-07G	.10050	11.047	.09730	.09804	.10283	.10286	.10499	.11827	K574-07G
54	K574-07H	.09918	10.954	.09624	.09685	.10159	.10154	.10377	.11969	K574-07H

55	CCV5	.50356	62.176	.48255	2.3219	.49712	.48509	1.4835	2.7074	CCV5
56	CCB5	.00011	.07824	.00016	.00093	.00048	.00018	.00018	.00049	CCB5
57	L020-04T	-.00003	84.298	.04743	.00057	.00039	.00145	.00122	.00175	L020-04T
58	L020-05T	.00011	96.223	.08208	.00025	.00028	.00107	.00025	.00161	L020-05T
59	L028-02T	.00016	76.345	.09555	.00060	-.00006	.00164	.00049	-.00125	L028-02T
60	L028-03W	.00024	808.03*	2.2680	-.00393	.00415	.01736	.00282	.00835	L028-03W
61	L028-04T	.00011	79.092	.07500	.00049	.00061	.00043	.00063	.00193	L028-04T
62	L028-05W	.00004	1030.5*	.56692	.00120	.00088	.01672	.00194	.00006	L028-05W
63	CCV6	.50745	63.160	.48581	2.3191	.49510	.48554	1.4743	2.6967	CCV6
64	CCB6	.00014	.28291	.00031	.00099	.00014	.00010	.00035	.00007	CCB6
65	L076-01A	.51424	53.216	.56220	.48512	.50583	1.4786	.73811	18.388	L076-01A
66	L076-01W	-.00013	.67814	.08756	-.00119	.02060	1.0048	.23098	18.254	L076-01W
67	L076-01J	-.00014	.14715	.01700	-.00021	.00428	.19742	.04497	3.6140	L076-01J
68	L028-04W	.00032	778.41*	.77191	.00549	-.00040	.00597	.00729	-.00567*	L028-04W
69	L075-05	-.00029	1.5875	.14019	-.00302	.02203	.71976	.29961	4.2325	L075-05
70	L075-07	-.00024	.4B215	.10250	-.00200	.02096	.83278	.33068	2.0100	L075-07
71	CCV7	.50996	61.947	.48251	2.3449	.49472	.48472	1.4730	2.6809	CCV7
72	CCB7	.00005	.07045	.00013	-.00001	.00025	.00020	.00001	.00029	CCB7
73	IPL016SB	-.00016	.08722	.00036	-.00065	.02177	.00039	.00011	.00354	IPL016SB
74	IPL016SL	.49890	53.399	.47575	.49222	.52475	.50621	.51554	.57298	IPL016SL
75	IPL016SC	.51153	52.783	.48102	.50050	.52428	.50998	.52472	.58261	IPL016SC
76	L076-04A	.50068	52.659	.56524	.48010	.50821	.93333	.76376	25.770	L076-04A
77	L076-04	-.00044	.73497	.09191	-.00364	.01892	.45562	.26519	26.028	L076-04
78	L076-04J	-.00019	.14475	.01774	-.00064	.00348	.08764	.05150	5.1221	L076-04J
79	L076-04M	.50690	53.642	.59252	.46823	.51286	.95538	.78889	26.920	L076-04M
80	L076-04S	.50595	53.306	.58074	.47128	.50913	.80776	.77834	26.815	L076-04S
81	L076-01	-.00022	.63810	.09261	-.00234	.01784	.58925	.23915	22.935	L076-01
82	CCV8	.51675	62.287	.48769	2.3392	.49131	.48519	1.4753	2.6819	CCV8
83	CCB8	.00004	.03440	.00009	.00033	.00033	.00002	-.00018	.00081	CCB8
84	IPL012W8	.00004	.03448	.00034	.00010	.00026	.00052	-.00014	.00646	IPL012W8
85	IPL012WL	.51982	52.523	.47515	.49322	.49062	.50369	.50697	.55111	IPL012WL
86	IPL012WC	.52717	53.081	.47993	.49540	.49049	.50631	.51202	.55392	IPL012WC
87	L007-03A	.53576	187.89	3.1008	.49408	.49609	.50960	.53263	.61911	L007-03A
88	L007-03	-.00013	137.91	2.6840	.00032	.00061	.01112	.01355	.05433	L007-03
89	L007-03J	.00004	27.848	.54439	.00011	.00039	.00270	.00270	.01130	L007-03J
90	L007-03M	.54478	191.85	3.1841	.48319	.50175	.51524	.52553	.61396	L007-03M
91	L007-03S	.54323	192.63	3.1989	.48352	.50002	.51621	.52456	.61453	L007-03S
92	L007-04	-.00002	100.58	1.3917	.00072	.00022	.00104	.01436	.00766	L007-04
93	L007-05	.00006	62.520	.56921	.00032	-.00006	.00010	.02557	.00323	L007-05
94	CCV9	.50717	62.828	.48902	2.3474	.49271	.48827	1.4542	2.6698	CCV9
95	CCB9	.00022	.11100	.00046	.00029	.00046	.00034	.00036	.00102	CCB9
96	L030-13	.00010	51.462	.41583	.00043	.00046	.00154	.00011	.01981	L030-13
97	L005-03	-.00017	45.101	.33234	.00022	-.00003	.00127	.00020	.00281	L005-03
98	L005-04	.00001	16.720	.21247	.00027	.00000	.00092	-.00010	.00326	L005-04
99	L005-04M	.54659	71.648	.69689	.50070	.49742	.51259	.52057	.56522	L005-04M
100	L005-04S	.543B5	70.909	.69336	.49482	.49432	.50733	.51598	.55457	L005-04S
101	L005-13	.00008	106.37	.37185	.00052	.00032	.00363	.00028	.03094	L005-13
102	L005-14	-.00002	18.954	.22238	.00094	.00005	.00196	.00028	.02422	L005-14
103	ICSA2	.00033	.21071	.02164	-.00159	.00183	.00194	-.00054	.00055	ICSA2
104	ICSAB2	1.1246	82.715	.51463	.89617	.97731	.97349	.48903	1.0781	ICSAB2
105	CCV10	.51321	62.923	.49113	2.3400	.49282	.48833	1.4661	2.6687	CCV10
106	CCB10	.00010	.06950	.00019	.00031	.00043	-.00038	.00014	.00021	CCB10
107	K362-03T	.00032	237.61	.18827	.00612	-.00078	.00840	.00107	-.01563*	K362-03T
108	K362-04T	.00026	219.18	.16695	.00669	-.00073	.00966	.00120	-.01817*	K362-04T
109	K362-05T	.00027	196.06	.17754	.00421	-.00069	.00747	.00222	.02034	K362-05T
110	K362-03T	.00026	231.94	.18423	.00567	-.00094	.00746	.00097	-.01829*	K362-03T
111	K362-04T	.00017	218.08	.16690	.00605	-.00060	.00727	.00121	-.01835*	K362-04T

112	K362-05T	.00025	195.32	.17226	.00380	-.00044	.00467	.00173	-.00975*	K362-05T
113	CCV11	.50890	63.321	.49300	2.3413	.49088	.48861	1.4503	2.6577	CCV11
114	CCB11	-.00001	.11314	.00021	.00039	.00018	.00031	.00018	.00018	CCB11
115	L003-02T	.00013	230.63	.05772	.00108	.00036	.00264	.00072	-.00108	L003-02T
116	L003-03T	.00040	240.26	.12680	.00695	-.00082	.00906	.00216	-.02048*	L003-03T
117	L003-05T	-.00003	146.61	.16774	.00068	.00019	.00269	.00174	-.00194	L003-05T
118	L003-02T	.00000	225.10	.05125	.00110	.00033	.00170	.00042	-.00333	L003-02T
119	L003-03T	.00029	229.93	.11948	.00673	-.00079	.00806	.00194	-.01945*	L003-03T
120	L003-05T	-.00005	151.63	.17279	.00147	.00021	.00150	.00139	-.00275	L003-05T
121	CCV12	.51579	63.185	.49064	2.3234	.48733	.48607	1.4622	2.6583	CCV12
122	CCB12	.00000	.13729	.00020	.00048	.00027	.00025	.00030	.00031	CCB12
123	IPL017WB	-.00004	.08730	.00040	.00015	.00064	.00014	.00001	.00456	IPL017WB
124	IPL017WL	.56589	57.114	.50906	.52542	.50661	.53243	.53803	.58440	IPL017WL
125	IPL017WC	.60154*	59.523	.50698	.59791	.37326*	.52082	.54176	.66145*	IPL017WC
126	L119-02A	.53564	206.36	.54616	.48730	.47004	.50262	.50958	.56618	L119-02A
127	L119-02	-.00002	154.41	.06558	.00035	.00031	.00946	.00022	.00482	L119-02
128	L119-02J	.00005	30.418	.01279	.00013	.00032	.00203	-.00003	.00205	L119-02J
129	L119-02M	.53195	202.89	.54949	.48210	.49257	.52002	.50217	.56107	L119-02M
130	L119-02S	.55087	211.71	.57042	.50254	.51074	.54058	.52102	.58455	L119-02S
131	L119-01	.00004	153.49	.16803	.00080	.00041	.01801	.00852	.00582	L119-01
132	CCV13	.50438	62.858	.49317	2.3379	.48626	.48698	1.4403	2.6547	CCV13
133	CCB13	.00008	.11402	.00026	.00052	.00019	.00025	.00037	.00041	CCB13
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8L009 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-096
Batch: IPL015-S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

12-7-10 Start	Temp	12-7-10 End	Temp
10:00	90°C	12:00	90°C

Hot plate C

Standards	ID	Amount Added (ml)
LCS-1	SMIA-13-02-07	0.5
LCS-2	↓ ↓ - ↓ -08	0.5
LCS-3	↓ ↓ - ↓ -09	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SWIA-04-291	10.0
HCl	↓ ↓ - 282	10.0
H_2O_2	↓ ↓ - 209	10.0
HNO3(1:1)	SM5B-02-133	10.0

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SMSA-02-059
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☐ Thermometer ID: 10161563 2

Prepared By: MC
Standard Added By: MC Witnessed By: TH
Extract Rcvd By: TH Checked By: TH 12/7/10

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
10IPL015S01	IPL015SB	1	g	12/7/10 9:24	100	1	100	1	
10IPL015S02	IPL015SL	1	g	12/7/10 9:24	100	1	100	1	
10IPL015S03	IPL015SC	1	g	12/7/10 9:24	100	1	100	1	
10IPL015S04	L075-01	1.006	g	12/7/10 9:25	100	1	100	0.994	XRF
10IPL015S05	L075-02	1.001	g	12/7/10 9:26	100	1	100	0.999	XRF
10IPL015S06	L075-03	1.012	g	12/7/10 9:28	100	1	100	0.988	XRF
10IPL015S07	L075-04	1.018	g	12/7/10 9:29	100	1	100	0.982	XRF
10IPL015S08	L075-05	1.007	g	12/7/10 9:30	100	1	100	0.993	XRF
10IPL015S09	L075-06	1.018	g	12/7/10 9:31	100	1	100	0.982	XRF
10IPL015S10	L075-07	1.004	g	12/7/10 9:33	100	1	100	0.996	XRF
10IPL015S11	L075-08	1.017	g	12/7/10 9:34	100	1	100	0.983	XRF
10IPL015S12	L076-01	1.012	g	12/7/10 9:36	100	1	100	0.988	XRF
10IPL015S13	L076-02	1.002	g	12/7/10 9:37	100	1	100	0.998	XRF
10IPL015S14	L076-03	1.012	g	12/7/10 9:38	100	1	100	0.988	XRF
10IPL015S15	L076-04	1.008	g	12/7/10 9:39	100	1	100	0.992	XRF
10IPL015S16	L076-05	1.009	g	12/7/10 9:40	100	1	100	0.991	XRF
10IPL015S17	L076-06	1.015	g	12/7/10 9:41	100	1	100	0.985	XRF
10IPL015S18	L076-07	1.027	g	12/7/10 9:41	100	1	100	0.974	XRF
10IPL015S19	L076-07M	1.027	g	12/7/10 9:42	100	1	100	0.974	XRF
10IPL015S20	L076-07S	1.026	g	12/7/10 9:44	100	1	100	0.975	XRF

12-7-10 MC

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 12/7/10 10:00 Prepared By: MC

☑ Digestion Ended @ 12/7/10 12:00 Checked By: TH

Comments: Date 12/7/2010

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 10L075

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of two (2) soil samples were received on 12/04/10 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPL016SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10L075
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL016SB	1	NA	12/08/1020:29	12/08/1010:00	ID8L009073	ID8L009071	IPL016S	Method Blank
LCS1S	IPL016SL	1	NA	12/08/1020:32	12/08/1010:00	ID8L009074	ID8L009071	IPL016S	Lab Control Sample (LCS)
LCD1S	IPL016SC	1	NA	12/08/1020:35	12/08/1010:00	ID8L009075	ID8L009071	IPL016S	LCS Duplicate
CP091-02-01	L076-04	0.992	NA	12/08/1020:40	12/08/1010:00	ID8L009077	ID8L009071	IPL016S	Field Sample
CP091-02-01DL	L076-04J	4.96	NA	12/08/1020:43	12/08/1010:00	ID8L009078	ID8L009071	IPL016S	Diluted Sample
CP093-S1-01-01	L075-05	0.998	NA	12/08/1020:18	12/08/1010:00	ID8L009069	ID8L009063	IPL016S	Field Sample
CP093-S2-01-01	L075-07	0.992	NA	12/08/1020:21	12/08/1010:00	ID8L009070	ID8L009063	IPL016S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/23/10 10:15
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/08/10 10:00
Sample ID:	CP093-S1-01-01	Date Analyzed:	12/08/10 20:18
Lab Samp ID:	L075-05	Dilution Factor:	0.998
Lab File ID:	ID8L009069	Matrix :	SOIL
Ext Btch ID:	IPL016S	% Moisture :	NA
Calib. Ref.:	ID8L009063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	55.5	0.998	0.200

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 10:30
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L075	Date Extracted:	12/08/10 10:00
Sample ID:	CP093-S2-01-01	Date Analyzed:	12/08/10 20:21
Lab Samp ID:	L075-07	Dilution Factor:	0.992
Lab File ID:	ID8L009070	Matrix :	SOIL
Ext Btch ID:	IPL016S	% Moisture :	NA
Calib. Ref.:	ID8L009063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	175	0.992	0.198

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/08/10
SDG NO.	: 10L075	Date Extracted:	12/08/10 10:00
Sample ID:	MBLK1S	Date Analyzed:	12/08/10 20:29
Lab Samp ID:	IPL016SB	Dilution Factor:	1
Lab File ID:	ID8L009073	Matrix :	SOIL
Ext Btch ID:	IPL016S	% Moisture :	NA
Calib. Ref.:	ID8L009071	Instrument ID :	EMAXT1D8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L075
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL016SB	IPL016SL	IPL016SC		
LAB FILE ID:	ID8L009073	ID8L009074	ID8L009075		
DATIME EXTRCTD:	12/08/1010:00	12/08/1010:00	12/08/1010:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/08/1020:29	12/08/1020:32	12/08/1020:35	DATE RECEIVED:	12/08/10
PREP. BATCH:	IPL016S	IPL016S	IPL016S		
CALIB. REF:	ID8L009071	ID8L009071	ID8L009071		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	50.1	100	50	51.1	102	2	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10L075
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.992	4.96		
SAMPLE ID:	CP091-02-01	CP091-02-01DL		
EMAX SAMP ID:	L076-04	L076-04J		
LAB FILE ID:	ID8L009077	ID8L009078		
DATE EXTRACTED:	12/08/1010:00	12/08/1010:00	DATE COLLECTED:	11/21/10 14:30
DATE ANALYZED:	12/08/1020:40	12/08/1020:43	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL016S	IPL016S		
CALIB. REF:	ID8L009071	ID8L009071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	102	99.6	3	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/8/10 16:41

End Date: 12/8/10 + 23:20

TH 12/9/10

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments: IEL update for CA
CCV7 Tin
CCV8, CCV12 ↑Se

Book #: AD8-017

Instrument No.: D8

Analytical Batch: 1D8L009

Analytical Sequence: S 10L6010 (V16)

Method File: 10L6010(V16)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-1601	S30	SM1B14 0203
S1	NA	S31	↓ 0204
S2		ICV	SM1B14 0901
S3		CCV	1402
S4		ICSA	1103
S5		ICSAB	↓ 0303
S6		MLCV	NA
S7		LLCV	↓
S8		CRI/MRL 1,3	SM1B12 8501
S9		2	SM1B14 180
S10			
S11			
S12			
S16			
S17			
S18	↓		
S20	SM1B12-100-01		
S21	SM1B14-0101		
S22	0102		
S23	01-03		
S24	01-04		
S25	↓ 0105		
S26	SM1B12-100-02		
S27	↓ 100-03		
S28	SM1B14-0201		
S29	↓ 0202		

Analyzed By: TH

Date: 12/9/10

SEQUENCE FILE : ID8L009

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8L009001	Blank	16:41	12/08/10	1.000
ID8L009002	S20	16:44	12/08/10	1.000
ID8L009003	S21	16:47	12/08/10	1.000
ID8L009004	S22	16:50	12/08/10	1.000
ID8L009005	S23	16:53	12/08/10	1.000
ID8L009006	S24	16:56	12/08/10	1.000
ID8L009007	S25	16:59	12/08/10	1.000
ID8L009008	S26	17:02	12/08/10	1.000
ID8L009009	S27	17:05	12/08/10	1.000
ID8L009010	S28	17:08	12/08/10	1.000
ID8L009011	S29	17:11	12/08/10	1.000
ID8L009012	S30	17:14	12/08/10	1.000
ID8L009013	S31	17:17	12/08/10	1.000
ID8L009014	ICV	17:20	12/08/10	1.000
ID8L009015	IC8	17:22	12/08/10	1.000
ID8L009016	MRLL081	17:33	12/08/10	1.000
ID8L009017	MRLL082	17:36	12/08/10	1.000
ID8L009018	ICSA1	17:39	12/08/10	1.000
ID8L009019	ICSAB1	17:42	12/08/10	1.000
ID8L009020	CCV1	17:45	12/08/10	1.000
ID8L009021	CCB1	17:48	12/08/10	1.000
ID8L009022	IPK064WB	17:58	12/08/10	1.000
ID8L009023	IPK064WL	18:01	12/08/10	1.000
ID8L009024	IPK064WC	18:04	12/08/10	1.000
ID8L009025	K772-01A	18:06	12/08/10	1.000
ID8L009026	K772-01	18:09	12/08/10	1.000
ID8L009027	K772-01J	18:12	12/08/10	5.000
ID8L009028	ICSA2	18:15	12/08/10	1.000
ID8L009029	ICSAB2	18:18	12/08/10	1.000
ID8L009030	CCV2	18:21	12/08/10	1.000
ID8L009031	CC82	18:24	12/08/10	1.000
ID8L009032	MRLL083	18:27	12/08/10	1.000
ID8L009033	IPL011WQ	18:29	12/08/10	1.000
ID8L009034	IPL011WX	18:32	12/08/10	1.000
ID8L009035	IPL011WY	18:35	12/08/10	1.000
ID8L009036	L020-03A	18:38	12/08/10	1.000
ID8L009037	L020-03W	18:40	12/08/10	1.000
ID8L009038	L020-03J	18:43	12/08/10	5.000
ID8L009039	L027-01T	18:46	12/08/10	10.00
ID8L009040	L027-06T	18:49	12/08/10	10.00
ID8L009041	CCV3	18:52	12/08/10	1.000
ID8L009042	CCB3	18:55	12/08/10	1.000
ID8L009043	L027-01W	18:57	12/08/10	1.000
ID8L009044	L027-02W	19:01	12/08/10	1.000
ID8L009045	L027-04W	19:04	12/08/10	1.000
ID8L009046	L027-06W	19:06	12/08/10	1.000
ID8L009047	L027-07W	19:10	12/08/10	1.000
ID8L009048	CCV4	19:12	12/08/10	1.000
ID8L009049	CCB4	19:15	12/08/10	1.000
ID8L009050	K574-07A	19:18	12/08/10	5.000
ID8L009051	K574-07T	19:21	12/08/10	5.000
ID8L009052	K574-07J	19:24	12/08/10	25.00
ID8L009053	K574-07G	19:33	12/08/10	5.000
ID8L009054	K574-07H	19:36	12/08/10	5.000

ID8L009055	CCV5	19:39	12/08/10	1.000
ID8L009056	CCB5	19:41	12/08/10	1.000
ID8L009057	L020-04T	19:44	12/08/10	10.00
ID8L009058	L020-05T	19:47	12/08/10	10.00
ID8L009059	L028-02T	19:50	12/08/10	10.00
ID8L009060	L028-03W	19:53	12/08/10	1.000
ID8L009061	L028-04T	19:56	12/08/10	10.00
ID8L009062	L028-05W	19:58	12/08/10	1.000
ID8L009063	CCV6	20:01	12/08/10	1.000
ID8L009064	CCB6	20:04	12/08/10	1.000
ID8L009065	L076-01A	20:07	12/08/10	1.000
ID8L009066	L076-01W	20:10	12/08/10	1.000
ID8L009067	L076-01J	20:12	12/08/10	5.000
ID8L009068	L028-04W	20:15	12/08/10	1.000
ID8L009069	L075-05 *	20:18	12/08/10	1.000
ID8L009070	L075-07	20:21	12/08/10	1.000
ID8L009071	CCV7	20:24	12/08/10	1.000
ID8L009072	CCB7	20:27	12/08/10	1.000
ID8L009073	IPL016SB	20:29	12/08/10	1.000
ID8L009074	IPL016SL	20:32	12/08/10	1.000
ID8L009075	IPL016SC	20:35	12/08/10	1.000
ID8L009076	L076-04A *	20:38	12/08/10	1.000
ID8L009077	L076-04	20:40	12/08/10	1.000
ID8L009078	L076-04J	20:43	12/08/10	5.000
ID8L009079	L076-04M	20:46	12/08/10	1.000
ID8L009080	L076-04S	20:48	12/08/10	1.000
ID8L009081	L076-01	20:51	12/08/10	1.000
ID8L009082	CCV8	20:54	12/08/10	1.000
ID8L009083	CCB8	20:57	12/08/10	1.000
ID8L009084	IPL012WB	21:00	12/08/10	1.000
ID8L009085	IPL012WL	21:02	12/08/10	1.000
ID8L009086	IPL012WC	21:05	12/08/10	1.000
ID8L009087	L007-03A	21:08	12/08/10	1.000
ID8L009088	L007-03	21:10	12/08/10	1.000
ID8L009089	L007-03J	21:13	12/08/10	5.000
ID8L009090	L007-03M	21:16	12/08/10	1.000
ID8L009091	L007-03S	21:19	12/08/10	1.000
ID8L009092	L007-04	21:22	12/08/10	1.000
ID8L009093	L007-05	21:25	12/08/10	1.000
ID8L009094	CCV9	21:28	12/08/10	1.000
ID8L009095	CCB9	21:30	12/08/10	1.000
ID8L009096	L030-13	21:33	12/08/10	1.000
ID8L009097	L005-03	21:36	12/08/10	1.000
ID8L009098	L005-04	21:39	12/08/10	1.000
ID8L009099	L005-04M	21:42	12/08/10	1.000
ID8L009100	L005-04S	21:44	12/08/10	1.000
ID8L009101	L005-13	21:47	12/08/10	1.000
ID8L009102	L005-14	21:50	12/08/10	1.000
ID8L009103	ICSA2	21:53	12/08/10	1.000
ID8L009104	ICSA82	21:56	12/08/10	1.000
ID8L009105	CCV10	21:59	12/08/10	1.000
ID8L009106	CCB10	22:01	12/08/10	1.000
ID8L009107	K362-03T	22:04	12/08/10	5.000
ID8L009108	K362-04T	22:07	12/08/10	5.000
ID8L009109	K362-05T	22:10	12/08/10	5.000
ID8L009110	K362-03T	22:13	12/08/10	5.000
ID8L009111	K362-04T	22:17	12/08/10	5.000

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ID8L009112	K362-05T	22:20	12/08/10	5.000
ID8L009113	CCV11	22:23	12/08/10	1.000
ID8L009114	CCB11	22:26	12/08/10	1.000
ID8L009115	L003-02T	22:28	12/08/10	5.000
ID8L009116	L003-03T	22:31	12/08/10	5.000
ID8L009117	L003-05T	22:35	12/08/10	5.000
ID8L009118	L003-02T	22:38	12/08/10	5.000
ID8L009119	L003-03T	22:40	12/08/10	5.000
ID8L009120	L003-05T	22:44	12/08/10	5.000
ID8L009121	CCV12	22:47	12/08/10	1.000
ID8L009122	CCB12	22:49	12/08/10	1.000
ID8L009123	IPL017WB	22:52	12/08/10	1.000
ID8L009124	IPL017WL	22:55	12/08/10	1.000
ID8L009125	IPL017WC	22:58	12/08/10	1.000
ID8L009126	L119-02A	23:00	12/08/10	1.000
ID8L009127	L119-02	23:03	12/08/10	1.000
ID8L009128	L119-02J	23:06	12/08/10	5.000
ID8L009129	L119-02M	23:09	12/08/10	1.000
ID8L009130	L119-02S	23:12	12/08/10	1.000
ID8L009131	L119-01	23:14	12/08/10	1.000
ID8L009132	CCV13	23:17	12/08/10	1.000
ID8L009133	CCB13	23:20	12/08/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : ID8L009 DATE : 12/08/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	102	106	101	100	100	105	104	98	95	102	98	96	107	93	95	101	103	104	106	103	104	99	95	100	98	98	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL081	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	101	----	----	----	----	----	----	97	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	105	107	108	107	99	103	107	99	96	95	107	95	94	112	97	93	104	103	111	109	112	110	103	91	99	97	98	107
CCV1	108	103	106	100	99	101	105	104	99	95	102	99	96	107	93	95	101	103	104	107	103	105	99	95	100	97	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	101	----	----	----	----	----	----	98	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	103	108	110	106	98	104	107	98	96	94	107	94	94	111	94	93	104	103	110	110	113	110	103	91	100	97	99	107
CCV2	107	102	105	99	99	99	104	104	98	94	101	99	96	105	93	94	100	102	103	106	102	104	98	94	100	97	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL083	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	102	105	99	98	99	104	103	98	94	100	99	95	105	93	93	100	101	103	106	101	104	98	94	100	96	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	106	104	110	99	99	101	103	106	104	91	97	105	95	105	96	95	96	99	104	109	103	105	98	91	100	97	101	111*
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	106	102	107	98	99	98	104	106	100	93	97	101	95	104	96	95	98	101	103	107	101	104	97	93	99	97	99	108
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	104	108	99	99	99	104	104	99	93	99	100	95	105	94	94	98	101	103	109	101	105	97	93	99	97	98	108
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	105	105	110	99	99	99	104	105	99	94	99	100	96	104	95	94	99	101	103	110	102	103	97	94	99	97	98	107
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	106	105	110	99	99	100	104	105	100	94	100	100	96	105	95	95	99	101	103	111*	103	104	98	94	98	97	98	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	104	109	100	100	98	105	104	97	94	99	98	96	106	95	94	100	102	104	109	101	105	98	94	99	98	97	107
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	102	----	----	----	----	----	----	99	----	----	----	95	----	----	96	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	101	109	112	106	99	103	107	98	97	93	105	94	94	111	96	93	102	101	112	112	112	110	103	90	98	97	98	108
CCV10	106	104	109	100	100	99	105	105	99	94	100	99	96	106	96	95	99	101	105	110	103	105	98	94	99	98	98	107
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	105	103	108	101	100	99	105	104	98	94	100	98	96	107	95	95	100	102	105	109	102	106	99	94	98	98	97	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	106	105	110	100	100	100	104	104	100	94	100	99	96	106	95	95	99	101	105	111*	103	105	98	93	97	97	97	106
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	105	103	108	101	100	98	105	104	98	94	99	98	96	106	94	94	100	102	104	109	101	105	99	94	97	97	96	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L009 (SOIL) DATE : 12/08/10 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	26.2	.520	.770	.780	.600	3.53	.170	46.9	.630	.120	.650	5.20	.410	1.000	28.0	1.01	.520	.050	24.4	-.570	.140	25.6	.240	.910	.320	.250	.400	2.01
MRLL081	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.48	-2.63	.920	-.130	10.1	1.68	----	1.17	-.760	1.89	----	1.42	6.72	----	.620	-1.89	-1.24	57.6	.190	.310	78.1	20.9	-2.11	3.00	1.53	-.620	1.94
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	26.4	.510	.140	.180	.320	2.63	.110	30.6	.070	.120	.110	10.6	-.500	1.12	22.3	.510	.300	-.150	7.55	-.110	-.020	21.3	.180	.050	.610	.200	.160	-.550
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	7.36	1.49	.980	-.070	12.8	1.74	----	1.18	-.730	1.84	----	-.320	6.33	----	.660	-1.84	-1.13	61.7	1.62	.070	172	21.2	-2.34	2.44	1.67	-.720	1.31
ICSA82	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	35.5	1.69	.060	.470	.350	3.03	.190	254	.220	.130	.450	14.7	-.790	1.05	42.8	.530	.440	.110	25.7	.240	-.010	38.4	.240	.180	.700	.480	.200	9.68
MRLL0B3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	8.89	1.39	-.280	.420	.400	2.89	.170	22.3	.160	.120	.430	.400	-.710	1.59	21.1	.730	.380	-.130	21.6	-.220	.060	63.8	.170	.120	-.050	.110	.170	1.71
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	38.8	1.44	.530	1.30	1.02	5.05	.710	52.9	1.02	.320	.960	12.0	.230	1.13	72.1	2.31	1.03	.770	59.3	.360	.340	245	.390	1.03	.240	.300	.570	1.000
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.9	1.07	.250	.730	.520	2.62	.290	15.9	.470	.210	.500	3.31	-.170	.910	22.2	.770	.500	.320	-1.29	.010	.110	78.2	.160	.930	.480	.180	.180	.490
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	22.3	.620	.770	.740	.650	3.82	.380	24.6	.870	.200	.600	7.29	.190	1.64	39.5	.980	.550	.230	67.9	.050	.140	283	.310	.990	.140	.100	.350	.070
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	3.50	.770	-.570	.230	.140	2.03	.050	2.16	.020	.030	.330	4.17	-.400	1.51	15.3	.400	.260	-.210	4.91	-.480	.050	70.4	.130	-.010	.250	.200	.010	.290
IPL016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	1.73	.840	-.140	-.020	.100	2.22	.030	-5.65	-.170	.090	.230	.780	-.360	.360	5.55	.130	.240	-.210	12.4	-.630	.040	34.4	.090	.330	.330	.020	-.180	.810
IPL012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	26.3	1.92	.450	.610	.530	2.95	.370	30.4	.560	.240	.880	4.34	.050	1.82	27.8	.900	.700	.240	67.6	-1.12	.220	111	.460	.290	.460	.340	.360	1.02
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	8.74	-2.04	1.38	.040	9.83	-.460	----	1.39	-.520	2.03	----	1.02	7.52	----	.970	-1.45	-.920	83.8	.470	.330	211	21.6	-1.59	1.83	1.94	-.540	.550
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	39.3	1.10	-1.10	.450	.390	2.11	.160	54.2	.220	.010	.420	14.9	-.040	1.40	42.1	.630	.320	-.020	82.6	-.090	.100	69.5	.190	.310	.430	-.380	.140	.210
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	22.5	1.66	-.500	.650	.490	1.81	.240	14.4	2.19	.140	.580	5.83	.220	1.39	28.1	.670	.620	-.010	69.6	.700	-.010	113	.210	.390	.180	.310	.180	.180
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	25.2	1.25	-.030	.650	.520	2.09	.290	17.5	1.67	.140	.650	3.42	-.080	1.42	38.5	.770	.610	.130	60.5	-.370	.000	137	.200	.480	.270	.250	.300	.310
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	23.5	1.89	.270	.700	.540	2.54	.300	19.8	.540	.280	.730	3.27	-.100	1.28	30.3	.830	.590	.110	65.0	-.160	.080	114	.260	.520	.190	.250	.370	.410

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L009001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L009002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L009003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L009004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L009005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L009006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L009007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L009008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L009009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L009010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L009011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L009012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L009013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8L009014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L009015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL081		ID8L009016			1	☒	MRL-EMAX	None
17	4	2	4	1	Unk	MRLL082		ID8L009017			1	☒	unk	---
18	5	2	5	1	QC	ICSA1		ID8L009018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L009019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L009020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L009021			1	☒	3XIDL	None
22	53	2	5	5	QC	IPK064WB		ID8L009022			1	☒	1/2LOQ	None
23	54	2	6	5	QC	IPK064WL		ID8L009023			1	☒	LCS	None
24	55	2	7	5	QC	IPK064WC		ID8L009024			1	☒	LCS-200.7	None
25	56	2	8	5	Unk	K772-01A		ID8L009025			1	☒	unk	---
26	57	2	9	5	Unk	K772-01		ID8L009026			1	☒	unk	---
27	58	2	10	5	Unk	K772-01J		ID8L009027			1	☒	unk	---
28	59	2	11	5	QC	ICSA2		ID8L009028			1	☒	ICSA	None
29	60	2	12	5	QC	ICSAB2		ID8L009029			1	☒	ICSAB	None
30	61	3	1	1	QC	CCV2		ID8L009030			1	☒	CCV	None
31	62	3	2	1	QC	CCB2		ID8L009031			1	☒	3XIDL	None
32	102	3	6	4	QC	MRLL083		ID8L009032			1	☒	MRL-EMAX	None
33	103	3	7	4	QC	IPL011WQ		ID8L009033			1	☒	1/2LOQ	None
34	104	3	8	4	QC	IPL011WX		ID8L009034			1	☒	LCS	None
35	105	3	9	4	QC	IPL011WY		ID8L009035			1	☒	LCS	None
36	9	2	9	1	Unk	L020-03A	TOT	ID8L009036			1	☒	unk	---
37	10	2	10	1	Unk	L020-03W	TOT	ID8L009037			1	☒	unk	---
38	11	2	11	1	Unk	L020-03J	TOT	ID8L009038			1	☒	unk	---
39	13	2	1	2	Unk	L027-01T	10X	ID8L009039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
40	15	2	3	2	Unk	L027-06T	10X	ID8L009040			1	☒	unk	—
41	106	3	10	4	QC	CCV3		ID8L009041			1	☒	CCV	None
42	107	3	11	4	QC	CCB3		ID8L009042			1	☒	3XIDL	None
43	12	2	12	1	Unk	L027-01W		ID8L009043			1	☒	unk	—
44	14	2	2	2	Unk	L027-02W		ID8L009044			1	☒	unk	—
45	108	3	12	4	Unk	L027-04W		ID8L009045			1	☒	unk	—
46	109	3	1	5	Unk	L027-06W		ID8L009046			1	☒	unk	—
47	16	2	4	2	Unk	L027-07W		ID8L009047			1	☒	unk	—
48	17	2	5	2	QC	CCV4	1/2w	ID8L009048			1	☒	CCV	None
49	18	2	6	2	QC	CCB4		ID8L009049			1	☒	3XIDL	None
50	19	2	7	2	Unk	K574-07A	5X TCLP	ID8L009050			1	☒	unk	—
51	20	2	8	2	Unk	K574-07T	5X TCLP	ID8L009051			1	☒	unk	—
52	21	2	9	2	Unk	K574-07J	25X TCLP	ID8L009052			1	☒	unk	—
53	22	2	10	2	Unk	K574-07G	5X TCLP	ID8L009053			1	☒	unk	—
54	23	2	11	2	Unk	K574-07H	5X TCLP	ID8L009054			1	☒	unk	—
55	24	2	12	2	QC	CCV5		ID8L009055			1	☒	CCV	None
56	25	2	1	3	QC	CCB5		ID8L009056			1	☒	3XIDL	None
57	26	2	2	3	Unk	L020-04T	10X TOT	ID8L009057			1	☒	unk	—
58	27	2	3	3	Unk	L020-05T	10X TOT	ID8L009058			1	☒	unk	—
59	28	2	4	3	Unk	L028-02T	10X TOT	ID8L009059			1	☒	unk	—
60	29	2	5	3	Unk	L028-03W	TOT	ID8L009060			1	☒	unk	—
61	30	2	6	3	Unk	L028-04T	10X TOT	ID8L009061			1	☒	unk	—
62	31	2	7	3	Unk	L028-05W	TOT	ID8L009062			1	☒	unk	—
63	32	2	8	3	QC	CCV6		ID8L009063			1	☒	CCV	None
64	33	2	9	3	QC	CCB6		ID8L009064			1	☒	3XIDL	None
65	34	2	10	3	Unk	L076-01A	XRF	ID8L009065			1	☒	unk	—
66	35	2	11	3	Unk	L076-01W	XRF	ID8L009066			1	☒	unk	—
67	36	2	12	3	Unk	L076-01J	XRF	ID8L009067			1	☒	unk	—
68	37	2	1	4	Unk	L028-04W	DISS	ID8L009068			1	☒	unk	—
69	38	2	2	4	Unk	L075-05	dried & sieved	ID8L009069			1	☒	unk	—
70	39	2	3	4	Unk	L075-07	dried & sieved	ID8L009070			1	☒	unk	—
71	40	2	4	4	QC	CCV7		ID8L009071			1	☒	CCV	None
72	41	2	5	4	QC	CCB7		ID8L009072			1	☒	3XIDL	None
73	42	2	6	4	QC	IPL016SB		ID8L009073			1	☒	1/2LOQ	None
74	43	2	7	4	QC	IPL016SL		ID8L009074			1	☒	LCS	None
75	44	2	8	4	QC	IPL016SC		ID8L009075			1	☒	LCS	None
76	45	2	9	4	Unk	L076-04A	dried & sieved	ID8L009076			1	☒	unk	—
77	46	2	10	4	Unk	L076-04	dried & sieved	ID8L009077			1	☒	unk	—
78	47	2	11	4	Unk	L076-04J	dried & sieved	ID8L009078			1	☒	unk	—

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	48	2	12	4	Unk	L076-04M	dried & sieved	ID8L009079			1	☒	unk	---
80	49	2	1	5	Unk	L076-04S	dried & sieved	ID8L009080			1	☒	unk	---
81	50	2	2	5	Unk	L076-01	dried & sieved	ID8L009081			1	☒	unk	---
82	51	2	3	5	QC	CCV8	^Se	ID8L009082			1	☒	CCV	None
83	52	2	4	5	QC	CCB8		ID8L009083			1	☒	3XIDL	None
84	63	3	3	1	QC	IPL012WB		ID8L009084			1	☒	1/2LOQ	None
85	64	3	4	1	QC	IPL012WL		ID8L009085			1	☒	LCS	None
86	65	3	5	1	QC	IPL012WC		ID8L009086			1	☒	LCS	None
87	66	3	6	1	Unk	L007-03A		ID8L009087			1	☒	unk	---
88	67	3	7	1	Unk	L007-03		ID8L009088			1	☒	unk	---
89	68	3	8	1	Unk	L007-03J		ID8L009089			1	☒	unk	---
90	69	3	9	1	Unk	L007-03M		ID8L009090			1	☒	unk	---
91	70	3	10	1	Unk	L007-03S		ID8L009091			1	☒	unk	---
92	71	3	11	1	Unk	L007-04		ID8L009092			1	☒	unk	---
93	72	3	12	1	Unk	L007-05		ID8L009093			1	☒	unk	---
94	73	3	1	2	QC	CCV9		ID8L009094			1	☒	CCV	None
95	74	3	2	2	QC	CCB9		ID8L009095			1	☒	3XIDL	None
96	75	3	3	2	Unk	L030-13		ID8L009096			1	☒	unk	---
97	76	3	4	2	Unk	L005-03		ID8L009097			1	☒	unk	---
98	77	3	5	2	Unk	L005-04		ID8L009098			1	☒	unk	---
99	78	3	6	2	Unk	L005-04M		ID8L009099			1	☒	unk	---
100	79	3	7	2	Unk	L005-04S		ID8L009100			1	☒	unk	---
101	80	3	8	2	Unk	L005-13		ID8L009101			1	☒	unk	---
102	81	3	9	2	Unk	L005-14		ID8L009102			1	☒	unk	---
103	82	3	10	2	QC	ICSA2		ID8L009103			1	☒	ICSA	None
104	83	3	11	2	QC	ICSAB2		ID8L009104			1	☒	ICSAB	None
105	84	3	12	2	QC	CCV10		ID8L009105			1	☒	CCV	None
106	85	3	1	3	QC	CCB10		ID8L009106			1	☒	3XIDL	None
107	86	3	2	3	Unk	K362-03T	5X TOT	ID8L009107			1	☒	unk	---
108	87	3	3	3	Unk	K362-04T	5X TOT	ID8L009108			1	☒	unk	---
109	88	3	4	3	Unk	K362-05T	5X TOT	ID8L009109			1	☒	unk	---
110	89	3	5	3	Unk	K362-03T	5X DISS	ID8L009110			1	☒	unk	---
111	90	3	6	3	Unk	K362-04T	5X DISS	ID8L009111			1	☒	unk	---
112	91	3	7	3	Unk	K362-05T	5X DISS	ID8L009112			1	☒	unk	---
113	92	3	8	3	QC	CCV11		ID8L009113			1	☒	CCV	None
114	93	3	9	3	QC	CCB11		ID8L009114			1	☒	3XIDL	None
115	94	3	10	3	Unk	L003-02T	5X TOT	ID8L009115			1	☒	unk	---
116	95	3	11	3	Unk	L003-03T	5X TOT	ID8L009116			1	☒	unk	---
117	96	3	12	3	Unk	L003-05T	5X TOT	ID8L009117			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	97	3	1	4	Unk	L003-02T	5X DISS	ID8L009118			1	☒	unk	—
119	98	3	2	4	Unk	L003-03T	5X DISS	ID8L009119			1	☒	unk	—
120	99	3	3	4	Unk	L003-05T	5X DISS	ID8L009120			1	☒	unk	—
121	100	3	4	4	QC	CCV12	Tse	ID8L009121			1	☒	CCV	None
122	101	3	5	4	QC	CCB12		ID8L009122			1	☒	3XIDL	None
123	110	3	2	5	QC	IPL017WB		ID8L009123			1	☒	1/2LOQ	None
124	111	3	3	5	QC	IPL017WL		ID8L009124			1	☒	LCS	None
125	112	3	4	5	QC	IPL017WC		ID8L009125			1	☒	LCS	None
126	113	3	5	5	Unk	L119-02A		ID8L009126			1	☒	unk	—
127	114	3	6	5	Unk	L119-02		ID8L009127			1	☒	unk	—
128	115	3	7	5	Unk	L119-02J		ID8L009128			1	☒	unk	—
129	116	3	8	5	Unk	L119-02M		ID8L009129			1	☒	unk	—
130	117	3	9	5	Unk	L119-02S		ID8L009130			1	☒	unk	—
131	118	3	10	5	Unk	L119-01		ID8L009131			1	☒	unk	—
132	119	3	11	5	QC	CCV13		ID8L009132			1	☒	CCV	None
133	120	3	12	5	QC	CCB13		ID8L009133			1	☒	3XIDL	None

ID8L009 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00147	.00002	-.00001	.00030	.00015	.00087	-.00031	.00071	.00005	-.00085	Blank
2	S20					.90920		2.7232				S20
3	S21					8.6736		24.934				S21
4	S22				.49513						.15938	S22
5	S23				4.8724						1.6534	S23
6	S24						.10459					S24
7	S25						1.0672					S25
8	S26	.27349							.87664	.15078		S26
9	S27	9.9265							8.0892	1.4327		S27
10	S28		.00564									S28
11	S29		.05511									S29
12	S30			.00142								S30
13	S31			.00571								S31
14	ICV	107.25	1.5332	1.0576	2.0156	1.4959	2.4904	2.0935	77.964	2.4603	.95416	ICV
15	ICB	.02622	.00052	.00077	.00078	.00060	.00353	.00017	.04685	.00063	.00012	ICB
16	MRLL081	.22115	.10385	.01045	.01025	.01009	.00377*	.01040	9.5739*	.01028	.00939	MRLL081
17	MRLL082	-.00808	.00009	.00084	-.00027	-.00006	-.00179	-.00012	-.00216	.00004	-.00001	MRLL082
18	ICSA1	405.63	.00748	-.00263	.00092	-.00013	.01013	.00168	485.75	.00117	-.00076	ICSA1
19	ICSAB1	419.59	1.0690	1.0846	.53262	.49315	.51305	1.0692	495.78	.48004	.47354	ICSAB1
20	CCV1	108.12	1.5435	1.0603	2.0049	1.4890	2.5166	2.0904	77.776	2.4795	.95437	CCV1
21	CCB1	.02644	.00051	.00014	.00018	.00032	.00263	.00011	.03059	.00007	.00012	CCB1
22	IPK064WB	.00449	-.00041	.00088	.00018	-.00003	-.00113	-.00006	.08928	-.00013	.00004	IPK064WB
23	IPK064WL	5.7514	2.6355	.54242	.49904	.50506	.51323	.53625	52.112	.49599	.47756	IPK064WL
24	IPK064WC	5.8734*	2.6838	.55020	.50540	.50608	.52115	.54163	52.779	.50836	.48365	IPK064WC
25	K772-01A	6.0790	2.6831	.57835	.54731	.49353	.92276	.54005	141.75	.50183	.48239	K772-01A
26	K772-01	.02781	.00360	.00004	.05364	-.00005	.47646	.00022	110.73	.00052	.00002	K772-01
27	K772-01J	.00001	.00273	.00048	.00918	.00020	.07467	.00011	19.432	.00017	.00012	K772-01J
28	ICSA2	402.50	.00736	.00149	.00098	-.00007	.01278	.00174	490.48	.00118	-.00073	ICSA2
29	ICSAB2	410.63	1.0805	1.1004	.53163	.49232	.51969	1.0716	488.29	.48242	.47167	ICSAB2
30	CCV2	107.07	1.5344	1.0520	1.9810	1.4794	2.4846	2.0794	77.670	2.4490	.94488	CCV2
31	CCB2	.03546	.00169	.00006	.00047	.00035	.00303	.00019	.25407	.00022	.00013	CCB2
32	MRLL083	.22719	.10417	.01029	.01078	.01064	.00511*	.01098	1.1720	.01082	.00989	MRLL083
33	IPL011WQ	.01802	.00091	-.00088	.00005	.00001	-.00207	-.00010	.07911	-.00012	.00008	IPL011WQ
34	IPL011WX	5.7778	2.6447	.54374	.49784	.50587	.51800	.53609	52.847	.50905	.47944	IPL011WX
35	IPL011WY	5.7905	2.6647	.54891	.50259	.50630	.51664	.54107	52.744	.50927	.48184	IPL011WY
36	L020-03A	6.1588	2.6536	.57918	.51250	.49906	1.1110	.54523	64.745	.67367	.49056	L020-03A
37	L020-03W	.12481	-.00022	.01044	.00793	-.00008	.62043	-.00005	14.490	.18387	-.00001	L020-03W
38	L020-03J	.02141	.00180	.00173	.00157	.00004	.11795	-.00006	2.9125	.03605	-.00003	L020-03J
39	L027-01T	.00115	.00156	.00100	.05960	-.00003	.05932	-.00021	23.419	.00056	.00407	L027-01T
40	L027-06T	-.00373	.00054	.00159	.09144	-.00007	.08262	-.00021	19.694	.00020	.00027	L027-06T
41	CCV3	107.25	1.5328	1.0504	1.9862	1.4755	2.4636	2.0724	77.269	2.4378	.93917	CCV3
42	CCB3	.00889	.00139	-.00028	.00042	.00040	.00289	.00017	.02233	.00016	.00012	CCB3
43	L027-01W	.04275	.00272	.01670	.62064	-.00008	.63378	.00167	222.33	.00573	.03996	L027-01W
44	L027-02W	.00957	-.00075	.00041	.00035	.00000	-.00367	-.00006	.07533	.00003	.00010	L027-02W
45	L027-04W	.01413	.00024	-.00302	.22979	-.00006	.22068	.00012	56.606	.00065	-.00061	L027-04W
46	L027-06W	.02045	.00087	.01555	.92911	-.00007	.88952	.00002	191.30	.00297	.00297	L027-06W
47	L027-07W	-.00566	-.00087	.00017	.00036	-.00007	-.00433	-.00011	-.00713	-.00025	-.00004	L027-07W
48	CCV4	105.67	1.5543	1.0987	1.9837	1.4912	2.5151	2.0681	79.505	2.6098	.91453	CCV4
49	CCB4	.03881	.00144	.00053	.00130	.00102	.00505	.00071	.05295	.00102	.00032	CCB4
50	K574-07A	5.4233	2.5221	.58636	.48863	.51103	.49763	.54339	54.601	.53782	.47522	K574-07A
51	K574-07T	.06399	.00646	.00169	.01674	.01411	.00930	.00110	1.7233	.00733	.00118	K574-07T
52	K574-07J	.00028	.00217	.00017	.00108	.00041	.00062	.00012	.07302	.00014	.00020	K574-07J
53	K574-07G	1.0683	.50563	.11422	.10628	.10443	.10123	.10887	11.276	.10582	.09615	K574-07G
54	K574-07H	1.0584	.49748	.11336	.10585	.10349	.09993	.10797	11.162	.10484	.09541	K574-07H

55	CCV5	105.68	1.5288	1.0666	1.9679	1.4896	2.4581	2.0735	79.815	2.5015	.92729	CCV5
56	CCB5	.01593	.00107	.00025	.00073	.00052	.00262	.00029	.01586	.00047	.00021	CCB5
57	L020-04T	.01007	-.01281	.00089	.00243	.00004	.08177	.00003	3.5553	1.5605	.00027	L020-04T
58	L020-05T	.01771	-.00932	.00065	.00340	.00003	.08410	-.00005	6.3820	1.1433	.00013	L020-05T
59	L028-02T	.01221	-.02123	.00115	.00397	-.00002	.06904	-.00005	7.4052	2.4576	.00028	L028-02T
60	L028-03W	.17520	.00294	.04475	.03504	-.00004	.79075	-.00044	119.69	.11308	.04066	L028-03W
61	L028-04T	-.00231	-.00864	.00151	.00284	-.00005	.06314	-.00007	5.2956	1.1749	.00000	L028-04T
62	L028-05W	.14986	-.05339	.01285	.00722	-.00010	1.0051	-.00003	56.421	5.9459	.00082	L028-05W
63	CCV6	106.10	1.5570	1.0830	1.9890	1.4833	2.4710	2.0754	78.207	2.4829	.92889	CCV6
64	CCB6	.02232	.00062	.00077	.00074	.00065	.00382	.00038	.02463	.00087	.00020	CCB6
65	L076-01A	99.288	2.5176	.60416	1.4032	.51366	.57035	.63521	93.115	.63759	.52635	L076-01A
66	L076-01W	92.935	.00952	.06185	.91388	.00662	.09531	.09259	42.565	.12652	.03482	L076-01W
67	L076-01J	18.695	.00152	.01156	.17959	.00112	.01827	.01732	8.5111	.02469	.00653	L076-01J
68	L028-04W	.03506	-.14966*	.00667	.02564	-.00009	.68353	.00009	54.836	16.386*	.00114	L028-04W
69	L075-05	83.299	.01259	.09987	1.1990	.00759	.03728	.02659	103.05	.19287	.06207	L075-05
70	L075-07	88.226	.01225	.09307	1.0394	.00682	.03955	.00895	22.285	.25806	.07730	L075-07
71	CCV7	104.93	1.5781	1.0972	1.9710	1.4826	2.4678	2.0870	78.807	2.4707	.93525	CCV7
72	CCB7	.00350	.00077	-.00057	.00023	.00014	.00203	.00005	.00216	.00002	.00003	CCB7
73	IPL016SB	.02318	.00153	-.00115	.00048	.00019	.00031	.00002	.02152	.00032	.00005	IPL016SB
74	IPL016SL	5.2167	2.5762	.53670	.49729	.50338	.45901	.55092	54.416	.51139	.49114	IPL016SL
75	IPL016SC	5.3356	2.6083	.54961	.50531	.51370	.46787	.55990	53.782	.52092	.49836	IPL016SC
76	L076-04A	80.961	2.5433	.60584	1.5782	.50574	.48541	.70180	102.98	.61935	.56977	L076-04A
77	L076-04	75.729	.01285	.06546	1.1201	.00696	.02222	.16293	53.780	.12001	.08059	L076-04
78	L076-04J	15.337	.00223	.01288	.21594	.00134	.00329	.02988	10.633	.02349	.01507	L076-04J
79	L076-04M	120.69	2.4767	.59895	1.6616	.49744	.45351	.69460	105.77	.64126	.56356	L076-04M
80	L076-04S	109.30	2.4478	.59756	1.6412	.49825	.43237	.69817	105.66	.63239	.56345	L076-04S
81	L076-01	74.819	.01337	.07522	1.0912	.00640	.02383	.12073	52.405	.12163	.04272	L076-01
82	CCV8	105.80	1.5799	1.1041*	1.9848	1.4884	2.4963	2.0897	78.799	2.5030	.93654	CCV8
83	CCB8	.00173	.00084	-.00014	-.00002	.00010	.00222	.00003	-.00565	-.00017	.00009	CCB8
84	IPL012WB	.01930	.00016	-.00004	.00003	-.00002	-.00158	-.00007	.01726	-.00021	.00020	IPL012WB
85	IPL012WL	5.6442	2.7104	.56429	.49325	.50486	.50546	.53296	52.981	.50702	.46892	IPL012WL
86	IPL012WC	5.7105	2.7227	.57107	.49976	.50634	.51072	.53495	52.895	.51042	.47398	IPL012WC
87	L007-03A	6.7122	2.7667	.60162	.58859	.50556	.82789	.54872	143.66	.52290	.48518	L007-03A
88	L007-03	.79417	.00118	.00154	.08228	.00015	.30579	.00017	96.864	.01196	.00123	L007-03
89	L007-03J	.14822	.00187	-.00028	.01651	.00020	.05699	.00003	19.677	.00255	.00022	L007-03J
90	L007-03M	6.6077	2.7899	.59076	.58689	.50226	.84391	.54287	147.66	.51941	.47705	L007-03M
91	L007-03S	6.6297	2.7540	.58214	.59019	.50299	.84082	.54228	147.16	.51607	.47722	L007-03S
92	L007-04	.00862	.00073	.00185	.04591	-.00005	.08470	.00002	45.817	.00422	-.00008	L007-04
93	L007-05	.00178	-.00006	.00444	.04108	-.00006	.01336	-.00002	22.764	.00285	-.00008	L007-05
94	CCV9	105.34	1.5630	1.0889	2.0039	1.4928	2.4578	2.0970	78.151	2.4369	.93922	CCV9
95	CCB9	.02632	.00192	.00045	.00061	.00053	.00295	.00037	.03036	.00056	.00024	CCB9
96	L030-13	.05442	-.00044	.00181	.38691	.00008	.32840	.00075	146.94	.00296	.00013	L030-13
97	L005-03	.00791	-.00052	.00247	.36497	-.00007	.09185	.00005	140.58	.00180	.00034	L005-03
98	L005-04	.00884	-.00044	.00109	.25217	.00000	.03999	.00010	88.986	.00061	.00010	L005-04
99	L005-04M	5.9469	2.7667	.58539	.76459	.51641	.56871	.54983	140.92	.51739	.48347	L005-04M
100	L005-04S	5.8813	2.7484	.57984	.75619	.50937	.57056	.54187	139.57	.51653	.47716	L005-04S
101	L005-13	.14772	.00278	.01615	.19383	-.00005	.02382	.00041	26.014	.00115	.00025	L005-13
102	L005-14	.04125	-.00023	.00105	.59600	-.00004	.05811	.00016	107.35	.00243	.00000	L005-14
103	ICSA2	407.62	.00874	-.00204	.00138	.00004	.00983	-.00046	495.95	.00139	-.00052	ICSA2
104	ICSA82	403.72	1.0874	1.1247	.53187	.49437	.51386	1.0670	491.85	.48472	.46450	ICSA82
105	CCV10	106.44	1.5610	1.0884	2.0044	1.4971	2.4852	2.0915	79.006	2.4807	.93908	CCV10
106	CCB10	.03932	.00110	-.00110	.00045	.00039	.00211	.00016	.05419	.00022	.00001	CCB10
107	K362-03T	.03786	-.20661*	.00418	.00700	-.00015	.18688	.00002	16.673	22.494*	.00183	K362-03T
108	K362-04T	.05341	-.21247*	.00497	.01197	-.00016	.20396	-.00007	13.546	23.100*	.00175	K362-04T
109	K362-05T	.11224	-.13378*	.00392	.00779	-.00011	.17131	-.00006	13.712	14.500*	.00133	K362-05T
110	K362-03T	.00459	-.20179*	.00497	.00621	-.00012	.18102	.00003	16.396	21.962*	.00177	K362-03T
111	K362-04T	.00282	-.21546*	.00541	.01125	-.00017	.19893	-.00004	13.491	23.232*	.00175	K362-04T

112	K362-05T	.00262	-.13328*	.00447	.00670	-.00010	.16727	.00000	12.104	14.241*	.00107	K362-05T
113	CCV11	105.38	1.5486	1.0813	2.0189	1.4986	2.4630	2.0963	78.283	2.4547	.94175	CCV11
114	CCB11	.02253	.00166	-.00050	.00065	.00049	.00181	.00024	.01436	.00219	.00014	CCB11
115	L003-02T	.03783	-.04186	.00288	.00099	-.00004	.18716	-.00004	6.7929	4.6212	.00033	L003-02T
116	L003-03T	.02474	-.24615*	.00519	.00638	-.00015	.21329	.00001	10.919	26.465*	.00213	L003-03T
117	L003-05T	.04505	-.03488	.00041	.00779	-.00002	.14045	-.00006	12.812	3.8434	.00035	L003-05T
118	L003-02T	.00281	-.04216	.00150	.00010	-.00004	.18305	-.00007	6.4416	4.6503	.00042	L003-02T
119	L003-03T	-.00044	-.22826*	.00545	.00588	-.00014	.20029	.00004	9.9032	24.701*	.00192	L003-03T
120	L003-05T	-.00023	-.03698	.00106	.00708	-.00003	.14289	-.00004	13.099	4.1154	.00032	L003-05T
121	CCV12	105.76	1.5691	1.1002*	2.0032	1.4930	2.4934	2.0896	78.318	2.4939	.93709	CCV12
122	CCB12	.02524	.00125	-.00003	.00065	.00052	.00209	.00029	.01751	.00167	.00014	CCB12
123	IPL017WB	.01967	-.00041	-.00042	.00020	.00001	.00257	.00000	.00279	.00020	.00013	IPL017WB
124	IPL017WL	6.1782*	2.8452	.61034*	.53716	.55444	.56842	.56942	56.412	.54180	.49823	IPL017WL
125	IPL017WC	6.3446*	2.7694	.63120*	.54134	.55753	.59624	.54584	54.403	.57144	.47326	IPL017WC
126	L119-02A	6.2541	2.6882	.61326	.51919	.52107	.67767	.54844	68.912	.51636	.48175	L119-02A
127	L119-02	.37552	.00075	.01613	.00242	.00014	.15217	.00002	18.102	.00033	.00063	L119-02
128	L119-02J	.06599	.00076	.00314	.00061	.00011	.02598	-.00004	3.5651	.00030	.00026	L119-02J
129	L119-02M	6.1402	2.7581	.59349	.51049	.51643	.67786	.54439	70.245	.50216	.47395	L119-02M
130	L119-02S	6.3704	2.8684	.61804	.52930	.53554	.70247	.56667	72.877	.52003	.49457	L119-02S
131	L119-01	.75758	-.02058	5.6996	.08347	.00000	.34661	.00004	23.363	.00055	.00019	L119-01
132	CCV13	105.04	1.5440	1.0793	2.0158	1.4972	2.4480	2.1007	77.717	2.4392	.93710	CCV13
133	CCB13	.02346	.00189	.00027	.00070	.00054	.00254	.00030	.01978	.00054	.00028	CCB13
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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ID8L009 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00144	.00003	.00014	-.00012	.00000	.00004	.00006	-.00027	.00040	.00000	Blank
2	S20			.19840			.11890					S20
3	S21			1.9342			1.1444					S21
4	S22	.36457	.06312									S22
5	S23	3.5545	2.4122									S23
6	S24							.74980				S24
7	S25							7.4544				S25
8	S26								.78074	.33647		S26
9	S27								7.2261	3.2774		S27
10	S28					.11020						S28
11	S29					.45176						S29
12	S30				.02829						.00157	S30
13	S31				.14038						.00625	S31
14	ICV	2.5466	24.615	2.4001	.53369	56.001	2.3720	2.5265	2.5676	62.111	1.0642	ICV
15	ICB	.00065	.00520	.00041	.00100	.02796	.00101	.00052	.00005	.02442	-.00057	ICB
16	MRLL081	.01033	.21332	.00956	.01138	.98151	.01081	.01040	.01060	1.0177	.01000	MRLL081
17	MRLL082	.00005	-.00219	-.00060	.00112	.00017	-.00013	-.00005	-.00017	-.05532	.00010	MRLL082
18	ICSA1	.00189	186.58	.00142	.00672	187.15	.00062	-.00189	-.00124	.05763	.00019	ICSA1
19	ICSAB1	.53528	190.60	.94307	1.1164	194.29	.46336	1.0395	1.0298	83.271	1.0922	ICSAB1
20	CCV1	2.5611	24.819	2.3963	.53271	55.760	2.3658	2.5200	2.5685	62.187	1.0735	CCV1
21	CCB1	.00011	.01063	-.00050	.00112	.02231	.00051	.00030	-.00015	.00755	-.00011	CCB1
22	IPK064WB	.00056	.01834	-.00050	.00086	.01116	.00012	.00000	-.00006	-.07460	-.00051	IPK064WB
23	IPK064WL	.50928	5.2296	.50302	.00141*	47.399	.48500	.50834	.52903	52.341	.54160	IPK064WL
24	IPK064WC	.51970	5.3275	.50699	.00095*	47.813	.49281	.51267	.53488	53.279	.55026	IPK064WC
25	K772-01A	.53188	5.2448	.51735	.00871	83.542	.50672	.50466	.53090	71.671	.58271	K772-01A
26	K772-01	.00645	-.00048	.01870	.00968	43.259	.02354	.00524	.00254	21.327	-.00037	K772-01
27	K772-01J	.00122	-.00033	.00245	.00229	7.3992	.00420	.00091	.00035	3.3591	-.00072	K772-01J
28	ICSA2	.00184	186.81	-.00032	.00633	187.61	.00066	-.00184	-.00113	.06167	.00162	ICSA2
29	ICSAB2	.53489	187.78	.94362	1.1111	188.59	.46263	1.0412	1.0275	82.754	1.0961	ICSAB2
30	CCV2	2.5174	24.720	2.3891	.52721	55.608	2.3415	2.5103	2.5489	61.857	1.0585	CCV2
31	CCB2	.00045	.01469	-.00079	.00105	.04285	.00053	.00044	.00011	.02570	.00024	CCB2
32	MRLL083	.01078	.22211	.01012	.01194	.98186	.01089	.01062	.01107	1.0109	.01137	MRLL083
33	IPL011WQ	.00015	.00555	-.00068	.00121	.03569	.00013	.00002	-.00015	-.03340	-.00034	IPL011WQ
34	IPL011WX	.51121	5.3014	.49996	.00141*	47.968	.48674	.51161	.52979	52.779	.53829	IPL011WX
35	IPL011WY	.51308	5.3489	.50557	.00115*	47.841	.48887	.51482	.53348	53.188	.54247	IPL011WY
36	L020-03A	.53363	5.3603	.51406	.01032	54.456	.50130	.54640	.54002	65.185	.56072	L020-03A
37	L020-03W	.00248	.14978	.01107	.01007	8.1873	.01243	.03590	.00181	11.737	.00008	L020-03W
38	L020-03J	.00078	.03100	.00210	.00278	1.6278	.00246	.00700	.00010	2.1769	.00008	L020-03J
39	L027-01T	.00056	6.0528	.00297	.00411	49.334	2.7874	-.00031	.00610	5.5140	-.00057	L027-01T
40	L027-06T	.00025	3.1265	.00217	.00257	37.571	1.1117	-.00020	.00033	2.9012	-.00041	L027-06T
41	CCV3	2.5009	24.658	2.3826	.52689	55.522	2.3333	2.4943	2.5326	61.758	1.0573	CCV3
42	CCB3	.00043	.00040	-.00071	.00159	.02112	.00073	.00038	-.00013	.02156	-.00022	CCB3
43	L027-01W	.00270	58.020	.03811	.03639	510.60	26.656	-.00190	.06349	66.285	.00023	L027-01W
44	L027-02W	.00042	.02220	-.00048	.00108	.15866	.00896	.00005	.00046	.30232	.00026	L027-02W
45	L027-04W	.00127	.06250	.04414	.00233	184.64	1.1784	-.00037	.00247	7.3824	-.00009	L027-04W
46	L027-06W	.00140	30.825	.03018	.02240	401.90	10.858	-.00131	.00807	33.462	-.00113	L027-06W
47	L027-07W	.00008	.00120	-.00073	.00036	.03896	.00100	-.00006	.00038	.22861	-.00067	L027-07W
48	CCV4	2.4187	26.375	2.3755	.52480	57.459	2.3756	2.3910	2.4842	62.547	1.0865	CCV4
49	CCB4	.00096	.01201	.00023	.00113	.07212	.00231	.00103	.00077	.05927	.00036	CCB4
50	K574-07A	.48106	5.5504	.49874	.00159	50.251	.50450	.49209	.52642	51.767	.62188	K574-07A
51	K574-07T	.00616	.08037	.00096	.00081	1.4812	.01463	.00120	.00108	1.2930	.00621	K574-07T
52	K574-07J	.00006	.00301	.00030	.00090	.05292	.00075	.00023	-.00007	.01480	.00121	K574-07J
53	K574-07G	.09805	1.0953	.10036	.00103	10.010	.10202	.10141	.10704	10.239	.12807	K574-07G
54	K574-07H	.09702	1.0855	.10034	.00072	9.9209	.10059	.10035	.10626	10.171	.12748	K574-07H

55	CCV5	2.4323	25.340	2.3795	.51831	57.852	2.3763	2.4567	2.5129	62.016	1.0676	CCV5
56	CCB5	.00050	.00331	-.00017	.00091	.02221	.00077	.00050	.00032	-.00129	.00001	CCB5
57	L020-04T	.00025	.01648	.00091	.00370	2.4182	.00054	.00460	.00004	1.9302	-.00064	L020-04T
58	L020-05T	.00065	.08320	.00131	.00396	4.3760	.02279	.00109	.00077	1.5129	-.00074	L020-05T
59	L028-02T	.00012	.02549	.00040	.00366	5.3708	.00302	.00110	.00007	1.4876	-.00056	L028-02T
60	L028-03W	.00220	132.57	.03907	.06827	80.594	6.3998	.00161	.02455	24.069	.00522	L028-03W
61	L028-04T	.00060	.05032	.00095	.00380	4.1801	.00318	.00032	-.00015	1.3599	.00051	L028-04T
62	L028-05W	.00211	2.4252	.01355	.04491	73.771	.71309	.00281	.00145	37.048	.00249	L028-05W
63	CCV6	2.4632	25.099	2.3825	.52520	56.497	2.3489	2.4508	2.5156	62.010	1.0856	CCV6
64	CCB6	.00060	.00729	.00019	.00164	.03945	.00098	.00055	.00023	.06790	.00005	CCB6
65	L076-01A	.89362	101.85	1.4458	.05034	63.096	3.1574	.51814	.61172	60.635	.53986	L076-01A
66	L076-01W	.37463	100.26	.98734	.04979	15.863	2.7585	.00411	.07504	8.1731	.00728	L076-01W
67	L076-01J	.07210	20.167	.19697	.00935	3.1882	.55351	.00050	.01403	1.4787	.00096	L076-01J
68	L028-04W	.00161	.04649	.01148	.04144	44.096	.00503	.00424	.00043	15.660	.00105	L028-04W
69	L075-05	.10138	197.80	.55661	.04104	6.1441	3.6125	.01052	.08591	8.2733	.00686	L075-05
70	L075-07	.08265	212.99	1.7614	.04232	6.0725	4.0128	.00912	.07703	9.2561	.00685	L075-07
71	CCV7	2.4634	24.962	2.3967	.52157	57.138	2.3546	2.4756	2.5271	61.689	1.1009*	CCV7
72	CCB7	.00033	.00417	-.00040	.00151	.01535	.00040	.00026	-.00021	.00491	-.00048	CCB7
73	IPL016SB	.00040	.01345	-.00084	.00073	.02622	.00083	.00045	-.00008	.00274	.00038	IPL016SB
74	IPL016SL	.49455	5.2129	.50056	.00079*	49.631	.49129	.53551	.54086	52.977	.52471	IPL016SL
75	IPL016SC	.50329	5.3092	.51053	.00113*	49.062	.49826	.53827	.54856	52.489	.53545	IPL016SC
76	L076-04A	.72642	106.39	1.4761	.03455	57.033	5.3616	.53024	.62257	57.272	.53860	L076-04A
77	L076-04	.21872	105.59	1.0314	.03511	10.554	5.1164	.00387	.08766	5.4904	.00757	L076-04
78	L076-04J	.04180	21.239	.20076	.00730	2.1057	1.0149	.00054	.01583	.98152	.00152	L076-04J
79	L076-04M	.73024	121.41	1.5041	.05665	59.984	5.5946	.53144	.62510	59.171	.51900	L076-04M
80	L076-04S	.72648	117.83	1.5083	.04852	59.374	5.5642	.52578	.62110	58.009	.51649	L076-04S
81	L076-01	.44877	114.41	1.2460	.03613	17.626	3.2470	.00523	.08413	7.1553	.00836	L076-01
82	CCV8	2.4972	25.011	2.3927	.52430	57.164	2.3711	2.4701	2.5345	62.088	1.1111*	CCV8
83	CCB8	.00023	.00078	-.00036	.00036	.00555	.00013	.00024	-.00021	.01237	-.00063	CCB8
84	IPL012WB	.00019	.00505	-.00051	.00153	.02019	.00009	-.00001	-.00012	-.03810	-.00025	IPL012WB
85	IPL012WL	.49628	5.2493	.49618	.00161*	48.769	.48722	.50042	.52057	52.506	.55997	IPL012WL
86	IPL012WC	.50352	5.3206	.49945	.00156*	48.569	.48979	.50125	.52487	53.358	.56402	IPL012WC
87	L007-03A	.52377	5.6942	.52185	.02700	72.299	.59710	.50958	.54312	59.346	.59722	L007-03A
88	L007-03	.00602	.37349	.01419	.02612	24.217	.10176	.00203	.01059	3.9556	.00062	L007-03
89	L007-03J	.00148	.07569	.00210	.00617	4.9049	.02085	.00041	.00194	.70707	-.00069	L007-03J
90	L007-03M	.51823	5.6265	.51239	.02730	73.605	.59095	.51539	.53625	59.620	.58287	L007-03M
91	L007-03S	.51691	5.6044	.51141	.02729	73.796	.59162	.51439	.53625	60.265	.57341	L007-03S
92	L007-04	.00097	-.00478	.00897	.01692	10.976	.00020	.00185	.00078	2.9486	.00014	L007-04
93	L007-05	.00055	.00155	.00828	.01084	6.0463	.00030	.00453	.00061	1.9951	.00075	L007-05
94	CCV9	2.4797	24.541	2.4047	.53160	56.897	2.3591	2.4886	2.5391	62.623	1.0944	CCV9
95	CCB9	.00088	.00434	.00005	.00182	.02783	.00090	.00070	.00024	.06756	-.00112	CCB9
96	L030-13	.00307	.11140	.01784	.05349	45.953	.01023	.00093	.00329	10.217	-.00186	L030-13
97	L005-03	.00130	1.5058	.00984	.02191	29.101	.31629	.00127	.00333	2.4950	.00072	L005-03
98	L005-04	.00085	.21148	.00689	.02845	23.582	.67234	.00280	.00184	4.1407	-.00053	L005-04
99	L005-04M	.52105	5.5428	.51727	.02985	73.369	1.1530	.51430	.53646	60.344	.58102	L005-04M
100	L005-04S	.51713	5.4996	.50906	.03021	72.214	1.1466	.51040	.52950	59.500	.57263	L005-04S
101	L005-13	.00283	.25470	.00685	1.0673	10.586	.05230	.02050	.00290	41.223	-.00079	L005-13
102	L005-14	.00113	.03419	.01131	.01406	16.453	.00970	.00013	.00003	3.1116	-.00041	L005-14
103	ICSA2	.00203	190.24	.00102	.00752	192.14	.00097	-.00145	-.00092	.08375	.00047	ICSA2
104	ICSAB2	.52351	187.80	.94282	1.1059	192.09	.46525	1.0189	1.0127	83.735	1.1247	ICSAB2
105	CCV10	2.4995	24.874	2.3975	.53050	57.372	2.3781	2.4794	2.5371	62.962	1.0975	CCV10
106	CCB10	.00042	.01494	-.00004	.00140	.04208	.00063	.00032	-.00002	.08260	-.00009	CCB10
107	K362-03T	.00058	.08802	-.00188	.00972	16.693	.00407	.00167	-.00022	5.6431	.00024	K362-03T
108	K362-04T	.00042	.13256	-.00167	.00966	14.313	.00377	.00310	-.00045	7.5154	.00103	K362-04T
109	K362-05T	.00057	.14575	.00138	.01020	11.294	.00275	.00125	.00004	5.5118	.00151	K362-05T
110	K362-03T	.00028	.03804	-.00230	.00944	16.496	.00259	.00150	-.00067	5.5771	.00045	K362-03T
111	K362-04T	.00025	.03967	-.00132	.00940	14.168	.00267	.00283	-.00067	7.3812	.00160	K362-04T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	K362-05T	.00028	.02205	.00040	.00954	11.033	.00083	.00128	-.00002	5.4486	.00022	K362-05T
113	CCV11	2.5023	24.501	2.4015	.53310	57.031	2.3771	2.4908	2.5455	63.075	1.0889	CCV11
114	CCB11	.00058	.00583	.00022	.00139	.02812	.00067	.00062	-.00001	.06958	.00070	CCB11
115	L003-02T	.00065	.04210	.00083	.00945	11.533	.00521	.00118	-.00004	7.2109	-.00007	L003-02T
116	L003-03T	.00050	.07202	-.00213	.01211	15.481	.00300	.00245	-.00059	9.8347	.00077	L003-03T
117	L003-05T	.00050	.04745	.00182	.00760	8.9368	.00384	.00113	.00052	3.2600	.00060	L003-05T
118	L003-02T	.00056	.00131	.00069	.00926	11.288	.00403	.00132	-.00024	7.0956	.00140	L003-02T
119	L003-03T	.00028	.04266	-.00209	.01152	14.233	.00197	.00236	-.00063	9.3264	.00107	L003-03T
120	L003-05T	.00052	.00279	.00192	.00803	9.3356	.00254	.00120	.00046	3.3279	.00030	L003-05T
121	CCV12	2.5068	24.778	2.3906	.53150	57.092	2.3672	2.4717	2.5340	62.951	1.1074*	CCV12
122	CCB12	.00065	.00342	-.00008	.00142	.03850	.00077	.00061	.00013	.06052	-.00037	CCB12
123	IPL017WB	.00031	.00012	-.00046	.00111	.02281	.00024	.00012	-.00022	.02627	.00004	IPL017WB
124	IPL017WL	.54414	5.6061	.53100	.00125*	51.883	.52489	.51723	.55261	57.279	.61745*	IPL017WL
125	IPL017WC	.57241	5.7066	.55881	.00134*	50.160	.52531	.47039	.54362	62.838*	.64755*	IPL017WC
126	L119-02A	.52696	5.4924	.50693	.00390	60.477	.55567	.49305	.53365	58.919	.60066	L119-02A
127	L119-02	.00133	.21150	.00066	.00327	13.215	.05415	-.00008	.00095	3.2754	-.00074	L119-02
128	L119-02J	.00032	.03969	.00021	.00173	2.5931	.01057	.00001	.00007	.65463	-.00032	L119-02J
129	L119-02M	.50998	5.3796	.50001	.00408	61.915	.54145	.51330	.52713	57.525	.57584	L119-02M
130	L119-02S	.52926	5.5862	.52020	.00371	64.036	.56163	.53385	.54939	59.739	.60088	L119-02S
131	L119-01	.00272	.33764	.01683	.00340	15.315	.53953	.00827	.00173	3.2292	.00020	L119-01
132	CCV13	2.4842	24.405	2.4016	.53104	56.504	2.3579	2.4915	2.5430	62.603	1.0867	CCV13
133	CCB13	.00073	.00327	-.00010	.00128	.03034	.00083	.00059	.00011	.06496	-.00016	CCB13

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00187	-.00009	-.00029	.00006	.00000	-.00011	.00092	Blank
2	S20									S20
3	S21									S21
4	S22							.15857		S22
5	S23							1.5510		S23
6	S24		1.0722							S24
7	S25		6.2386							S25
8	S26									S26
9	S27									S27
10	S28				.13359					S28
11	S29				1.2934					S29
12	S30	.04485		.13266		.02502	.01616		.59781	S30
13	S31	.22111		.65680		.12234	.08031		5.7832	S31
14	ICV	.51324	62.666	.49632	2.3691	.49776	.48937	1.4722	2.6431	ICV
15	ICB	.00014	.02558	.00024	.00091	.00032	.00025	.00040	.00201	ICB
16	MRLL081	.01008	1.0948	.01295*	.01039	.00030	.01078	.01018	.21773*	MRLL081
17	MRLL082	-.00001	-.01719	.00006	-.00033	.00080	.00021	-.00016	.02142	MRLL082
18	ICSA1	.00031	.07811	.02090	-.00211	.00300	.00153	-.00062	.00194	ICSA1
19	ICSAB1	1.1225	82.821	.51690	.90854	.98509	.96804	.49184	1.0671	ICSAB1
20	CCV1	.51681	62.743	.49452	2.3667	.49845	.48612	1.4828	2.6384	CCV1
21	CCB1	-.00002	.02129	.00018	.00005	.00061	.00020	.00016	-.00055	CCB1
22	IPK064WB	.00002	.00346	.00015	.00017	.00024	.00059	.00000	.01565*	IPK064WB
23	IPK064WL	.52373	52.651	.47990	.50592	.50036	.50451	.51030	.54544	IPK064WL
24	IPK064WC	.53695	53.475	.48656	.51160	.50603	.50706	.51922	.55161	IPK064WC
25	K772-01A	.53271	234.81	.95473	.49059	.49007	.48741	.51776	.61524	K772-01A
26	K772-01	.00032	218.89	.58337	-.00002	.00051	.00166	.00292	.07625	K772-01
27	K772-01J	.00003	37.651	.10087	-.00005	.00008	.00038	.00060	.01726	K772-01J
28	ICSA2	.00007	.17168	.02120	-.00234	.00244	.00167	-.00072	.00131	ICSA2
29	ICSAB2	1.1298	82.479	.51611	.90933	.99831	.97110	.49460	1.0734	ICSAB2
30	CCV2	.50877	62.232	.48823	2.3598	.49941	.48343	1.4727	2.6317	CCV2
31	CCB2	-.00001	.03842	.00024	.00018	.00070	.00048	.00020	.00968	CCB2
32	MRLL083	.01082	1.0756	.01077	.01135	.00088	.01060	.01084	.01612*	MRLL083
33	IPL011WQ	-.00002	.01084	.00041	.00020	.00059	.00010	-.00005	.00750	IPL011WQ
34	IPL011WX	.52856	52.987	.48243	.50351	.50180	.50702	.51709	.54993	IPL011WX
35	IPL011WY	.53089	53.284	.48647	.50767	.50715	.50739	.51909	.55295	IPL011WY
36	L020-03A	.53579	326.84	.61762	.48758	.49721	.49801	.51883	.58768	L020-03A
37	L020-03W	-.00009	282.32	.14822	.00043	.00069	.00478	.00473	.02790	L020-03W
38	L020-03J	-.00002	57.590	.02960	-.00018	.00059	.00124	.00097	.00869	L020-03J
39	L027-01T	-.00005	268.48	.21816	-.00036	.00093	.00086	-.00013	.00195	L027-01T
40	L027-06T	-.00018	83.755	.16855	-.00105	.00060	-.00003	-.00019	.00107	L027-06T
41	CCV3	.50533	62.230	.48785	2.3532	.49858	.48138	1.4673	2.6328	CCV3
42	CCB3	.00006	.06381	.00017	.00012	-.00005	.00011	.00017	.00171	CCB3
43	L027-01W	.00095	2050.2*	2.2298	-.00413	.00112	.00347	.00306	.00525	L027-01W
44	L027-02W	-.00002	1.4339	.00077	.00038	.00011	.00017	.00000	.00295	L027-02W
45	L027-04W	.00003	484.67	.46338	-.00006	.00012	.00077	-.00058	.00297	L027-04W
46	L027-06W	.00018	793.86*	1.6898	-.00174	.00006	.00274	.00071	.00309	L027-06W
47	L027-07W	.00011	.43937	.00027	.00048	-.00001	.00021	-.00029	.00029	L027-07W
48	CCV4	.51496	63.017	.48752	2.2777	.49756	.48727	1.5181	2.7874*	CCV4
49	CCB4	.00034	.24501	.00039	.00103	.00024	.00030	.00057	.00100	CCB4
50	K574-07A	.50053	51.915	.45722	.48291	.48819	.49294	.52737	.59479	K574-07A
51	K574-07T	.00529	1.9601	.01346	-.00298	.00354	.01348	.00651	.00441	K574-07T
52	K574-07J	.00005	.23211	.00028	-.00059	.00102	.00015	.00001	.00204	K574-07J
53	K574-07G	.10050	11.047	.09730	.09804	.10283	.10286	.10499	.11827	K574-07G
54	K574-07H	.09918	10.954	.09624	.09685	.10159	.10154	.10377	.11969	K574-07H

55	CCV5	.50356	62.176	.48255	2.3219	.49712	.48509	1.4835	2.7074	CCV5
56	CCB5	.00011	.07824	.00016	.00093	.00048	.00018	.00018	.00049	CCB5
57	L020-04T	-.00003	84.298	.04743	.00057	.00039	.00145	.00122	.00175	L020-04T
58	L020-05T	.00011	96.223	.08208	.00025	.00028	.00107	.00025	.00161	L020-05T
59	L028-02T	.00016	76.345	.09555	.00060	-.00006	.00164	.00049	-.00125	L028-02T
60	L028-03W	.00024	808.03*	2.2680	-.00393	.00415	.01736	.00282	.00835	L028-03W
61	L028-04T	.00011	79.092	.07500	.00049	.00061	.00043	.00063	.00193	L028-04T
62	L028-05W	.00004	1030.5*	.56692	.00120	.00088	.01672	.00194	.00006	L028-05W
63	CCV6	.50745	63.160	.48581	2.3191	.49510	.48554	1.4743	2.6967	CCV6
64	CCB6	.00014	.28291	.00031	.00099	.00014	.00010	.00035	.00007	CCB6
65	L076-01A	.51424	53.216	.56220	.48512	.50583	1.4786	.73811	18.388	L076-01A
66	L076-01W	-.00013	.67814	.08756	-.00119	.02060	1.0048	.23098	18.254	L076-01W
67	L076-01J	-.00014	.14715	.01700	-.00021	.00428	.19742	.04497	3.6140	L076-01J
68	L028-04W	.00032	778.41*	.77191	.00549	-.00040	.00597	.00729	-.00567*	L028-04W
69	L075-05	-.00029	1.5875	.14019	-.00302	.02203	.71976	.29961	4.2325	L075-05
70	L075-07	-.00024	.48215	.10250	-.00200	.02096	.83278	.33068	2.0100	L075-07
71	CCV7	.50996	61.947	.48251	2.3449	.49472	.48472	1.4730	2.6809	CCV7
72	CCB7	.00005	.07045	.00013	-.00001	.00025	.00020	.00001	.00029	CCB7
73	IPL016SB	-.00016	.08722	.00036	-.00065	.02177	.00039	.00011	.00354	IPL016SB
74	IPL016SL	.49890	53.399	.47575	.49222	.52475	.50621	.51554	.57298	IPL016SL
75	IPL016SC	.51153	52.783	.48102	.50050	.52428	.50998	.52472	.58261	IPL016SC
76	L076-04A	.50068	52.659	.56524	.48010	.50821	.93333	.76376	25.770	L076-04A
77	L076-04	-.00044	.73497	.09191	-.00364	.01892	.45562	.26519	26.028	L076-04
78	L076-04J	-.00019	.14475	.01774	-.00064	.00348	.08764	.05150	5.1221	L076-04J
79	L076-04M	.50690	53.642	.59252	.46823	.51286	.95538	.78889	26.920	L076-04M
80	L076-04S	.50595	53.306	.58074	.47128	.50913	.80776	.77834	26.815	L076-04S
81	L076-01	-.00022	.63810	.09261	-.00234	.01784	.58925	.23915	22.935	L076-01
82	CCV8	.51675	62.287	.48769	2.3392	.49131	.48519	1.4753	2.6819	CCV8
83	CCB8	.00004	.03440	.00009	.00033	.00033	.00002	-.00018	.00081	CCB8
84	IPL012WB	.00004	.03448	.00034	.00010	.00026	.00052	-.00014	.00646	IPL012WB
85	IPL012WL	.51982	52.523	.47515	.49322	.49062	.50369	.50697	.55111	IPL012WL
86	IPL012WC	.52717	53.081	.47993	.49540	.49049	.50631	.51202	.55392	IPL012WC
87	L007-03A	.53576	187.89	3.1008	.49408	.49609	.50960	.53263	.61911	L007-03A
88	L007-03	-.00013	137.91	2.6840	.00032	.00061	.01112	.01355	.05433	L007-03
89	L007-03J	.00004	27.848	.54439	.00011	.00039	.00270	.00270	.01130	L007-03J
90	L007-03M	.54478	191.85	3.1841	.48319	.50175	.51524	.52553	.61396	L007-03M
91	L007-03S	.54323	192.63	3.1989	.48352	.50002	.51621	.52456	.61453	L007-03S
92	L007-04	-.00002	100.58	1.3917	.00072	.00022	.00104	.01436	.00766	L007-04
93	L007-05	.00006	62.520	.56921	.00032	-.00006	.00010	.02557	.00323	L007-05
94	CCV9	.50717	62.828	.48902	2.3474	.49271	.48827	1.4542	2.6698	CCV9
95	CCB9	.00022	.11100	.00046	.00029	.00046	.00034	.00036	.00102	CCB9
96	L030-13	.00010	51.462	.41583	.00043	.00046	.00154	.00011	.01981	L030-13
97	L005-03	-.00017	45.101	.33234	.00022	-.00003	.00127	.00020	.00281	L005-03
98	L005-04	.00001	16.720	.21247	.00027	.00000	.00092	-.00010	.00326	L005-04
99	L005-04M	.54659	71.648	.69689	.50070	.49742	.51259	.52057	.56522	L005-04M
100	L005-04S	.54385	70.909	.69336	.49482	.49432	.50733	.51598	.55457	L005-04S
101	L005-13	.00008	106.37	.37185	.00052	.00032	.00363	.00028	.03094	L005-13
102	L005-14	-.00002	18.954	.22238	.00094	.00005	.00196	.00028	.02422	L005-14
103	ICSA2	.00033	.21071	.02164	-.00159	.00183	.00194	-.00054	.00055	ICSA2
104	ICSAB2	1.1246	82.715	.51463	.89617	.97731	.97349	.48903	1.0781	ICSAB2
105	CCV10	.51321	62.923	.49113	2.3400	.49282	.48833	1.4661	2.6687	CCV10
106	CCB10	.00010	.06950	.00019	.00031	.00043	-.00038	.00014	.00021	CCB10
107	K362-03T	.00032	237.61	.18827	.00612	-.00078	.00840	.00107	-.01563*	K362-03T
108	K362-04T	.00026	219.18	.16695	.00669	-.00073	.00966	.00120	-.01817*	K362-04T
109	K362-05T	.00027	196.06	.17754	.00421	-.00069	.00747	.00222	.02034	K362-05T
110	K362-03T	.00026	231.94	.18423	.00567	-.00094	.00746	.00097	-.01829*	K362-03T
111	K362-04T	.00017	218.08	.16690	.00605	-.00060	.00727	.00121	-.01835*	K362-04T

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
112	K362-05T	.00025	195.32	.17226	.00380	-.00044	.00467	.00173	-.00975*	K362-05T
113	CCV11	.50890	63.321	.49300	2.3413	.49088	.48861	1.4503	2.6577	CCV11
114	CCB11	-.00001	.11314	.00021	.00039	.00018	.00031	.00018	.00018	CCB11
115	L003-02T	.00013	230.63	.05772	.00108	.00036	.00264	.00072	-.00108	L003-02T
116	L003-03T	.00040	240.26	.12680	.00695	-.00082	.00906	.00216	-.02048*	L003-03T
117	L003-05T	-.00003	146.61	.16774	.00068	.00019	.00269	.00174	-.00194	L003-05T
118	L003-02T	.00000	225.10	.05125	.00110	.00033	.00170	.00042	-.00333	L003-02T
119	L003-03T	.00029	229.93	.11948	.00673	-.00079	.00806	.00194	-.01945*	L003-03T
120	L003-05T	-.00005	151.63	.17279	.00147	.00021	.00150	.00139	-.00275	L003-05T
121	CCV12	.51579	63.185	.49064	2.3234	.48733	.48607	1.4622	2.6583	CCV12
122	CCB12	.00000	.13729	.00020	.00048	.00027	.00025	.00030	.00031	CCB12
123	IPL017WB	-.00004	.08730	.00040	.00015	.00064	.00014	.00001	.00456	IPL017WB
124	IPL017WL	.56589	57.114	.50906	.52542	.50661	.53243	.53803	.58440	IPL017WL
125	IPL017WC	.60154*	59.523	.50698	.59791	.37326*	.52082	.54176	.66145*	IPL017WC
126	L119-02A	.53564	206.36	.54616	.48730	.47004	.50262	.50958	.56618	L119-02A
127	L119-02	-.00002	154.41	.06558	.00035	.00031	.00946	.00022	.00482	L119-02
128	L119-02J	.00005	30.418	.01279	.00013	.00032	.00203	-.00003	.00205	L119-02J
129	L119-02M	.53195	202.89	.54949	.48210	.49257	.52002	.50217	.56107	L119-02M
130	L119-02S	.55087	211.71	.57042	.50254	.51074	.54058	.52102	.58455	L119-02S
131	L119-01	.00004	153.49	.16803	.00080	.00041	.01801	.00852	.00582	L119-01
132	CCV13	.50438	62.858	.49317	2.3379	.48626	.48698	1.4403	2.6547	CCV13
133	CCB13	.00008	.11402	.00026	.00052	.00019	.00025	.00037	.00041	CCB13

ID8L009 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-096
Batch: IPL016-5
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
12-8-10 10:00	90 °C	12-8-10 12:00	90 °C

Hot plate C

Standards	ID	Amount Added (ml)
LCS-1	SMIA-13-02-07	0.5
LCS-2	↓ - ↓ - ↓ -08	0.5
LCS-3	↓ - ↓ - ↓ -09	1.0
MS		

Reagent	Lot# / ID	Amount Added (ml)
HNO_3	SWIA-04-291	10.0
HCl	↓ ↓ -282	10.0
H_2O_2	↓ ↓ -209	10.0
HNO3(1:1)	SMSB-02-133	10.0

Digestate Location	ICP
Extract Location	

☐ Reagent Water ID: SMSA-02-050
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☐ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☐ Thermometer ID: 101615632

Prepared By:

Standard Added By: Witnessed By:

Extract Rcvd By: Checked By:

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
10IPL016S01	IPL016SB	1	g	12/8/10 9:37	100	1	100	1	
10IPL016S02	IPL016SL	1	g	12/8/10 9:37	100	1	100	1	
10IPL016S03	IPL016SC	1	g	12/8/10 9:37	100	1	100	1	
10IPL016S04	L075-05	1.002	g	12/8/10 9:38	100	1	100	0.998	DRY&SIEVE ✓
10IPL016S05	L075-07	1.008	g	12/8/10 9:39	100	1	100	0.992	DRY&SIEVE ✓
10IPL016S06	L076-01	1.004	g	12/8/10 9:41	100	1	100	0.996	DRY&SIEVE
10IPL016S07	L076-04	1.008	g	12/8/10 9:41	100	1	100	0.992	DRY&SIEVE
10IPL016S08	L076-04M	1.008	g	12/8/10 9:42	100	1	100	0.992	DRY&SIEVE
10IPL016S09	L076-04S	1.009	g	12/8/10 9:43	100	1	100	0.991	DRY&SIEVE

12-8-10 MC

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume *AliquotFctr=ExpAmt/Aliquot*

☑ Digestion Started @ 12/8/10 10:00 Prepared By: MC

☑ Digestion Ended @ 12/8/10 12:00 Checked By: TH

Comments: Date 12/8/2010

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **10L076**

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GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7072 7073 – 7104
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-13-2010
EMAX Batch No.: 10L076

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 12/04/10.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CP091-01-01	L076-01	11/21/10	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-01-02	L076-02	11/21/10	SOIL	CADMIUM
CP091-01-02FD	L076-03	11/21/10	SOIL	CADMIUM
CP091-02-01	L076-04	11/21/10	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-02-02	L076-05	11/21/10	SOIL	CADMIUM
CP091-03-01	L076-06	11/21/10	SOIL	CADMIUM
CP091-03-02	L076-07	11/21/10	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

Chain of Custody Record

10 L076

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			03-Dec-10	1 of 2
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401			
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**		
Project Name Tar Creek OU4	**Carrier/Waybill Numbe** Fed Ex 7965 1626 3190	**CH2M HILL Project Number:** 395950.CV.01			
Samplers: Various CH2M HILL personnel					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb - sieved	Analysis: Zn	Analysis: admium only	Comments
1	CP091-01-01	November 21, 2010	13;10	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X	Sieve lead sample
2	CP091-01-02	November 21, 2010	13:20	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
3	CP091-01-02FD	November 21, 2010	13:25	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
4	CP091-02-01	November 21, 2010	14:30	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X	Sieve lead sample
5	CP091-02-02	November 21, 2010	14:40	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
6	CP091-03-01	November 21, 2010	15:40	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	
7	CP091-03-02	November 21, 2010	15:50	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X	

Turnaround Time

7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Richard J Trevino	**Date:** December 3, 2010	**Time:** 18:00	**1. Received By:** Fed Ex	**Date:** 12-4-10	**Time:** 11:15
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:**	

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

T = 2.5°C

1001

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 10L076
☐ Client Delivery		Recepient I PATEL
☑ Third Party Fedex	7965 1626 3190	Date 12-4-10
		Time 11:15A

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☑ Plastic bag
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 1 2.5 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 12-4-10

SRF [signature] Date 12/4/10

PM LP for YC Date 12/6/10

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4 ____		E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5 ____	
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6 ____	
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4 ____		G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1 ____			
C4 ____		H2 ____			

From: Origin ID: NQIA (281) 721-8538
Richard Trevino
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Ship Date: 03DEC10
ActWgt: 50.0 LB
CAD: 1303944/WBUS0200
Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

Ref # 395950.CV.01/AAB00101711
Invoice #
PO #
Dept #

10 L076
12-4-10
11:15M

TRK# 0201 7965 1626 3190

SATURDAY ### A1
PRIORITY OVERNIGHT

90501
CA-US
LAX

X0 AVXA

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 10L076

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 10L076

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of seven (7) soil samples were received on 12/04/10 for Metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPL015SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for L076-07M/S were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10L076
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL015SB	1	NA	12/07/1023:52	12/07/1010:00	ID8L008120	ID8L008118	IPL015S	Method Blank
LCS1S	IPL015SL	1	NA	12/07/1023:55	12/07/1010:00	ID8L008121	ID8L008118	IPL015S	Lab Control Sample (LCS)
LCD1S	IPL015SC	1	NA	12/07/1023:57	12/07/1010:00	ID8L008122	ID8L008118	IPL015S	LCS Duplicate
CP091-03-02AS	L076-07A	0.974	19.6	12/08/1000:00	12/07/1010:00	ID8L008123	ID8L008118	IPL015S	Analytical Spike Sample
CP091-03-02	L076-07	0.974	19.6	12/08/1000:03	12/07/1010:00	ID8L008124	ID8L008118	IPL015S	Field Sample
CP091-03-02DL	L076-07J	4.87	19.6	12/08/1000:06	12/07/1010:00	ID8L008125	ID8L008118	IPL015S	Diluted Sample
CP091-03-02MS	L076-07M	0.974	19.6	12/08/1000:08	12/07/1010:00	ID8L008126	ID8L008118	IPL015S	Matrix Spike Sample (MS)
CP091-03-02MSD	L076-07S	0.975	19.6	12/08/1000:11	12/07/1010:00	ID8L008127	ID8L008118	IPL015S	MS Duplicate (MSD)
CP091-01-02	L076-02	0.998	22.7	12/08/1000:17	12/07/1010:00	ID8L008129	ID8L008118	IPL015S	Field Sample
CP091-01-02FD	L076-03	0.988	19.8	12/08/1000:26	12/07/1010:00	ID8L008132	ID8L008130	IPL015S	Field Sample
CP091-02-02	L076-05	0.991	26.7	12/08/1000:31	12/07/1010:00	ID8L008134	ID8L008130	IPL015S	Field Sample
CP091-03-01	L076-06	0.985	20.8	12/08/1000:34	12/07/1010:00	ID8L008135	ID8L008130	IPL015S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 13:20
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-01-02	Date Analyzed:	12/08/10 00:17
Lab Samp ID:	L076-02	Dilution Factor:	0.998
Lab File ID:	ID8L008129	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	22.7
Calib. Ref.:	ID8L008118	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	54.5	1.29	0.129

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 13:25
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-01-02FD	Date Analyzed:	12/08/10 00:26
Lab Samp ID:	L076-03	Dilution Factor:	0.988
Lab File ID:	ID8L008132	Matrix :	SOIL
Ext Btch ID:	IPLD15S	% Moisture :	19.8
Calib. Ref.:	ID8L008130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	38.7	1.23	0.123

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 14:40
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-02-02	Date Analyzed:	12/08/10 00:31
Lab Samp ID:	L076-05	Dilution Factor:	0.991
Lab File ID:	ID8L008134	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	26.7
Calib. Ref.:	ID8L008130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	37.5	1.35	0.135

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 15:40
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-03-01	Date Analyzed:	12/08/10 D0:34
Lab Samp ID:	L076-06	Dilution Factor:	0.985
Lab File ID:	ID8L008135	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	20.8
Calib. Ref.:	ID8L008130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	25.0	1.24	0.124

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 15:50
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-03-02	Date Analyzed:	12/08/10 00:03
Lab Samp ID:	L076-07	Dilution Factor:	0.974
Lab File ID:	ID8L008124	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	19.6
Calib. Ref.:	ID8L008118	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	73.1	1.21	0.121

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/07/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	MBLK1S	Date Analyzed:	12/07/10 23:52
Lab Samp ID:	IPL015SB	Dilution Factor:	1
Lab File ID:	ID8L008120	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	NA
Calib. Ref.:	ID8L008118	Instrument ID :	EMAXTI08

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL015SB	IPL015SL	IPL015SC		
LAB FILE ID:	ID8L008120	ID8L008121	ID8L008122		
DATIME EXTRCTD:	12/07/1010:00	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/07/1023:52	12/07/1023:55	12/07/1023:57	DATE RECEIVED:	12/07/10
PREP. BATCH:	IPL015S	IPL015S	IPL015S		
CALIB. REF:	ID8L008118	ID8L008118	ID8L008118		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	53.3	107	50	52.9	106	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	19.6
DILTN FACTR:	0.974	0.974	0.975		
SAMPLE ID:	CP091-03-02				
CONTROL NO.:	L076-07	L076-07M	L076-07S		
LAB FILE ID:	ID8L008124	ID8L008126	ID8L008127		
DATIME EXTRCTD:	12/07/1010:00	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	11/21/10 15:50
DATIME ANALYZD:	12/08/1000:03	12/08/1000:08	12/08/1000:11	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL015S	IPL015S	IPL015S		
CALIB. REF:	ID8L008118	ID8L008118	ID8L008118		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	73.1	60.6	136	103	60.6	134	100	3	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	19.6
DILUTION FACTOR:	0.974	4.87		
SAMPLE ID:	CP091-03-02	CP091-03-02DL		
EMAX SAMP ID:	L076-07	L076-07J		
LAB FILE ID:	ID8L008124	ID8L008125		
DATE EXTRACTED:	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	11/21/10 15:50
DATE ANALYZED:	12/08/1000:03	12/08/1000:06	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL015S	IPL015S		
CALIB. REF:	ID8L008118	ID8L008118		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	73.1	68.7	6	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	19.6
DILTN FACTR:	0.974	0.974		
SAMPLE ID:	CP091-03-02			
CONTROL NO.:	L076-07	L076-07A		
LAB FILE ID:	ID8L008124	ID8L008123		
DATIME EXTRCTD:	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	11/21/10 15:50
DATIME ANALYZD:	12/08/1000:03	12/08/1000:00	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL015S	IPL015S		
CALIB. REF:	ID8L008118	ID8L008118		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	73.1	60.6	134	100	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10L076
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL015SB	1	NA	12/07/1023:52	12/07/1010:00	ID8L008120	ID8L008118	IPL015S	Method Blank
LCS1S	IPL015SL	1	NA	12/07/1023:55	12/07/1010:00	ID8L008121	ID8L008118	IPL015S	Lab Control Sample (LCS)
LCD1S	IPL015SC	1	NA	12/07/1023:57	12/07/1010:00	ID8L008122	ID8L008118	IPL015S	LCS Duplicate
CP091-01-01AS	L076-01A	0.988	22.9	12/08/1020:07	12/07/1010:00	ID8L009065	ID8L009063	IPL015S	Analytical Spike Sample
CP091-01-01RE	L076-01W	0.988	22.9	12/08/1020:10	12/07/1010:00	ID8L009066	ID8L009063	IPL015S	Field Sample
CP091-01-01DL	L076-01J	4.94	22.9	12/08/1020:12	12/07/1010:00	ID8L009067	ID8L009063	IPL015S	Diluted Sample
CP091-02-01	L076-04	0.992	24.7	12/08/1000:28	12/07/1010:00	ID8L008133	ID8L008130	IPL015S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 13:10
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-01-01RE	Date Analyzed:	12/08/10 20:10
Lab Samp ID:	L076-01W	Dilution Factor:	0.988
Lab File ID:	ID8L009066	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	22.9
Calib. Ref.:	ID8L009063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	11.9	1.28	0.128
Zinc	2340	1.28	0.641

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 14:30
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	CP091-02-01	Date Analyzed:	12/08/10 00:28
Lab Samp ID:	L076-04	Dilution Factor:	0.992
Lab File ID:	ID8L008133	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	24.7
Calib. Ref.:	ID8L008130	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	16.9	1.32	0.132
Zinc	2650	1.32	0.659

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/07/10
SDG NO.	: 10L076	Date Extracted:	12/07/10 10:00
Sample ID:	MBLK1S	Date Analyzed:	12/07/10 23:52
Lab Samp ID:	IPL015SB	Dilution Factor:	1
Lab File ID:	ID8L008120	Matrix :	SOIL
Ext Btch ID:	IPL015S	% Moisture :	NA
Calib. Ref.:	ID8L008118	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL015SB	IPL015SL	IPL015SC		
LAB FILE ID:	ID8L008120	ID8L008121	ID8L008122		
DATIME EXTRCTD:	12/07/1010:00	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/07/1023:52	12/07/1023:55	12/07/1023:57	DATE RECEIVED:	12/07/10
PREP. BATCH:	IPL015S	IPL015S	IPL015S		
CALIB. REF:	ID8L008118	ID8L008118	ID8L008118		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	53.3	107	50	52.9	106	1	80-120	20
Zinc	ND	50	55.3	111	50	55	110	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	22.9
DILUTION FACTOR:	0.988	4.94		
SAMPLE ID:	CP091-01-01RE	CP091-01-01DL		
EMAX SAMP ID:	L076-01W	L076-01J		
LAB FILE ID:	ID8L009066	ID8L009067		
DATE EXTRACTED:	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	11/21/10 13:10
DATE ANALYZED:	12/08/1020:10	12/08/1020:12	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL015S	IPL015S		
CALIB. REF:	ID8L009063	ID8L009063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	11.9	11.1	6	10
Zinc	2340	2320	1	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L076
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	22.9
DILTN FACTR:	0.988	0.988		
SAMPLE ID:	CP091-01-01RE			
CONTROL NO.:	L076-01W	L076-01A		
LAB FILE ID:	ID8L009066	ID8L009065		
DATIME EXTRCTD:	12/07/1010:00	12/07/1010:00	DATE COLLECTED:	11/21/10 13:10
DATIME ANALYZD:	12/08/1020:10	12/08/1020:07	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL015S	IPL015S		
CALIB. REF:	ID8L009063	ID8L009063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	11.9	64.1	81.4	109	75-125
Zinc	2340	64.1	2360	27*	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/7/10 18:13

End Date: 12/8/10 01:08

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

TOT L020-04 Cr>LDR
TOT L020-05
TOT L028-02
TOT L028-04
L027-01 Na>LDR
L027-06
CCB4 Na>LOD
L076-07 Zn>LDR
-02
-03
-05
-06
L075-01
02

Book #: AD8-017

Instrument No.: D8

Analytical Batch: 1D8L008

Analytical Sequence: S-10L6010 (V12)

Method File: 10L6010 (V12)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SMIB14-16-01	S30	SMIB14 02 03
S1	MA	S31	02 04
S2		ICV	SMIB14-09 01
S3		CCV	1602
S4		ICSA	11 03
S5		ICSAB	0303
S6		MLCV	MA
S7		LLCV	
S8		CRI/MRL 1	SMIB12 8801
S9		MRL2	SMIB14 1801
S10			
S11			
S12			
S16			
S17			
S18			
S20	SMIB12-100-05		
S21	SMIB14-01-01		
S22	01-02		
S23	01-03		
S24	01-04		
S25	01-05		
S26	SMIB12-100-02		
S27	100-03		
S28	SMIB14-0201		
S29	02 02		

Analyzed By: TH

Date: 12/8/10

SEQUENCE FILE : ID8L008

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8L008001	Blank	18:13	12/07/10	1.000
ID8L008002	S20	18:16	12/07/10	1.000
ID8L008003	S21	18:19	12/07/10	1.000
ID8L008004	S22	18:22	12/07/10	1.000
ID8L008005	S23	18:24	12/07/10	1.000
ID8L008006	S24	18:28	12/07/10	1.000
ID8L008007	S25	18:31	12/07/10	1.000
ID8L008008	S26	18:34	12/07/10	1.000
ID8L008009	S27	18:37	12/07/10	1.000
ID8L008010	S28	18:40	12/07/10	1.000
ID8L008011	S29	18:43	12/07/10	1.000
ID8L008012	S30	18:45	12/07/10	1.000
ID8L008013	S31	18:48	12/07/10	1.000
ID8L008014	ICV	18:51	12/07/10	1.000
ID8L008015	ICB	18:54	12/07/10	1.000
ID8L008016	MRLL071	18:57	12/07/10	1.000
ID8L008017	MRLL072	19:00	12/07/10	1.000
ID8L008018	ICSA1	19:02	12/07/10	1.000
ID8L008019	ICSAB1	19:05	12/07/10	1.000
ID8L008020	CCV1	19:08	12/07/10	1.000
ID8L008021	CCB1	19:11	12/07/10	1.000
ID8L008022	IPL011WB	19:14	12/07/10	1.000
ID8L008023	IPL011WL	19:17	12/07/10	1.000
ID8L008024	IPL011WC	19:19	12/07/10	1.000
ID8L008025	L020-03A	19:22	12/07/10	1.000
ID8L008026	L020-03	19:25	12/07/10	1.000
ID8L008027	L020-03J	19:28	12/07/10	5.000
ID8L008028	L020-03M	19:30	12/07/10	1.000
ID8L008029	L020-03S	19:33	12/07/10	1.000
ID8L008030	L020-04	19:36	12/07/10	1.000
ID8L008031	L020-05	19:39	12/07/10	1.000
ID8L008032	CCV2	19:42	12/07/10	1.000
ID8L008033	CCB2	19:44	12/07/10	1.000
ID8L008034	L020-03	19:47	12/07/10	1.000
ID8L008035	L020-03M	19:50	12/07/10	1.000
ID8L008036	L020-03S	19:53	12/07/10	1.000
ID8L008037	L020-04	19:56	12/07/10	1.000
ID8L008038	L020-05	19:59	12/07/10	1.000
ID8L008039	L028-02	20:02	12/07/10	1.000
ID8L008040	L028-03	20:05	12/07/10	1.000
ID8L008041	L028-04	20:08	12/07/10	1.000
ID8L008042	L028-05	20:11	12/07/10	1.000
ID8L008043	CCV3	20:14	12/07/10	1.000
ID8L00B044	CCB3	20:16	12/07/10	1.000
ID8L008045	L02B-02	20:19	12/07/10	1.000
ID8L008046	L028-03	20:22	12/07/10	1.000
ID8L008047	L028-04	20:25	12/07/10	1.000
ID8L008048	L028-05	20:28	12/07/10	1.000
ID8L008049	L027-01	20:31	12/07/10	1.000
ID8L008050	L027-02	20:34	12/07/10	1.000
ID8L008051	L027-04	20:37	12/07/10	1.000
ID8L008052	L027-06	20:40	12/07/10	1.000
ID8L008053	L027-07	20:43	12/07/10	1.000
ID8L008054	K270-10W	20:46	12/07/10	1.000

ID8L008055	CCV4	20:49	12/07/10	1.000
ID8L008056	CCB4	20:52	12/07/10	1.000
ID8L008057	IPL010W8	20:55	12/07/10	1.000
ID8L008058	IPL010WL	20:58	12/07/10	1.000
ID8L008059	IPL010WC	21:00	12/07/10	1.000
ID8L008060	TXL002S8	21:03	12/07/10	1.000
ID8L008061	Z288-10A	21:06	12/07/10	1.000
ID8L008062	Z288-10	21:09	12/07/10	1.000
ID8L008063	Z288-10J	21:12	12/07/10	5.000
ID8L008064	Z288-10M	21:14	12/07/10	1.000
ID8L008065	Z288-10S	21:17	12/07/10	1.000
ID8L008066	CCV5	21:20	12/07/10	1.000
ID8L008067	CCB5	21:23	12/07/10	1.000
ID8L008068	TXL003WB	21:25	12/07/10	1.000
ID8L008069	K574-07A	21:28	12/07/10	1.000
ID8L008070	K574-07	21:31	12/07/10	1.000
ID8L008071	K574-07J	21:34	12/07/10	5.000
ID8L008072	K574-07M	21:37	12/07/10	1.000
ID8L008073	K574-07S	21:39	12/07/10	1.000
IDBL008074	K574-12	21:42	12/07/10	1.000
ID8L008075	Z288-05	21:45	12/07/10	1.000
ID8L008076	Z288-05M	21:48	12/07/10	1.000
ID8L008077	Z288-05S	21:50	12/07/10	1.000
ID8L008078	CCV6	21:53	12/07/10	1.000
ID8L008079	CCB6	21:56	12/07/10	1.000
ID8L008080	TXL001SB	21:59	12/07/10	1.000
ID8L008081	K574-03A	22:02	12/07/10	1.000
ID8L008082	K574-03	22:04	12/07/10	1.000
ID8L008083	K574-03J	22:07	12/07/10	5.000
ID8L008084	K574-03M	22:10	12/07/10	1.000
ID8L008085	K574-03S	22:13	12/07/10	1.000
ID8L008086	K574-01	22:16	12/07/10	1.000
ID8L008087	K574-02	22:19	12/07/10	1.000
ID8L008088	CCV7	22:21	12/07/10	1.000
ID8L008089	CCB7	22:24	12/07/10	1.000
ID8L008090	K574-04	22:27	12/07/10	1.000
ID8L008091	K574-05	22:30	12/07/10	1.000
ID8L008092	K574-06	22:33	12/07/10	1.000
ID8L008093	K574-09	22:36	12/07/10	1.000
ID8L008094	K574-11	22:39	12/07/10	1.000
ID8L008095	K577-01	22:42	12/07/10	1.000
ID8L008096	CCV8	22:45	12/07/10	1.000
ID8L008097	CCB8	22:48	12/07/10	1.000
ID8L008098	IPL013WB	22:50	12/07/10	1.000
ID8L008099	IPL013WL	22:53	12/07/10	1.000
ID8L008100	IPL013WC	22:56	12/07/10	1.000
ID8L008101	WTL002SB	22:59	12/07/10	1.000
ID8L008102	K288-10A	23:02	12/07/10	1.000
IDBL008103	K288-10	23:04	12/07/10	1.000
ID8L008104	K288-10J	23:07	12/07/10	5.000
ID8L008105	K288-10M	23:10	12/07/10	1.000
ID8L008106	K288-10S	23:13	12/07/10	1.000
ID8L008107	K288-05	23:16	12/07/10	1.000
ID8L008108	CCV9	23:19	12/07/10	1.000
ID8L008109	CCB9	23:21	12/07/10	1.000
ID8L008110	IPL004WQ	23:24	12/07/10	1.000
ID8L008111	IPL004WX	23:27	12/07/10	1.000

ID8L008112	IPL004WY	23:30	12/07/10	1.000
ID8L008113	K307-07A	23:32	12/07/10	1.000
ID8L008114	K307-07W	23:35	12/07/10	1.000
ID8L008115	K307-07J	23:38	12/07/10	5.000
ID8L008116	L039-02	23:40	12/07/10	1.000
ID8L008117	L039-03	23:43	12/07/10	1.000
ID8L008118	CCV10	23:46	12/07/10	1.000
ID8L008119	CCB10	23:49	12/07/10	1.000
ID8L008120	IPL015SB	23:52	12/07/10	1.000
ID8L008121	IPL015SL	23:55	12/07/10	1.000
ID8L008122	IPL015SC	23:57	12/07/10	1.000
ID8L008123	L076-07A	00:00	12/08/10	1.000
ID8L008124	L076-07	00:03	12/08/10	1.000
ID8L008125	L076-07J	00:06	12/08/10	5.000
ID8L008126	L076-07M	00:08	12/08/10	1.000
ID8L008127	L076-07S	00:11	12/08/10	1.000
ID8L008128	L076-01	00:14	12/08/10	1.000
ID8L008129	L076-02	00:17	12/08/10	1.000
ID8L008130	CCV11	00:20	12/08/10	1.000
ID8L008131	CCB11	00:23	12/08/10	1.000
ID8L008132	L076-03	00:26	12/08/10	1.000
ID8L008133	L076-04	00:28	12/08/10	1.000
ID8L008134	L076-05	00:31	12/08/10	1.000
ID8L008135	L076-06	00:34	12/08/10	1.000
ID8L008136	CCV12	00:37	12/08/10	1.000
ID8L008137	CCB12	00:39	12/08/10	1.000
ID8L008138	L075-01	00:42	12/08/10	1.000
ID8L008139	L075-02	00:45	12/08/10	1.000
ID8L008140	L075-03	00:48	12/08/10	1.000
ID8L008141	L075-04	00:51	12/08/10	1.000
ID8L008142	L075-05	00:54	12/08/10	1.000
ID8L008143	L075-06	00:56	12/08/10	1.000
ID8L008144	L075-07	00:59	12/08/10	1.000
ID8L008145	L075-08	01:02	12/08/10	1.000
ID8L008146	CCV13	01:05	12/08/10	1.000
ID8L008147	CCB13	01:08	12/08/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : ID8L008 DATE : 12/07/10 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	97	102	98	99	98	104	100	94	93	98	97	96	101	94	94	99	98	99	102	95	103	97	96	98	98	100	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL071	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL072	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	100	----	----	----	----	----	----	96	----	----	----	95	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	108	114	117	115	105	115	114	103	103	102	116	103	101	119	101	101	112	106	115	117	119	119	112	99	106	106	107	113
CCV1	105	101	104	102	100	100	105	103	96	97	101	101	97	105	95	96	102	100	101	104	99	104	99	96	101	100	100	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	106	102	106	102	100	101	105	102	98	97	102	102	97	106	95	96	101	100	102	106	101	106	100	96	100	100	101	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	105	104	108	102	100	101	105	102	98	96	101	102	98	106	95	95	101	100	101	108	101	107	99	96	101	100	101	107
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV4	104	102	108	102	100	101	105	103	99	96	101	102	97	106	96	96	100	99	102	108	101	107	100	95	100	100	101	108
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	101	106	103	100	100	105	102	98	96	101	101	97	107	95	95	101	100	103	106	100	107	100	95	100	100	100	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	105	101	107	103	100	102	105	102	100	96	103	102	97	108	95	95	101	100	104	107	102	108	101	95	99	100	101	107
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	103	99	105	102	100	99	104	101	98	95	100	101	96	107	95	94	99	98	102	105	99	106	99	94	98	99	99	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K577-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	100	106	103	99	101	104	101	99	95	102	101	96	108	94	94	99	98	103	106	101	107	100	94	98	99	100	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	100	107	103	99	101	104	101	100	95	103	101	96	109	94	93	99	98	105	106	102	114*	101	94	97	98	100	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPL004WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	105	100	107	104	99	102	104	101	101	95	104	101	96	110	93	93	98	98	106	107	103	109	102	93	96	98	100	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	105	103	111*	104	100	103	105	101	102	96	105	102	96	110	94	94	98	99	107	110	105	110	102	94	96	99	100	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	105	104	113*	104	99	103	105	101	103	96	105	102	96	110	94	94	98	99	106	113*	106	109	102	94	96	99	100	107
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	105	103	112*	104	100	103	106	102	102	96	104	102	97	110	95	94	99	99	106	112*	105	109	102	95	97	99	100	107
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L008 (WATER) DATE : 12/07/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	41.9	.860	.650	.400	.490	3.51	.260	-13.3	.820	.060	.560	-7.72	.290	.070	20.0	.780	.280	.520	109	.390	.240	29.7	.210	.510	-.410	.320	.070	-1.89
MRLL071	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL072	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	9.41	2.14	.940	-.100	29.6	-1.20	----	1.34	-.690	1.71	----	-2.08	5.95	----	.880	-1.99	-.540	194	1.83	.220	85.1	20.8	.530	1.08	1.10	-1.41	-.320
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	45.2	.820	-.190	.330	.420	2.46	.250	9.28	.450	.080	.310	.630	.590	.040	31.0	.550	.250	.220	109	-1.12	.070	34.8	.140	.290	-.340	-.080	-.120	-2.54
IPL011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	38.9	.880	-.590	.610	.600	4.69	.410	-8.88	1.10	.070	.710	-6.24	.620	-.140	30.1	1.15	.390	.610	180	-.180	.090	231	.150	.350	.000	.570	120	-2.35
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	38.2	1.24	-.390	.730	.680	5.57	.460	-6.12	1.54	.140	.770	-5.63	.360	.630	21.2	1.18	.370	.440	217	-.750	.170	390	.230	.160	-.470	.640	-.080	-2.31
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	34.0	1.45	.540	.540	.530	3.46	.350	-10.6	.800	-.030	.510	-5.92	.880	-.500	24.2	1.46	.260	.400	163	1.46	.180	354	.130	.230	-.170	.300	-.130	-2.43
IPL010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	28.1	1.80	-.450	.370	.500	3.84	.360	-15.0	.530	.080	.330	-9.57	.860	.210	18.8	.880	.280	.290	151	.040	.160	268	.180	.520	-.190	.330	-.160	-2.07
TXL003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	25.9	1.48	-.100	.410	.340	4.02	.280	-23.1	.440	.130	.240	-11.6	1.06	-.030	12.7	.840	.170	.340	144	-.100	.090	210	.070	.640	-.290	.260	.010	-2.26
TXL001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.3	2.01	.640	.620	.600	3.25	.390	9.60	.640	.100	.470	-8.19	.940	.250	25.5	.970	.340	.400	179	-.230	.130	277	.190	.750	-.080	.310	.040	-1.40
K574-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K577-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCVB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	33.3	1.000	.760	.730	.590	2.96	.380	10.7	.650	.150	.440	-7.48	1.22	-.080	24.0	1.21	.250	.520	189	-.670	.140	294	.120	.910	-.050	.380	.100	-1.25
IPL013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	35.9	1.13	.370	.690	.610	1.49	.400	13.0	.710	.150	.390	-9.80	.490	.840	24.9	1.05	.430	.390	299	.770	.200	958	.230	.280	.070	.220	.000	-1.32
IPL004WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPL004WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	34.9	1.83	.930	.760	.550	1.80	.400	10.2	.650	.140	.320	-8.12	.900	.220	15.7	1.02	.260	.440	169	-.660	.220	354	.250	.720	-.080	.240	.030	-1.37
IPL015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	26.2	.530	-.260	.250	.230	1.99	.170	-7.35	.250	.010	.150	-8.77	.480	-.140	7.78	.580	.120	.040	126	.120	.060	193	.070	.210	-.310	-.070	-.190	3.04
L076-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	29.8	1.94	.810	.400	.220	1.89	.140	-8.99	.230	.030	.160	-6.81	.520	-.500	10.1	.980	.060	.070	129	-.380	.120	177	-.010	.240	-.150	.440	-.320	1.09
L075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	22.3	.160	-.330	-.010	.030	1.06	-.010	54.5	.170	-.110	.060	-2.68	.770	.200	-2.90	.310	.010	.110	77.7	-.710	.060	111	-.140	.370	-.370	-.160	-.210	2.25

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L008 (SOIL) DATE : 12/07/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	41.9	.860	.650	.400	.490	3.51	.260	-13.3	.820	.060	.560	-7.72	.290	.070	20.0	.780	.280	.520	109	.390	.240	29.7	.210	.510	-.410	.320	.070	-1.89
MRLL071	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL072	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	9.41	2.14	.940	-.100	29.6	-1.20	----	1.34	-.690	1.71	----	-2.08	5.95	----	.880	-1.99	-.540	194	1.83	.220	85.1	20.8	.530	1.08	1.10	-1.41	-.320
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	45.2	.820	-.190	.330	.420	2.46	.250	9.28	.450	.080	.310	.630	.590	.040	31.0	.550	.250	.220	109	-1.12	.070	34.8	.140	.290	-.340	-.080	-.120	-2.54
IPL011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	38.9	.880	-.590	.610	.600	4.69	.410	-8.88	1.10	.070	.710	-6.24	.620	-.140	30.1	1.15	.390	.610	180	-.180	.090	231	.150	.350	.000	.570	.120	-2.35
L020-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	38.2	1.24	-.390	.730	.680	5.57	.460	-6.12	1.54	.140	.770	-5.63	.360	.630	21.2	1.18	.370	.440	217	-.750	.170	390	.230	.160	-.470	.640	-.080	-2.31
L028-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K270-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	34.0	1.45	.540	.540	.530	3.46	.350	-10.6	.800	-.030	.510	-5.92	.880	-.500	24.2	1.46	.260	.400	163	1.46	.180	354	.130	.230	-.170	.300	-.130	-2.43
IPL010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	28.1	1.80	-.450	.370	.500	3.84	.360	-15.0	.530	.080	.330	-9.57	.860	.210	18.8	.880	.280	.290	151	.040	.160	268	.180	.520	-.190	.330	-.160	-2.07
TXL003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	25.9	1.48	-.100	.410	.340	4.02	.280	-23.1	.440	.130	.240	-11.6	1.06	-.030	12.7	.840	.170	.340	144	-.100	.090	210	.070	.640	-.290	.260	.010	-2.26
TXL001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.3	2.01	.640	.620	.600	3.25	.390	9.60	.640	.100	.470	-8.19	.940	.250	25.5	.970	.340	.400	179	-.230	.130	277	.190	.750	-.080	.310	.040	-1.40
K574-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K577-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	33.3	1.000	.760	.730	.590	2.96	.380	10.7	.650	.150	.440	-7.48	1.22	-.080	24.0	1.21	.250	.520	189	-.670	.140	294	.120	.910	-.050	.380	.100	-1.25
IPL013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL013WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTL002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K288-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	35.9	1.13	.370	.690	.610	1.49	.400	13.0	.710	.150	.390	-9.80	.490	.840	24.9	1.05	.430	.390	299	.770	.200	958	.230	.280	.070	.220	.000	-1.32
IPL004WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL004WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPL004WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K307-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	34.9	1.83	.930	.760	.550	1.80	.400	10.2	.650	.140	.320	-8.12	.900	.220	15.7	1.02	.260	.440	169	-.660	.220	354	.250	.720	-.080	.240	.030	-1.37
IPL015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	26.2	.530	-.260	.250	.230	1.99	.170	-7.35	.250	.010	.150	-8.77	.480	-.140	7.78	.580	.120	.040	126	.120	.060	193	.070	.210	-.310	-.070	-.190	3.04
L076-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	29.8	1.94	.810	.400	.220	1.89	.140	-8.99	.230	.030	.160	-6.81	.520	-.500	10.1	.980	.060	.070	129	-.380	.120	177	-.010	.240	-.150	.440	-.320	1.09
L075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	22.3	.160	-.330	.010	.030	1.06	-.010	54.5	.170	.110	.060	-2.68	.770	.200	-2.90	.310	.010	.110	77.7	-.710	.060	111	-.140	.370	-.370	-.160	-.210	2.25

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L008001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L008002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L008003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L008004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L008005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L008006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L008007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L008008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L008009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L008010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L008011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L008012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L008013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8L008014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L008015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL071		ID8L008016			1	☒	MRL-EMAX	None
17	4	2	4	1	Unk	MRLL072		ID8L008017			1	☒	unk	---
18	5	2	5	1	QC	ICSA1		ID8L008018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L008019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L008020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L008021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPL011WB		ID8L008022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPL011WL		ID8L008023			1	☒	LCS	None
24	11	2	11	1	QC	IPL011WC		ID8L008024			1	☒	LCS	None
25	12	2	12	1	Unk	L020-03A	TOT	ID8L008025			1	☒	unk	---
26	13	2	1	2	Unk	L020-03	TOT	ID8L008026			1	☒	unk	---
27	14	2	2	2	Unk	L020-03J	TOT	ID8L008027			1	☒	unk	---
28	15	2	3	2	Unk	L020-03M	TOT	ID8L008028			1	☒	unk	---
29	16	2	4	2	Unk	L020-03S	TOT	ID8L008029			1	☒	unk	---
30	17	2	5	2	Unk	L020-04	TOT 6/7 L1R	ID8L008030			1	☒	unk	---
31	18	2	6	2	Unk	L020-05	TOT 6/7 L1R	ID8L008031			1	☒	unk	---
32	19	2	7	2	QC	CCV2		ID8L008032			1	☒	CCV	None
33	20	2	8	2	QC	CCB2		ID8L008033			1	☒	3XIDL	None
34	21	2	9	2	Unk	L020-03	DISS	ID8L008034			1	☒	unk	---
35	22	2	10	2	Unk	L020-03M	DISS	ID8L008035			1	☒	unk	---
36	23	2	11	2	Unk	L020-03S	DISS	ID8L008036			1	☒	unk	---
37	24	2	12	2	Unk	L020-04	DISS	ID8L008037			1	☒	unk	---
38	25	2	1	3	Unk	L020-05	DISS	ID8L008038			1	☒	unk	---
39	26	2	2	3	Unk	L028-02	TOT 6/7 L1R	ID8L008039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	L028-03	TOT	ID8L008040			1	☒	unk	---
41	28	2	4	3	Unk	L028-04	TOT CrZLNR	ID8L008041			1	☒	unk	---
42	29	2	5	3	Unk	L028-05	TOT	ID8L008042			1	☒	unk	---
43	30	2	6	3	QC	CCV3		ID8L008043			1	☒	CCV	None
44	31	2	7	3	QC	CCB3		ID8L008044			1	☒	3XIDL	None
45	32	2	8	3	Unk	L028-02	DISS	ID8L008045			1	☒	unk	---
46	33	2	9	3	Unk	L028-03	DISS	ID8L008046			1	☒	unk	---
47	34	2	10	3	Unk	L028-04	DISS	ID8L008047			1	☒	unk	---
48	35	2	11	3	Unk	L028-05	DISS	ID8L008048			1	☒	unk	---
49	142	4	10	2	Unk	L027-01	NaZLNR	ID8L008049			1	☒	unk	---
50	143	4	11	2	Unk	L027-02		ID8L008050			1	☒	unk	---
51	144	4	12	2	Unk	L027-04		ID8L008051			1	☒	unk	---
52	145	4	1	3	Unk	L027-06	NaZLDR	ID8L008052			1	☒	unk	---
53	146	4	2	3	Unk	L027-07		ID8L008053			1	☒	unk	---
54	147	4	3	3	Unk	K270-10W		ID8L008054			1	☒	unk	---
55	36	2	12	3	QC	CCV4		ID8L008055			1	☒	CCV	None
56	37	2	1	4	QC	CCB4	NaZLDD	ID8L008056			1	☒	3XIDL	None
57	38	2	2	4	QC	IPL010WB		ID8L008057			1	☒	1/2LOQ	None
58	39	2	3	4	QC	IPL010WL		ID8L008058			1	☒	LCS	None
59	40	2	4	4	QC	IPL010WC		ID8L008059			1	☒	LCS	None
60	41	2	5	4	QC	TXL002SB	TCLP	ID8L008060			1	☒	1/2LOQ	None
61	42	2	6	4	Unk	K288-10A	TCLP	ID8L008061			1	☒	unk	---
62	43	2	7	4	Unk	K288-10	TCLP	ID8L008062			1	☒	unk	---
63	44	2	8	4	Unk	K288-10J	TCLP	ID8L008063			1	☒	unk	---
64	45	2	9	4	Unk	K288-10M	TCLP	ID8L008064			1	☒	unk	---
65	46	2	10	4	Unk	K288-10S	TCLP	ID8L008065			1	☒	unk	---
66	47	2	11	4	QC	CCV5		ID8L008066			1	☒	CCV	None
67	48	2	12	4	QC	CCB5		ID8L008067			1	☒	3XIDL	None
68	49	2	1	5	QC	TXL003WB	TCLP	ID8L008068			1	☒	1/2LOQ	None
69	50	2	2	5	Unk	K574-07A	TCLP	ID8L008069			1	☒	unk	---
70	51	2	3	5	Unk	K574-07	TCLP	ID8L008070			1	☒	unk	---
71	52	2	4	5	Unk	K574-07J	TCLP	ID8L008071			1	☒	unk	---
72	53	2	5	5	Unk	K574-07M	TCLP	ID8L008072			1	☒	unk	---
73	54	2	6	5	Unk	K574-07S	TCLP	ID8L008073			1	☒	unk	---
74	55	2	7	5	Unk	K574-12	TCLP	ID8L008074			1	☒	unk	---
75	56	2	8	5	Unk	K288-05	TCLP	ID8L008075			1	☒	unk	---
76	57	2	9	5	Unk	K288-05M	TCLP	ID8L008076			1	☒	unk	---
77	58	2	10	5	Unk	K288-05S	TCLP	ID8L008077			1	☒	unk	---
78	59	2	11	5	QC	CCV6		ID8L008078			1	☒	CCV	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	60	2	12	5	QC	CCB6		ID8L008079			1	☒	3XIDL	None
80	61	3	1	1	QC	TXL001SB	TCLP	ID8L008080			1	☒	1/2LOQ	None
81	62	3	2	1	Unk	K574-03A	TCLP	ID8L008081			1	☒	unk	---
82	63	3	3	1	Unk	K574-03	TCLP	ID8L008082			1	☒	unk	---
83	64	3	4	1	Unk	K574-03J	TCLP	ID8L008083			1	☒	unk	---
84	65	3	5	1	Unk	K574-03M	TCLP	ID8L008084			1	☒	unk	---
85	66	3	6	1	Unk	K574-03S	TCLP	ID8L008085			1	☒	unk	---
86	67	3	7	1	Unk	K574-01	TCLP	ID8L008086			1	☒	unk	---
87	68	3	8	1	Unk	K574-02	TCLP	ID8L008087			1	☒	unk	---
88	69	3	9	1	QC	CCV7		ID8L008088			1	☒	CCV	None
89	70	3	10	1	QC	CCB7		ID8L008089			1	☒	3XIDL	None
90	71	3	11	1	Unk	K574-04	TCLP	ID8L008090			1	☒	unk	---
91	72	3	12	1	Unk	K574-05	TCLP	ID8L008091			1	☒	unk	---
92	73	3	1	2	Unk	K574-06	TCLP	ID8L008092			1	☒	unk	---
93	74	3	2	2	Unk	K574-09	TCLP	ID8L008093			1	☒	unk	---
94	75	3	3	2	Unk	K574-11	TCLP	ID8L008094			1	☒	unk	---
95	76	3	4	2	Unk	K577-01	TCLP	ID8L008095			1	☒	unk	---
96	80	3	8	2	QC	CCV8		ID8L008096			1	☒	CCV	None
97	81	3	9	2	QC	CCB8		ID8L008097			1	☒	3XIDL	None
98	82	3	10	2	QC	IPL013WB		ID8L008098			1	☒	1/2LOQ	None
99	83	3	11	2	QC	IPL013WL		ID8L008099			1	☒	LCS	None
100	84	3	12	2	QC	IPL013WC		ID8L008100			1	☒	LCS	None
101	85	3	1	3	QC	WTL002SB	STLC	ID8L008101			1	☒	1/2LOQ	None
102	86	3	2	3	Unk	K288-10A	STLC	ID8L008102			1	☒	unk	---
103	87	3	3	3	Unk	K288-10	STLC	ID8L008103			1	☒	unk	---
104	88	3	4	3	Unk	K288-10J	STLC	ID8L008104			1	☒	unk	---
105	89	3	5	3	Unk	K288-10M	STLC	ID8L008105			1	☒	unk	---
106	90	3	6	3	Unk	K288-10S	STLC	ID8L008106			1	☒	unk	---
107	77	3	5	2	Unk	K288-05	STLC	ID8L008107			1	☒	unk	---
108	91	3	7	3	QC	CCV9		ID8L008108			1	☒	CCV	None
109	92	3	8	3	QC	CCB9		ID8L008109			1	☒	3XIDL	None
110	93	3	9	3	QC	IPL004WQ		ID8L008110			1	☒	1/2LOQ	None
111	94	3	10	3	QC	IPL004WX		ID8L008111			1	☒	LCS	None
112	95	3	11	3	QC	IPL004WY		ID8L008112			1	☒	LCS	None
113	96	3	12	3	Unk	K307-07A		ID8L008113			1	☒	unk	---
114	97	3	1	4	Unk	K307-07W		ID8L008114			1	☒	unk	---
115	98	3	2	4	Unk	K307-07J		ID8L008115			1	☒	unk	---
116	99	3	3	4	Unk	L039-02		ID8L008116			1	☒	unk	---
117	100	3	4	4	Unk	L039-03		ID8L008117			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Dilln Factor	CorrFact	Check	Check Table	Fail Action
118	101	3	5	4	QC	CCV10		ID8L008118			1	☒	CCV	None
119	102	3	6	4	QC	CCB10		ID8L008119			1	☒	3XIDL	None
120	103	3	7	4	QC	IPL015SB		ID8L008120			1	☒	1/2LOQ	None
121	104	3	8	4	QC	IPL015SL		ID8L008121			1	☒	LCS	None
122	105	3	9	4	QC	IPL015SC		ID8L008122			1	☒	LCS	None
123	106	3	10	4	Unk	L076-07A	XRF	ID8L008123			1	☒	unk	---
124	107	3	11	4	Unk	L076-07	XRF	ID8L008124			1	☒	unk	---
125	108	3	12	4	Unk	L076-07J	XRF	ID8L008125			1	☒	unk	---
126	109	3	1	5	Unk	L076-07M	XRF	ID8L008126			1	☒	unk	---
127	110	3	2	5	Unk	L076-07S	XRF	ID8L008127			1	☒	unk	---
128	111	3	3	5	Unk	L076-01	XRF	ID8L008128			1	☒	unk	---
129	112	3	4	5	Unk	L076-02	XRF	ID8L008129			1	☒	unk	---
130	113	3	5	5	QC	CCV11		ID8L008130			1	☒	CCV	None
131	114	3	6	5	QC	CCB11		ID8L008131			1	☒	3XIDL	None
132	115	3	7	5	Unk	L076-03	XRF	ID8L008132			1	☒	unk	---
133	116	3	8	5	Unk	L076-04	XRF	ID8L008133			1	☒	unk	---
134	117	3	9	5	Unk	L076-05	XRF	ID8L008134			1	☒	unk	---
135	118	3	10	5	Unk	L076-06	XRF	ID8L008135			1	☒	unk	---
136	119	3	11	5	QC	CCV12		ID8L008136			1	☒	CCV	None
137	120	3	12	5	QC	CCB12		ID8L008137			1	☒	3XIDL	None
138	121	4	1	1	Unk	L075-01	XRF 2u7ipR	ID8L008138			1	☒	unk	---
139	122	4	2	1	Unk	L075-02	XRF L	ID8L008139			1	☒	unk	---
140	123	4	3	1	Unk	L075-03	XRF	ID8L008140			1	☒	unk	---
141	124	4	4	1	Unk	L075-04	XRF	ID8L008141			1	☒	unk	---
142	125	4	5	1	Unk	L075-05	XRF	ID8L008142			1	☒	unk	---
143	126	4	6	1	Unk	L075-06	XRF	ID8L008143			1	☒	unk	---
144	127	4	7	1	Unk	L075-07	XRF	ID8L008144			1	☒	unk	---
145	128	4	8	1	Unk	L075-08	XRF	ID8L008145			1	☒	unk	---
146	129	4	9	1	QC	CCV13		ID8L008146			1	☒	CCV	None
147	130	4	10	1	QC	CCB13		ID8L008147			1	☒	3XIDL	None
148	135	4	3	2	Unk	K562-01A		ID8L008148			1	☒	unk	---
149	136	4	4	2	Unk	K562-01W		ID8L008149			1	☒	unk	---
150	137	4	5	2	Unk	K562-01J		ID8L008150			1	☒	unk	---
151	138	4	6	2	Unk	K562-01G		ID8L008151			1	☒	unk	---
152	139	4	7	2	Unk	K562-01H		ID8L008152			1	☒	unk	---
153	140	4	8	2	Unk	K557-25W		ID8L008153			1	☒	unk	---
154	141	4	9	2	Unk	K557-26W		ID8L008154			1	☒	unk	---
155	131	4	11	1	Blank	Blank		ID8L008155			1	☐		---
156	132	4	12	1	Blank	Blank		ID8L008156			1	☐		---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	133	4	1	2	Blank	Blank		ID8L008157			1	☐		---
158	134	4	2	2	Unk	Blank		ID8L008158			1	☒	unk	---

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00111	.00002	-.00001	.00046	.00029	.00098	.00010	.00134	.00006	-.00069	Blank
2	S20					.89759		2.6642				S20
3	S21					8.6849		24.609				S21
4	S22				.47706						.15231	S22
5	S23				4.6845						1.5711	S23
6	S24						.10155					S24
7	S25						1.0502					S25
8	S26	.27067							.92461	.15452		S26
9	S27	9.9182							8.6269	1.5041		S27
10	S28		.00569									S28
11	S29		.05666									S29
12	S30			.00149								S30
13	S31			.00588								S31
14	ICV	104.83	1.4617	1.0232	1.9684	1.4892	2.4418	2.0764	75.040	2.3560	.92545	ICV
15	ICB	.04186	.00086	.00065	.00040	.00049	.00351	.00026	-.01331	.00082	.00006	ICB
16	MRLL071	.21879	.09884	.01015	.00992	.00982	.00486*	.01006	.99926	.01023	.00920	MRLL071
17	MRLL072	.00848	-.00043	.00086	-.00024	-.00005	-.00120	-.00007	-.03471	.00021	-.00014	MRLL072
18	ICSA1	399.35	.00941	.00214	.00094	-.00010	.02961	-.00120	480.43	.00134	-.00069	ICSA1
19	ICSAB1	432.49	1.1386	1.1746	.57513	.52517	.57565	1.1359	516.04	.51563	.50970	ICSAB1
20	CCV1	104.57	1.5105	1.0405	2.0354	1.5007	2.4893	2.1064	77.049	2.4058	.96603	CCV1
21	CCB1	.04521	.00082	-.00019	.00033	.00042	.00246	.00025	.00928	.00045	.00008	CCB1
22	IPL011WB	.03356	-.00046	.00126	-.00025	-.00005	-.00150	-.00005	-.02096	-.00012	-.00007	IPL011WB
23	IPL011WL	5.9973	2.7411	.56519	.53373	.53852	.55154	.56762	54.860	.53196	.51277	IPL011WL
24	IPL011WC	5.6368	2.5955	.54058	.50583	.50707	.51932	.53576	51.486	.50461	.48475	IPL011WC
25	L020-03A	5.9746	2.6454	.58103	.51521	.50093	1.1488	.54174	63.917	.68686	.49478	L020-03A
26	L020-03	.13413	-.00019	.01065	.00793	-.00004	.62177	-.00002	14.210	.18193	-.00016	L020-03
27	L020-03J	.04908	.00164	.00120	.00182	.00017	.13313	.00005	3.1920	.03983	-.00007	L020-03J
28	L020-03M	5.9232	2.6862	.57797	.51546	.50392	1.1628	.54104	65.150	.68674	.49150	L020-03M
29	L020-03S	5.9468	2.7024	.57990	.51632	.50454	1.1736	.54123	65.127	.68555	.49029	L020-03S
30	L020-04	.17062	-.12992*	.01206	.02577	-.00012	.87712	.00001	32.941	14.679*	.00148	L020-04
31	L020-05	.25518	-.09796	.00629	.03530	-.00012	.90414	-.00002	59.181	10.918*	.00196	L020-05
32	CCV2	105.63	1.5283	1.0588	2.0431	1.5057	2.5348	2.1035	76.704	2.4616	.96584	CCV2
33	CCB2	.03887	.00088	-.00059	.00061	.00060	.00469	.00041	-.00888	.00110	.00007	CCB2
34	L020-03	.04812	-.00248	.01209	.00717	-.00002	.58633	.00018	13.103	.28218	-.00011	L020-03
35	L020-03M	5.5939	2.6088	.56230	.50301	.49419	1.1058	.52987	62.604	.76454	.47780	L020-03M
36	L020-03S	5.7608	2.6652	.57858	.51673	.50681	1.1229	.54185	63.977	.78023	.49101	L020-03S
37	L020-04	.03847	-.13167*	.00846	.02393	-.00006	.85779	.00005	31.886	14.918*	.00144	L020-04
38	L020-05	.03452	-.12118*	.00897	.03188	-.00010	.88598	.00007	54.899	13.684*	.00205	L020-05
39	L028-02	.21018	-.20558*	.00604	.04201	-.00018	.76099	.00003	69.249	23.049*	.00222	L028-02
40	L028-03	.19162	.00375	.04531	.03687	-.00012	.84177	-.00045	117.22	.11417	.04311	L028-03
41	L028-04	.06110	-.10971*	.00510	.03142	-.00018	.71493	.00008	52.550	12.295*	.00086	L028-04
42	L028-05	.15733	-.04942	.01328	.00761	-.00011	1.0113	-.00009	54.018	5.7324	.00056	L028-05
43	CCV3	104.64	1.5530	1.0770	2.0347	1.4978	2.5182	2.1085	76.768	2.4546	.96103	CCV3
44	CCB3	.03816	.00124	-.00039	.00073	.00068	.00557	.00046	-.00612	.00154	.00014	CCB3
45	L028-02	.04914	-.22508*	.00902	.04291	-.00009	.77027	.00023	75.083	24.807*	.00242	L028-02
46	L028-03	.01867	.00142	.03745	.04264	-.00009	.80892	-.00060	119.68	.16768	.03042	L028-03
47	L028-04	.02424	-.15273*	.00626	.02775	-.00017	.74534	.00000	56.808	17.161*	.00121	L028-04
48	L028-05	.02034	-.08482	.01337	.00447	-.00013	.94482	-.00005	44.165	9.4214*	.00073	L028-05
49	L027-01	.04346	.00194	.01432	.62838	-.00021	.63389	.00025	218.98	.01031	.04031	L027-01
50	L027-02	.00946	-.00097	-.00042	-.00031	-.00025	-.00373	-.00028	-.01963	-.00007	-.00029	L027-02
51	L027-04	.02284	-.00055	-.00154	.23333	-.00024	.22272	-.00016	56.375	.00049	-.00077	L027-04
52	L027-06	.02851	.00054	.01511	.94446	-.00016	.89104	-.00048	188.10	.00303	.00289	L027-06
53	L027-07	.00522	-.00107	.00027	.00013	-.00024	-.00465	-.00016	-.03515	-.00019	-.00034	L027-07
54	K270-10W	.00972	-.00166	.00417	.06493	-.00028	.17669	-.00001	144.00	.00155	-.00076	K270-10W

55	CCV4	104.30	1.5328	1.0790	2.0442	1.5038	2.5237	2.1054	77.161	2.4790	.96031	CCV4
56	CCB4	.03397	.00145	.00054	.00054	.00053	.00346	.00035	-.01064	.00080	-.00003	CCB4
57	IPL010WB	.00975	-.00068	.00124	-.00031	-.00008	-.00568	.00010	-.04802	.00009	-.00004	IPL010WB
58	IPL010WL	5.7566	2.6388	.56148	.51874	.52075	.53105	.54590	53.291	.52358	.48763	IPL010WL
59	IPL010WC	5.6748	2.5931	.56465	.50385	.51287	.55214	.53053	51.751	.51504	.46720	IPL010WC
60	TXL002SB	.01445	.00003	-.00013	.00086	-.00003	.01113	.00002	-.03687	.00009	-.00009	TXL002SB
61	K288-10A	14.124	2.5211	.56818	1.4616	.49934	.88859	.54259	54.655	.52209	.48788	K28B-10A
62	K288-10	8.6844	.00068	.00396	.97960	.00038	.39740	.00015	4.7335	.02317	.00328	K288-10
63	K288-10J	1.7270	.00063	.00208	.19742	.00012	.07685	-.00001	.93024	.00469	.00070	K288-10J
64	K288-10M	20.963	2.6098	.58037	1.4074	.51052	.87031	.55314	57.751	.54491	.49667	K288-10M
65	K288-10S	20.655	2.6148	.58520	1.3928	.51839	.86727	.56179	57.832	.53948	.50140	K288-10S
66	CCV5	104.38	1.5142	1.0589	2.0605	1.5061	2.5026	2.1070	76.766	2.4544	.96177	CCV5
67	CCB5	.02809	.00180	-.00045	.00037	.00050	.00384	.00036	-.01505	.00053	.0000B	CCB5
68	TXL003WB	.01297	-.00099	.00091	.00050	-.00001	.00417	.00012	-.02689	.00001	.00004	TXL003WB
69	K574-07A	5.0683	2.4440	.64408	.52009	.50392	.50005	.55625	51.153	.51501	.49648	K574-07A
70	K574-07	.01032	-.00568	.00494	.01498	-.00005	.01667	-.00007	.75348	-.00009	-.00003	K574-07
71	K574-07J	.01090	.00893	.00202	.00332	.00010	.00240	.00002	.18177	.00009	.00004	K574-07J
72	K574-07M	5.3806	2.6477	.70696	.57178	.54641	.55389	.60260	55.785	.54788	.53498	K574-07M
73	K574-07S	5.0220	2.4971	.67405	.53877	.51101	.52465	.56319	51.889	.51795	.50379	K574-07S
74	K574-12	.14841	.00176	.00080	.14265	-.00005	.26301	.00012	3.8402	.00111	.00098	K574-12
75	K288-05	2.3732	.00041	-.00008	.92480	.00005	.43204	.00134	11.060	.00909	.00130	K288-05
76	K288-05M	10.295	2.5538	.56359	1.4351	.49843	.97356	.53919	61.055	.50961	.47911	K288-05M
77	K288-05S	10.480	2.6038	.57669	1.4627	.50447	.99671	.54681	62.145	.52094	.48695	K2B8-05S
78	CCV6	105.23	1.5206	1.0718	2.0616	1.5022	2.5462	2.1040	76.648	2.4978	.96306	CCV6
79	CCB6	.02588	.00148	-.00010	.00041	.00034	.00402	.00028	-.02313	.00044	.00013	CCB6
80	TXL001SB	.03387	-.00038	.0006B	.00099	.00011	.01257	.00023	-.02020	.00039	-.00007	TXL001SB
81	K574-03A	5.6915	2.5375	.56676	.78589	.49614	.73406	.55345	52.811	.50586	.48223	K574-03A
82	K574-03	.09666	.00126	.00122	.29093	-.00003	.22753	.01685	3.1825	.00065	.00035	K574-03
83	K574-03J	.03102	.00193	-.00056	.06127	.00020	.04501	.00351	.65745	.00010	.00004	K574-03J
84	K574-03M	5.8235	2.6421	.58007	.81497	.51242	.78399	.56814	54.942	.51860	.48903	K574-03M
85	K574-03S	5.7879	2.6479	.58274	.82201	.51196	.78132	.57143	54.930	.51779	.49092	K574-03S
86	K574-01	.05880	.00057	-.00065	.43606	.00003	.23784	.00139	3.4570	.00035	.00022	K574-01
87	K574-02	.84756	.00204	.00086	.04849	.00004	.23532	.00127	12.335	.03220	.01619	K574-02
88	CCV7	103.16	1.4896	1.0545	2.0479	1.4943	2.4683	2.0832	75.988	2.4432	.94767	CCV7
89	CCB7	.03233	.00201	.00064	.00062	.00060	.00325	.00039	.00960	.00064	.00010	CCB7
90	K574-04	.05330	.00037	-.00073	.13482	-.00001	.19474	.00033	23.840	.00189	.00001	K574-04
91	K574-05	.04850	.00084	.00042	.18538	-.00004	2.0960	.00913	10.321	.00054	.00047	K574-05
92	K574-06	3.1410	.00317	.00059	.29406	-.00004	.23529	.04765	147.53	.00432	.19454	K574-06
93	K574-09	.19893	.00099	.00084	.31022	.00002	.31016	.01366	10.118	.00236	.00311	K574-09
94	K574-11	.02122	-.00104	-.00054	.43902	-.00006	.22863	.00000	.28490	.00028	-.00014	K574-11
95	K577-01	.02116	.00081	.00045	.13133	-.00006	.26868	.00240	18.982	.00088	.03900	K577-01
96	CCV8	103.98	1.4977	1.0580	2.0553	1.4917	2.5145	2.0796	75.819	2.4790	.95223	CCV8
97	CCBB	.03330	.00100	.00076	.00073	.00059	.00296	.00038	.01075	.00065	.00015	CCB8
98	IPL013WB	.02747	.00022	.00027	.00088	.00011	-.00107	.00005	-.00937	.00004	.00000	IPL013WB
99	IPL013WL	5.5169	2.5359	.53698	.50742	.50559	.51469	.52897	51.384	.50749	.47493	IPL013WL
100	IPL013WC	5.5518	2.5381	.54096	.50976	.50642	.51382	.53294	51.365	.51036	.47830	IPL013WC
101	WTL002SB	.01930	-.00477	.00343	.00112	.00002	-.00103	.00000	-.01634	.00587*	-.00009	WTL002SB
102	K288-10A	9.8314	3.0475	.76058	.76252	.54479	.59816	.61716	69.182	.62763	.55368	K288-10A
103	K288-10	3.2415	-.00426	.00512	.17392	.00062	.00109	.00124	13.373	.04151	.01103	K288-10
104	K288-10J	.64440	.00066	.00179	.03440	.00013	-.00159	.00021	2.7287	.00834	.00211	K288-10J
105	K288-10M	9.0988	2.7643	.68107	.69546	.48357	.54172	.55106	63.664	.56888	.49428	K288-10M
106	K288-10S	9.2797	2.8321	.70449	.71250	.50074	.55827	.56829	63.868	.57716	.50840	K288-10S
107	K288-05	2.9568	-.00119	.00817	.20791	.00069	.00228	.00444	17.918	.07164	.01170	K288-05
108	CCV9	104.98	1.4958	1.0651	2.0611	1.4879	2.5254	2.0825	75.705	2.5094	.95222	CCV9
109	CCB9	.03587	.00113	.00037	.00069	.00061	.00149	.00040	.01297	.00071	.00015	CCB9
110	IPL004WQ	.01883	-.00024	.00152	.00073	.00006	-.00619	.00026	-.01088	.00022	.00010	IPL004WQ
111	IPL004WX	5.6212	2.5665	.54931	.51782	.50791	.52060	.53599	52.582	.51795	.48145	IPL004WX

112	IPL004WY	5.4999	2.6263	.53766	.50960	.49841	.52721	.52706	50.617	.50875	.47434	IPL004WY
113	K307-07A	5.7557	2.5336	.59505	.86671	.50800	.55985	.53967	118.40	.51839	.48602	K307-07A
114	K307-07W	.05995	.00083	.03516	.35428	.00009	.03609	.00032	70.072	.00213	.00222	K307-07W
115	K307-07J	.03163	.00240	.00765	.07526	.00024	.00548	.00009	14.465	.00061	.00053	K307-07J
116	L039-02	.01755	-.00029	.00420	.08966	-.00001	.05293	.00017	65.201	.01010	-.00027	L039-02
117	L039-03	.01864	-.00101	.00409	.09373	-.00005	.05309	.00009	64.281	.00585	-.00036	L039-03
118	CCV10	104.93	1.5026	1.0677	2.0738	1.4876	2.5552	2.0801	75.516	2.5287	.95243	CCV10
119	CCB10	.03485	.00183	.00093	.00076	.00055	.00180	.00040	.01025	.00065	.00014	CCB10
120	IPL015SB	.02854	.00101	-.00156	.00047	.00014	-.00270	.00000	-.03364	.00033	-.00018	IPL015SB
121	IPL015SL	5.2051	2.4022	.51705	.50855	.49676	.46849	.53324	51.769	.51251	.48447	IPL015SL
122	IPL015SC	5.1661	2.4199	.51076	.50655	.49143	.46684	.52930	51.525	.50352	.47964	IPL015SC
123	L076-07A	68.969	2.4921	.63305	1.4054	.51785	.51715	1.1022	190.21	.62854	.54712	L076-07A
124	L076-07	68.691	.02664	.08880	.95433	.00711	.03608	.60350	155.11	.12660	.05379	L076-07
125	L076-07J	13.212	.00697	.01561	.18266	.00115	.00521	.11336	30.738	.02460	.00994	L076-07J
126	L076-07M	98.415	2.3705	.59575	1.3115	.48056	.48661	1.1194	217.89	.64796	.50202	L076-07M
127	L076-07S	107.42	2.3748	.60365	1.6752	.47783	.49944	1.1034	204.11	.66995	.52907	L076-07S
128	L076-01	91.893	.01040	.06125	.95567	.00590	.09945	.08998	41.017	.12762	.03413	L076-01
129	L076-02	72.393	.02894	.12787	.72535	.01080	.06119	.42245	117.70	.17610	.05887	L076-02
130	CCV11	105.36	1.5377	1.1062*	2.0740	1.4929	2.5841	2.0926	75.976	2.5595	.95539	CCV11
131	CCB11	.02618	.00053	-.00026	.00025	.00023	.00199	.00017	-.00735	.00025	.00001	CCB11
132	L076-03	67.816	.02249	.10053	.88938	.00828	.04398	.31376	103.83	.13571	.05827	L076-03
133	L076-04	81.373	.00996	.06038	.85054	.00572	.03430	.12802	43.800	.11776	.05464	L076-04
134	L076-05	82.070	.01519	.07664	2.0107	.00667	.02712	.27723	72.704	.12051	.15355	L076-05
135	L076-06	187.52	.01446	.07124	3.3829	.00993	.03744	.20065	58.860	.22559	.13601	L076-06
136	CCV12	105.02	1.5608	1.1275*	2.0794	1.4922	2.5869	2.0953	75.924	2.5647	.95660	CCV12
137	CCB12	.02982	.00194	.00081	.00040	.00022	.00189	.00014	-.00899	.00023	.00003	CCB12
138	L075-01	88.684	.02382	.08603	.95867	.00728	.03601	.30587	70.045	.15159	.05728	L075-01
139	L075-02	74.559	.03010	.09519	.80551	.00675	.03923	.65336	169.74	.12478	.04771	L075-02
140	L075-03	87.946	.01303	.11488	.87149	.00602	.05510	.00084	16.633	.28364	.04298	L075-03
141	L075-04	78.864	.00729	.07211	.90344	.00528	.02650	.00154	17.097	.16852	.04212	L075-04
142	L075-05	87.225	.00825	.08556	1.0378	.00624	.04611	.01202	77.866	.17497	.04801	L075-05
143	L075-06	125.29	.01070	.10540	1.2813	.00774	.05593	-.00169	18.063	.24051	.06437	L075-06
144	L075-07	91.422	.01209	.10009	.93821	.00664	.06268	.00270	17.184	.29930	.16154	L075-07
145	L075-08	134.31	.01712	.11897	.88791	.00802	.07736	-.00316	16.108	.37676	.05683	L075-08
146	CCV13	105.05	1.5520	1.1235*	2.0892	1.5013	2.5687	2.1173	76.332	2.5536	.96231	CCV13
147	CCB13	.02229	.00016	-.00033	-.00001	.00003	.00106	-.00001	.05447	.00017	-.00011	CCB13
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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ID8L008 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00148	.00012	.00004	.00009	.00003	.00005	.00029	-.00025	-.00020	.00000	Blank
2	S20			.19333			.11765					S20
3	S21			1.8973			1.1458					S21
4	S22	.34334	.06571									S22
5	S23	3.3260	2.4875									S23
6	S24							.71074				S24
7	S25							7.1376				S25
8	S26								.77033	.32732		S26
9	S27								7.2246	3.2315		S27
10	S28					.11607						S28
11	S29					.47220						S29
12	S30				.02692						.00163	S30
13	S31				.13136						.00636	S31
14	ICV	2.4542	24.197	2.3912	.50361	56.360	2.3394	2.4742	2.4588	59.467	1.0158	ICV
15	ICB	.00056	-.00772	.00029	.00007	.01999	.00078	.00028	.00052	.10926	.00039	ICB
16	MRLL071	.00989	.19692	.01016	.00958	.96666	.00985	.00975	.00989	1.0367	.00893	MRLL071
17	MRLL072	-.00015	-.01317	.00022	-.00021	.00241	.00018	-.00032	.00010	.05163	-.00102	MRLL072
18	ICSA1	.00171	190.97	-.00208	.00595	189.11	.00088	-.00199	-.00054	.19370	.00183	ICSA1
19	ICSAB1	.57815	205.32	1.0085	1.1895	202.69	.50309	1.1168	1.0615	86.360	1.1735	ICSAB1
20	CCV1	2.5343	25.154	2.4368	.52672	57.100	2.3982	2.5497	2.4977	60.339	1.0417	CCV1
21	CCB1	.00031	.00063	.00059	.00004	.03101	.00055	.00025	.00022	.10934	-.00112	CCB1
22	IPL011WB	-.00010	-.00606	.00029	.00003	.00647	.00016	-.00024	.00013	.06917	.00000	IPL011WB
23	IPL011WL	.54550	5.6597	.53236	-.00011*	51.522	.52317	.54231	.54234	54.353	.55973	IPL011WL
24	IPL011WC	.51790	5.3749	.50215	-.00006*	48.311	.49509	.50904	.51333	51.392	.53475	IPL011WC
25	L020-03A	.54335	5.4832	.51318	.00962	55.219	.50856	.54604	.52118	63.344	.56081	L020-03A
26	L020-03	.00221	.14074	.01081	.00859	8.3449	.01285	.03587	.00207	11.344	.00059	L020-03
27	L020-03J	.00136	.02812	.00238	.00229	1.8693	.00303	.00737	.00055	2.4142	-.00021	L020-03J
28	L020-03M	.53592	5.4810	.50940	.00969	56.284	.50496	.55252	.51904	64.121	.55544	L020-03M
29	L020-03S	.53581	5.4943	.51210	.00991	56.365	.50657	.55091	.51890	64.524	.56105	L020-03S
30	L020-04	.00229	.16925	.01106	.03336	23.271	.00561	.04681	.00134	21.366	.00094	L020-04
31	L020-05	.00674	.81697	.01663	.03333	42.214	.22406	.01025	.01059	17.319	.00091	L020-05
32	CCV2	2.5609	25.416	2.4273	.53125	57.057	2.4035	2.5328	2.4972	61.053	1.0620	CCV2
33	CCB2	.00071	-.00624	.00062	-.00014	.03015	.00115	.00039	.00061	.17958	-.00018	CCB2
34	L020-03	.00102	-.00949	.01218	.00905	8.7128	.01173	.02682	.00144	11.001	.00118	L020-03
35	L020-03M	.51368	5.1707	.50000	.00973	55.332	.48988	.53275	.50467	62.286	.53626	L020-03M
36	L020-03S	.52623	5.3142	.51073	.00979	56.855	.50289	.54062	.51877	63.969	.55171	L020-03S
37	L020-04	.00188	.01587	.01057	.03266	23.288	.00359	.04221	.00156	20.954	.00277	L020-04
38	L020-05	.00129	.11157	.01474	.03400	42.127	.18552	.00876	.00833	17.090	.00163	L020-05
39	L028-02	.00180	.28714	.01276	.03809	52.434	.02923	.01189	.00346	16.883	.00210	L028-02
40	L028-03	.00248	135.01	.04014	.07080	80.314	6.5490	.00115	.02488	24.403	.00748	L028-03
41	L028-04	.00570	.06438	.01410	.04209	43.366	.00883	.00405	.00125	15.516	.00241	L028-04
42	L028-05	.00191	2.3797	.01287	.04326	71.790	.71312	.00257	.00175	36.156	.00199	L028-05
43	CCV3	2.5321	25.495	2.4389	.52905	57.030	2.3861	2.5264	2.4896	60.890	1.0826	CCV3
44	CCB3	.00077	-.00563	.00036	.00063	.02115	.00118	.00037	.00044	.21719	-.00075	CCB3
45	L028-02	.00158	.04992	.01233	.04155	56.733	.02294	.01168	.00315	17.686	.00161	L028-02
46	L028-03	.00146	110.12	.03340	.06257	74.489	5.3539	.00080	.01923	22.347	.00388	L028-03
47	L028-04	.00184	.01315	.01154	.04440	46.751	.00474	.00418	.00044	16.474	.00108	L028-04
48	L028-05	.00116	.04181	.01120	.04142	66.213	.49217	.00253	.00074	33.355	.00087	L028-05
49	L027-01	.00191	59.037	.03536	.03400	514.96	27.005	-.00257	.06192	64.134	-.00058	L027-01
50	L027-02	.00000	-.00478	-.00020	-.00043	.05377	.00318	-.00054	.00042	.50002	-.00146	L027-02
51	L027-04	.00078	.04880	.03968	.00146	189.75	1.2076	-.00069	.00232	7.3700	-.00042	L027-04
52	L027-06	.00113	31.246	.02922	.02166	401.14	10.938	-.00175	.00821	32.562	-.00155	L027-06
53	L027-07	-.00025	-.01243	.00024	-.00071	.02986	.00085	-.00040	.00036	.36115	-.00105	L027-07
54	K270-10W	.00115	-.02265	.02713	.02362	35.706	-.00009	.05629	.00063	1.7021	.00688	K270-10W

55	CCV4	2.5353	25.606	2.4304	.53062	57.501	2.3928	2.5020	2.4857	61.369	1.0753	CCV4
56	CCB4	.00051	-.00592	.00088	-.00050	.02422	.00146	.00026	.00040	.16262	.00146	CCB4
57	IPL010WB	-.00006	-.01549	.00030	-.00032	-.00723	-.00003	-.00015	.00027	.19788	-.00061	IPL010WB
58	IPL010WL	.52103	5.5546	.50979	.00056*	50.405	.50307	.50282	.51789	53.368	.55468	IPL010WL
59	IPL010WC	.51262	5.4787	.49456	-.00030*	49.225	.49241	.47435	.49744	52.040	.59234	IPL010WC
60	TXL002SB	.00045	-.01533	.00047	-.00054	-.00049	-.00007	.00012	-.00007	.30378	.00145	TXL002SB
61	K288-10A	.51609	13.070	.51954	.00172	48.117	.59765	.49791	.52140	54.688	.57251	K288-10A
62	K288-10	.00461	8.2579	.02180	.00125	1.1272	.11745	.00057	.00976	2.2012	.00271	K288-10
63	K288-10J	.00084	1.6636	.00481	.00039	.22960	.02383	-.00004	.00206	.47794	-.00043	K288-10J
64	K288-10M	.52858	14.664	.53448	.00399	50.909	.62113	.51859	.53739	57.406	.58366	K288-10M
65	K288-10S	.52849	14.373	.54114	.00355	51.350	.62135	.52248	.54409	57.506	.59359	K288-10S
66	CCV5	2.5305	25.370	2.4289	.53648	57.123	2.3778	2.5193	2.4898	61.714	1.0578	CCV5
67	CCB5	.00033	-.00957	.00086	.00021	.01875	.00088	.00028	.00029	.15128	.00004	CCB5
68	TXL003WB	.00002	-.00028	.00025	-.00036	.00214	.00023	-.00006	.00043	.15792	-.00008	TXL003WB
69	K574-07A	.48931	5.3034	.49202	.00017	46.911	.49011	.52544	.52613	50.308	.79215	K574-07A
70	K574-07	.00047	-.00897	-.00003	-.00104	.22689	.00047	-.00049	-.00009	.24380	.03092	K574-07
71	K574-07J	.00014	-.01043	.00087	-.00070	.05004	.00027	-.00025	-.00002	.10788	.00659	K574-07J
72	K574-07M	.51969	5.6412	.52512	.00028	51.140	.52152	.57962	.56857	54.304	.88787	K574-07M
73	K574-07S	.49144	5.2884	.48851	.00009	47.253	.48834	.54071	.53401	50.986	.85092	K574-07S
74	K574-12	.06494	1.6707	.00128	.00093	.08437	.02252	.02570	.22307	.32534	.00084	K574-12
75	K288-05	.00306	2.1635	.02887	.00060	2.6702	.11358	-.00025	.00390	1.8652	.00217	K288-05
76	K288-05M	.51183	7.6454	.52108	.00241	49.887	.59055	.50168	.51189	55.038	.57507	K288-05M
77	K288-05S	.52300	7.7818	.52973	.00216	50.705	.60071	.50919	.51866	56.475	.58685	K288-05S
78	CCV6	2.5758	25.488	2.4248	.54063	56.747	2.3823	2.5141	2.4905	62.297	1.0703	CCV6
79	CCB6	.00024	-.01157	.00106	-.00003	.01269	.00084	.00017	.00034	.14355	-.00010	CCB6
80	TXL001SB	.00077	-.00901	.00091	-.00106	.00945	.00033	.00027	.00087	.33860	.00122	TXL001SB
81	K574-03A	.54064	5.3447	.49326	.00020	47.731	.49053	.50753	.51300	55.251	.57468	K574-03A
82	K574-03	.02357	.08850	.00116	.00047	1.1124	.00876	.00934	.00517	2.4096	.00232	K574-03
83	K574-03J	.00501	.00823	.00122	-.00023	.24897	.00205	.00179	.00097	.54134	.00078	K574-03J
84	K574-03M	.54851	5.4897	.50482	.00003	50.257	.50171	.52445	.52264	57.101	.58693	K574-03M
85	K574-03S	.54881	5.5143	.50669	.00065	49.915	.50152	.52910	.52496	57.250	.58564	K574-03S
86	K574-01	.01656	.10377	.00160	-.00114	.71792	.01408	.00017	.02071	1.1754	.00120	K574-01
87	K574-02	.15280	1.6349	.00214	.00251	3.6711	.10322	.00468	.22769	26.051	.00210	K574-02
88	CCV7	2.5043	25.151	2.4020	.53353	56.928	2.3557	2.4761	2.4564	61.369	1.0513	CCV7
89	CCB7	.00047	-.00819	.00094	.00025	.02552	.00097	.00034	.00040	.17929	-.00023	CCB7
90	K574-04	.00265	.06759	.00825	.00020	.23726	.02852	.04380	.00710	1.2954	.00209	K574-04
91	K574-05	.00136	.00691	.00143	2.7938	5.0690	.02830	.00780	.01584	2.6477	.00210	K574-05
92	K574-06	.53406	.38269	.01862	.01379	7.7232	.14163	-.00085	.08334	3.4917	.00281	K574-06
93	K574-09	.00217	.29839	.13390	.02309	.66973	.07546	.01224	.00626	2.9728	.00181	K574-09
94	K574-11	.00243	.00530	.00156	-.00040	.03372	.00032	.00486	.00032	.96476	.00183	K574-11
95	K577-01	2.5938	.66747	.01374	.04252	14.552	3.7915	-.00091	6.0588	6.5084	.00178	K577-01
96	CCV8	2.5481	25.215	2.3947	.53892	56.349	2.3560	2.4794	2.4605	62.016	1.0583	CCV8
97	CCB8	.00044	-.00748	.00122	-.00008	.02400	.00121	.00025	.00052	.18890	-.00067	CCB8
98	IPL013WB	-.00015	-.01213	-.00008	-.00004	.01817	.00012	-.00018	.00019	.10386	-.00048	IPL013WB
99	IPL013WL	.50838	5.3015	.49311	.00034*	48.647	.48599	.49755	.50254	52.558	.52720	IPL013WL
100	IPL013WC	.51178	5.3545	.49750	-.00034*	48.504	.48668	.49850	.50690	52.571	.52797	IPL013WC
101	WTL002SB	.00124	-.00891	.00036	.00133	.00435	-.00006	-.00024	.00050	2.3323*	.02344*	WTL002SB
102	K288-10A	.63352	10.788	.75160	.00266	53.137	.96262	.58059	.57439	72.236	.86327	K288-10A
103	K288-10	.00818	4.6025	.19846	.00195	2.1912	.39442	.00019	.00623	5.8042	.02789	K288-10
104	K288-10J	.00182	.91647	.04116	.00095	.46446	.08028	-.00007	.00104	1.0754	.00461	K288-10J
105	K288-10M	.56795	9.8354	.68279	.00188	48.608	.88012	.52566	.51359	67.469	.77667	K288-10M
106	K288-10S	.58506	9.9813	.69634	.00241	48.867	.88679	.53850	.52900	67.598	.80174	K288-10S
107	K288-05	.01858	4.5989	.50103	.00248	4.0586	.50933	.00030	.00932	5.6597	.02801	K288-05
108	CCV9	2.5656	25.310	2.3941	.54544	56.236	2.3299	2.4701	2.4612	62.906	1.0626	CCV9
109	CCB9	.00039	-.00980	.00049	.00084	.02487	.00105	.00043	.00039	.29898	.00077	CCB9
110	IPL004WQ	.00023	-.00734	.00040	-.00014	.00235	.00022	-.00005	.00100	.29216	-.00088	IPL004WQ
111	IPL004WX	.51930	5.3818	.49957	.00054*	49.465	.48562	.49865	.50981	55.174	.54128	IPL004WX

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	IPL004WY	.50983	5.2764	.49091	-.00067*	47.423	.47819	.51670	.50162	53.002	.52346	IPL004WY
113	K307-07A	.52610	6.2846	.51070	.00972	62.150	1.5404	.50179	.51332	56.166	.54672	K307-07A
114	K307-07W	.00178	.94191	.00928	.00927	15.148	1.0796	.00572	.00368	2.5032	-.00147	K307-07W
115	K307-07J	.00024	.18473	.00181	.00182	3.1335	.22464	.00094	.00084	.60107	-.00030	K307-07J
116	L039-02	.00061	.10090	.02083	.03041	12.607	.00712	.00268	.00005	2.7141	-.00027	L039-02
117	L039-03	.00030	.51142	.01559	.03172	12.532	.00834	.00266	.00005	2.5511	.00024	L039-03
118	CCV10	2.5999	25.273	2.3922	.55068*	56.001	2.3286	2.4620	2.4617	63.527	1.0709	CCV10
119	CCB10	.00032	-.00812	.00090	.00022	.01571	.00102	.00026	.00044	.16927	-.00066	CCB10
120	IPL015SB	-.00015	-.00129	.00050	.00049	.00600	.00060	.00019	.00007	.15881	-.00027	IPL015SB
121	IPL015SL	.50523	5.2274	.49115	-.00010*	48.728	.47739	.50855	.50976	53.642	.49902	IPL015SL
122	IPL015SC	.49730	5.1662	.48774	-.00085*	48.514	.47429	.51391	.50592	53.791	.48997	IPL015SC
123	L076-07A	.83976	116.02	2.1093	.03591	72.634	3.9451	.52032	.61722	62.286	.54258	L076-07A
124	L076-07	.33436	122.43	1.7710	.03863	27.320	3.8085	.00624	.10627	8.6758	.01202	L076-07
125	L076-07J	.06313	24.182	.34465	.00677	5.3632	.75100	-.00007	.01966	1.6636	.00214	L076-07J
126	L076-07M	.83932	122.99	2.1828	.06529	75.584	3.2054	.49474	.59036	64.087	.49706	L076-07M
127	L076-07S	.82850	129.82	2.1064	.07440	74.209	6.3967	.48996	.59112	66.048	.50335	L076-07S
128	L076-01	.3843B	100.99	.98416	.05028	15.884	2.7374	.00353	.07147	8.5499	.00632	L076-01
129	L076-02	2.3831	139.15	7.0403	.05587	49.654	2.5255	.00796	.19956	13.709	.01984	L076-02
130	CCV11	2.6144	25.450	2.4056	.55201*	56.573	2.3478	2.4619	2.4641	64.007	1.1042*	CCV11
131	CCB11	.00015	-.00877	.00048	-.00014	.00778	.00058	.00012	.00004	.12599	.00012	CCB11
132	L076-03	1.5085	117.56	4.4346	.04521	43.206	4.2977	.00559	.15172	10.252	.01224	L076-03
133	L076-04	.17976	109.07	.77641	.03735	9.5179	3.2318	.00269	.06972	5.4624	.00666	L076-04
134	L076-05	.44213	109.01	2.5371	.03966	26.933	14.443	.00571	.15030	6.1458	.00773	L076-05
135	L076-06	.17470	156.33	.58618	.08328	22.308	11.131	.00205	.16000	9.6113	.00487	L076-06
136	CCV12	2.6160	25.513	2.4074	.55035*	56.536	2.3537	2.4592	2.4660	63.695	1.1270*	CCV12
137	CCB12	.00016	-.00681	.00052	-.00050	.01013	.00098	.00006	.00007	.12900	-.00038	CCB12
138	L075-01	.38851	150.09	1.6725	.04237	24.720	2.8614	.00553	.11459	7.0346	.00772	L075-01
139	L075-02	.46319	147.81	7.0430	.04382	48.867	2.3944	.00548	.12917	8.2063	.00979	L075-02
140	L075-03	.06245	241.61	.28804	.0385B	5.4920	2.6136	.00760	.0520B	6.2427	.00703	L075-03
141	L075-04	.05768	136.04	.23958	.03469	5.2634	2.5013	.00518	.04483	4.9907	.00548	L075-04
142	L075-05	.08436	168.80	.43520	.04528	6.2425	2.9983	.00843	.07127	8.2117	.00514	L075-05
143	L075-06	.07695	244.49	.36219	.05874	7.9018	3.0306	.01012	.07170	7.9890	.00786	L075-06
144	L075-07	.07121	252.13	1.6473	.04299	5.7750	6.3204	.00942	.07206	8.4532	.00815	L075-07
145	L075-08	.06849	348.83	1.1517	.05982	8.4050	2.1212	.01267	.10223	7.2885	.00817	L075-08
146	CCV13	2.6036	25.553	2.4350	.55153*	57.084	2.3579	2.4783	2.4852	63.620	1.1203*	CCV13
147	CCB13	.00006	-.00268	.00077	.00020	-.00290	.00031	.00001	.00011	.07771	-.00071	CCB13

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00016	.00198	-.00003	-.00025	.00012	.00003	-.00005	.00260	Blank
2	S20									S20
3	S21									S21
4	S22							.15932		S22
5	S23							1.5475		S23
6	S24		1.0376							S24
7	S25		6.0607							S25
8	S26									S26
9	S27									S27
10	S28				.12862					S28
11	S29				1.2383					S29
12	S30	.04570		.12989		.02452	.01598		.62286	S30
13	S31	.22072		.63580		.12152	.07872		6.0374	S31
14	ICV	.47702	61.675	.48433	2.3960	.48842	.49212	1.5022	2.6242	ICV
15	ICB	.00024	.02975	.00021	.00051	-.00041	.00032	.00007	-.00189	ICB
16	MRLL071	.00989	1.0367	.00999	.01055	.00007	.01056	.00976	.01267*	MRLL071
17	MRLL072	-.00006	-.00185	-.00003	.00050	.00029	.00010	-.00035	.01834	MRLL072
18	ICSA1	.00022	.08508	.02077	.00053	.00108	.00110	-.00141	-.00032	ICSA1
19	ICSAB1	1.1928	89.207	.55788	.99199	1.0612	1.0581	.53682	1.1316	ICSAB1
20	CCV1	.49736	62.698	.49372	2.4117	.50648	.49870	1.4970	2.6476	CCV1
21	CCB1	.00007	.03475	.00014	.00029	-.00034	-.00008	-.00012	-.00254	CCB1
22	IPL011WB	.00007	.01315	.00024	.00028	-.00044	.00008	-.00036	.00191	IPL011WB
23	IPL011WL	.54978	56.083	.51364	.53473	.52943	.54471	.55216	.57840	IPL011WL
24	IPL011WC	.52322	53.014	.48666	.50477	.49716	.51310	.52146	.54349	IPL011WC
25	L020-03A	.53813	329.29	.62571	.48728	.49448	.50741	.52986	.58126	L020-03A
26	L020-03	.00004	283.14	.14857	.00032	.00046	.00485	.00444	.02313	L020-03
27	L020-03J	.00009	63.885	.03293	.00004	.00029	.00154	.00076	.00584	L020-03J
28	L020-03M	.54344	336.83	.63223	.48746	.50043	.51439	.52976	.58198	L020-03M
29	L020-03S	.54427	340.93	.63389	.48798	.50068	.51723	.52947	.58194	L020-03S
30	L020-04	.00045	786.63*	.47993	.00480	-.00041	.01275	.01235	-.00489	L020-04
31	L020-05	.00024	885.80*	.82343	.00355	.00025	.01065	.00356	.01108	L020-05
32	CCV2	.50635	63.900	.49923	2.4025	.50207	.49906	1.5106	2.6565	CCV2
33	CCB2	.00009	.23133	.00015	.00035	.00000	.00057	.00012	-.00235	CCB2
34	L020-03	.00002	277.81	.14187	-.00015	.00012	.00027	.00933	-.00125	L020-03
35	L020-03M	.52199	327.25	.61221	.46842	.49207	.49982	.51813	.54494	L020-03M
36	L020-03S	.53583	332.85	.62298	.47883	.50123	.51190	.53107	.56051	L020-03S
37	L020-04	.00027	778.54*	.47781	.00375	-.00057	.00554	.01138	-.01214*	L020-04
38	L020-05	.00027	886.05*	.81045	.00397	-.00103	.00596	.00334	-.01202*	L020-05
39	L028-02	.00051	722.15*	.97123	.00649	-.00113	.01569	.00593	-.01739*	L028-02
40	L028-03	.00019	832.93*	2.3878	-.00299	.00392	.01784	.00246	.00561	L028-03
41	L028-04	.00023	777.41*	.78416	.00288	-.00070	.00554	.00785	.02056	L028-04
42	L028-05	.00022	1037.7*	.57698	.00097	.00043	.01631	.00149	-.00190	L028-05
43	CCV3	.50499	64.097	.49548	2.4077	.50548	.49810	1.5101	2.6803	CCV3
44	CCB3	.00017	.39034	.00023	.00016	-.00047	.00064	-.00008	-.00231	CCB3
45	L028-02	.00046	776.28*	1.0392	.00734	-.00168	.00907	.00505	-.01944*	L028-02
46	L028-03	.00044	799.61*	2.1566	-.00244	.00202	.00117	.00113	-.00003	L028-03
47	L028-04	.00032	838.31*	.84020	.00386	-.00105	.00583	.00726	-.01076*	L028-04
48	L028-05	.00012	995.59*	.51453	.00198	-.00075	.00367	-.00026	-.00806*	L028-05
49	L027-01	.00063	2126.5*	2.2450	-.00344	.00102	.00314	.00259	.00241	L027-01
50	L027-02	.00006	1.4469	.00018	.00035	-.00028	.00003	-.00067	-.00117	L027-02
51	L027-04	.00003	489.64	.46697	.00036	-.00048	.00066	-.00119	-.00198	L027-04
52	L027-06	-.00004	800.74*	1.7111	-.00138	-.00015	.00269	-.00007	-.00041	L027-06
53	L027-07	-.00009	.78784	.00006	.00010	-.00016	-.00005	-.00070	-.00227	L027-07
54	K270-10W	-.00031	76.999	.44726	-.00013	-.00079	.00114	.01437	.00134	K270-10W

55	CCV4	.50699	64.098	.49805	2.3755	.49925	.49934	1.5128	2.6905	CCV4
56	CCB4	.00018	.35450	.00013	.00023	-.00017	.00030	-.00013	-.00243	CCB4
57	IPL010WB	.00028	.18518	-.00010	.00057	-.00053	.00015	-.00032	-.00233	IPL010WB
58	IPL010WL	.53540	54.759	.48993	.51010	.49714	.52038	.53719	.56399	IPL010WL
59	IPL010WC	.53454	53.296	.47585	.49944	.47479	.50559	.52165	.54960	IPL010WC
60	TXL002SB	.00008	332.56*	.00134	-.00089	.00047	-.00001	-.00029	-.00111	TXL002SB
61	K288-10A	.51636	371.95	.50504	.47621	.48151	.80053	.53513	1.4447	K288-10A
62	K288-10	-.00006	331.13	.03645	-.00070	.00115	.30933	.01858	.91712	K288-10
63	K288-10J	.00000	69.035	.00736	.00041	.00034	.06284	.00356	.17497	K288-10J
64	K288-10M	.54582	415.14	.53089	.48447	.50350	.86558	.55104	1.3943	K288-10M
65	K288-10S	.54381	401.84	.52939	.49256	.50637	.85924	.55200	1.3795	K288-10S
66	CCV5	.50154	64.214	.49908	2.3872	.50002	.50136	1.5030	2.6709	CCV5
67	CCB5	.00016	.26835	.00018	.00052	-.00019	.00033	-.00016	-.00207	CCB5
68	TXL003WB	-.00010	.18076	.00007	.00031	-.00047	.00065	-.00029	.00119	TXL003WB
69	K574-07A	.48011	53.701	.47959	.47481	.49275	.49972	.52487	.60523	K574-07A
70	K574-07	-.00010	2.6427	.00279	-.02174*	.01099	.00007	-.00032	.00663	K574-07
71	K574-07J	.00006	.67453	.00061	-.00431	.00225	.00031	-.00022	.00232	K574-07J
72	K574-07M	.52313	58.084	.51945	.50538	.54184	.54655	.56273	.66540	K574-07M
73	K574-07S	.49463	54.513	.49043	.46938	.50106	.50938	.52788	.62271	K574-07S
74	K574-12	.00018	2.3764	.00332	-.00065	.00054	.00002	-.00042	5.8493	K574-12
75	K288-05	-.00007	334.34	.04508	-.00189	.00069	.08477	.00507	2.0344	K288-05
76	K288-05M	.52876	385.01	.51972	.47132	.48327	.60414	.51936	2.5481	K288-05M
77	K288-05S	.54173	391.39	.53066	.47960	.48824	.60954	.52843	2.5934	K288-05S
78	CCV6	.51024	64.607	.50390	2.3806	.49706	.49767	1.5115	2.6708	CCV6
79	CCB6	.00009	.20979	.00007	.00064	-.00029	.00026	.00001	-.00226	CCB6
80	TXL001SB	.00019	339.71*	.00136	-.00059	.00013	.00011	-.00019	.00048	TXL001S8
81	K574-03A	.52307	378.12	.49059	.47250	.47624	.49603	.51774	1.1573	K574-03A
82	K574-03	.00012	337.90	.01915	-.00131	.00040	.00006	-.00036	.63522	K574-03
83	K574-03J	.00030	73.248	.00402	-.00019	.00015	.00015	-.00044	.12433	K574-03J
84	K574-03M	.54731	400.99	.50376	.48270	.49550	.51838	.52903	1.2429	K574-03M
85	K574-03S	.54463	403.10	.50618	.48339	.49882	.51823	.53036	1.2549	K574-03S
86	K574-01	.00021	326.15	.04114	-.00092	.00052	.00037	-.00032	.46048	K574-01
87	K574-02	.00020	349.40	.04214	-.00099	.00561	.00696	.00139	1.1558	K574-02
88	CCV7	.49622	63.808	.49472	2.3497	.49150	.49614	1.4830	2.6550	CCV7
89	CCB7	.00013	.27668	.00019	.00075	-.00008	.00031	.00004	-.00140	CCB7
90	K574-04	-.00004	334.96	.01594	-.00070	.00060	.00059	-.00020	.73158	K574-04
91	K574-05	.00005	377.51	.04901	-.00121	.00053	.00021	-.00037	1.3211	K574-05
92	K574-06	-.00002	375.02	.13871	-.00160	.00056	.00245	-.00026	18.102	K574-06
93	K574-09	.00013	350.81	.06239	-.00106	.00064	.00052	.00075	2.8303	K574-09
94	K574-11	.00032	345.39	.00721	-.00096	.00036	.00019	-.00028	.38162	K574-11
95	K577-01	.00004	340.46	.15842	-.00172	.00039	.00025	-.00053	5.7675	K577-01
96	CCV8	.50615	64.363	.50065	2.3524	.49035	.49420	1.4948	2.6419	CCV8
97	CCB8	.00014	.29376	.00012	.00091	-.00005	.00038	.00010	-.00125	CCB8
98	IPL013WB	.00015	.19402	.00028	-.00010	-.00014	.00011	-.00029	.00312	IPL013WB
99	IPL013WL	.51724	53.882	.48729	.49118	.48250	.51001	.51429	.54176	IPL013WL
100	IPL013WC	.52041	53.968	.4877B	.49295	.48447	.51107	.5168B	.54473	IPL013WC
101	WTL002SB	.00023	2161.4*	.00040	-.01551	.00802	.00076	-.00025	-.00186	WTL002S8
102	K288-10A	.67088	2457.9*	.61546	.49039	.53427	.75562	.60982	1.6635	K288-10A
103	K288-10	.00027	2201.5*	.07311	-.01766*	.00973	.18462	.01575	.93508	K288-10
104	K288-10J	.00005	606.54	.01460	-.00304	.00133	.03706	.00281	.17915	K288-10J
105	K288-10M	.51338	2225.6*	.56306	.43833	.46866	.68253	.54633	1.5503	K288-10M
106	K288-10S	.63690	2228.9*	.57572	.45138	.49061	.69933	.55954	1.5598	K288-10S
107	K288-05	.00023	2262.8*	.07333	-.01899*	.01032	.17008	.02335	5.0902	K2B8-05
108	CCV9	.51071	68.132*	.50257	2.3401	.48411	.49227	1.4968	2.6444	CCV9
109	CCB9	.00020	.95806*	.00023	.00028	.00007	.00022	.00000	-.00132	CCB9
110	IPL004WQ	.00019	.66219*	.00008	.00163	-.00031	.00031	-.00026	.00391	IPL004WQ
111	IPL004WX	.52856	56.391	.49729	.49581	.48253	.51263	.52066	.54883	IPL004WX

112	IPL004WY	.51699	54.289	.51166	.48742	.49895	.52764	.51124	.54579	IPL004WY
113	K307-07A	.52743	107.32	.66302	.49075	.47755	.50348	.52252	.56420	K307-07A
114	K307-07W	.00006	54.184	.17873	.00048	-.00034	.00171	-.00019	.01297	K307-07W
115	K307-07J	.00009	11.446	.03704	.00026	-.00031	.00096	-.00020	.00819	K307-07J
116	L039-02	-.00005	45.158	.82243	.00098	-.00067	.00072	.00562	.65464	L039-02
117	L039-03	-.00012	45.165	.84040	.00061	-.00065	.00095	.00415	.02674	L039-03
118	CCV10	.51651	65.467	.50840	2.3351	.48131	.49150	1.4952	2.6344	CCV10
119	CCB10	.00022	.35378	.00025	.00072	-.00008	.00024	.00003	-.00137	CCB10
120	IPL015SB	-.00021	.32811	.00003	-.00066	.02019	.00019	-.00022	-.00067	IPL015SB
121	IPL015SL	.49935	55.128	.48494	.48147	.49459	.50191	.51282	.55271	IPL015SL
122	IPL015SC	.49283	54.937	.49386	.47641	.50301	.50972	.50572	.55032	IPL015SC
123	L076-07A	.51712	56.547	.60852	.48233	.49312	.95277	.72244	92.762*	L076-07A
124	L076-07	-.00001	1.0094	.12516	-.00131	.01781	.49420	.22304	98.645*	L076-07
125	L076-07J	-.00017	.31743	.02377	-.00003	.00314	.09736	.04208	23.990	L076-07J
126	L076-07M	.49937	54.796	.61084	.44443	.47087	1.0395	.70874	98.246*	L076-07M
127	L076-07S	.49697	54.864	.60473	.44103	.46713	1.2442	.74785	99.594*	L076-07S
128	L076-01	-.00028	.78950	.09105	-.00082	.01897	1.0228	.23150	18.038	L076-01
129	L076-02	.00014	.96210	.12217	.00132	.02517	.49588	.21775	78.436*	L076-02
130	CCV11	.52566	65.733	.51163	2.3404	.48070	.49313	1.5020	2.6574	CCV11
131	CCB11	.00006	.19271	.00007	.00021	-.00031	-.00007	-.00019	.00304	CCB11
132	L076-03	-.00001	1.0201	.11377	.00052	.02088	.54502	.19742	58.695*	L076-03
133	L076-04	-.00076	.57740	.08195	-.00098	.02133	.59792	.26211	20.130	L076-04
134	L076-05	-.00062	.61826	.10624	-.00161	.02364	.47890	.23950	39.344*	L076-05
135	L076-06	-.00044	1.1951	.11683	-.00052	.03277	.52939	.34100	38.632*	L076-06
136	CCV12	.52806	65.508	.51200	2.3421	.47900	.49454	1.5046	2.6648	CCV12
137	CCB12	.00012	.17668	-.00001	.00024	-.00015	.00044	-.00032	.00109	CCB12
138	L075-01	-.00032	.64778	.08769	-.00016	.02120	.54061	.28683	56.804*	L075-01
139	L075-02	.00008	.63704	.11483	.00023	.05724	.65978	.19706	87.555*	L075-02
140	L075-03	-.00050	.35726	.07476	.00119	.01799	1.0684	.40148	1.1827	L075-03
141	L075-04	-.00063	.37599	.07962	-.00014	.01647	.76106	.29555	.95973	L075-04
142	L075-05	-.00024	.42498	.12296	.00020	.01730	.74350	.27316	2.4670	L075-05
143	L075-06	-.00035	.44492	.09262	.00059	.01938	.97606	.40244	.90853	L075-06
144	L075-07	-.00044	.32066	.09440	.00057	.01711	.94573	.38377	1.7702	L075-07
145	L075-08	-.00015	.31215	.10422	.00219	.02189	1.0116	.50018	.86269	L075-08
146	CCV13	.52331	65.652	.51036	2.3658	.48320	.49663	1.5030	2.6731	CCV13
147	CCB13	.00006	.11105	-.00014	.00037	-.00037	-.00016	-.00021	.00225	CCB13
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

I08L008 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/8/10 16:41
End Date: 12/8/10 + 23:20
TH 12/9/10

SOP #	Rev. #.
☑ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments: IEL update for CA
CCV1 Tm
CCV8, CCV12 Tse

Book #: AD8-017
Instrument No.: D8
Analytical Batch: 1D8L009
Analytical Sequence: S 10L6010 (V16)
Method File: 10L6010(V16)
Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-1601	S30	SM1B14 0203
S1	NA	S31	0204
S2		ICV	SM1B14 0901
S3		CCV	1402
S4		ICSA	1103
S5		ICSAB	0303
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL 1,3	SM1B12 8501
S9		2	SM1B14180
S10			
S11			
S12			
S16			
S17			
S18			
S20	SM1B12-100-05		
S21	SM1B14 0101		
S22	0102		
S23	01-03		
S24	01-04		
S25	0105		
S26	SM1B12-100-02		
S27	100-03		
S28	SM1B14-0201		
S29	0202		

Analyzed By: TH
Date: 12/9/10

7048

SEQUENCE FILE : ID8L009

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8L009001	Blank	16:41	12/08/10	1.000
ID8L009002	S20	16:44	12/08/10	1.000
ID8L009003	S21	16:47	12/08/10	1.000
ID8L009004	S22	16:50	12/08/10	1.000
ID8L009005	S23	16:53	12/08/10	1.000
ID8L009006	S24	16:56	12/08/10	1.000
ID8L009007	S25	16:59	12/08/10	1.000
ID8L009008	S26	17:02	12/08/10	1.000
ID8L009009	S27	17:05	12/08/10	1.000
ID8L009010	S28	17:08	12/08/10	1.000
ID8L009011	S29	17:11	12/08/10	1.000
ID8L009012	S30	17:14	12/08/10	1.000
ID8L009013	S31	17:17	12/08/10	1.000
ID8L009014	ICV	17:20	12/08/10	1.000
ID8L009015	ICB	17:22	12/08/10	1.000
ID8L009016	MRLL081	17:33	12/08/10	1.000
ID8L009017	MRLL082	17:36	12/08/10	1.000
ID8L009018	ICSA1	17:39	12/08/10	1.000
ID8L009019	ICSAB1	17:42	12/08/10	1.000
ID8L009020	CCV1	17:45	12/08/10	1.000
ID8L009021	CCB1	17:48	12/08/10	1.000
ID8L009022	IPK064WB	17:58	12/08/10	1.000
ID8L009023	IPK064WL	18:01	12/08/10	1.000
ID8L009024	IPK064WC	18:04	12/08/10	1.000
ID8L009025	K772-01A	18:06	12/08/10	1.000
ID8L009026	K772-01	18:09	12/08/10	1.000
ID8L009027	K772-01J	18:12	12/08/10	5.000
ID8L009028	ICSA2	18:15	12/08/10	1.000
ID8L009029	ICSAB2	18:18	12/08/10	1.000
ID8L009030	CCV2	18:21	12/08/10	1.000
ID8L009031	CCB2	18:24	12/08/10	1.000
ID8L009032	MRLL083	18:27	12/08/10	1.000
ID8L009033	IPL011WQ	18:29	12/08/10	1.000
ID8L009034	IPL011WX	18:32	12/08/10	1.000
ID8L009035	IPL011WY	18:35	12/08/10	1.000
ID8L009036	L020-03A	18:38	12/08/10	1.000
ID8L009037	L020-03W	18:40	12/08/10	1.000
ID8L009038	L020-03J	18:43	12/08/10	5.000
ID8L009039	L027-01T	18:46	12/08/10	10.00
ID8L009040	L027-06T	18:49	12/08/10	10.00
ID8L009041	CCV3	18:52	12/08/10	1.000
ID8L009042	CCB3	18:55	12/08/10	1.000
ID8L009043	L027-01W	18:57	12/08/10	1.000
ID8L009044	L027-02W	19:01	12/08/10	1.000
ID8L009045	L027-04W	19:04	12/08/10	1.000
ID8L009046	L027-06W	19:06	12/08/10	1.000
ID8L009047	L027-07W	19:10	12/08/10	1.000
ID8L009048	CCV4	19:12	12/08/10	1.000
ID8L009049	CCB4	19:15	12/08/10	1.000
ID8L009050	K574-07A	19:18	12/08/10	5.000
ID8L009051	K574-07T	19:21	12/08/10	5.000
ID8L009052	K574-07J	19:24	12/08/10	25.00
ID8L009053	K574-07G	19:33	12/08/10	5.000
ID8L009054	K574-07H	19:36	12/08/10	5.000

ID8L009055	CCV5	19:39	12/08/10	1.000
ID8L009056	CCB5	19:41	12/08/10	1.000
ID8L009057	L020-04T	19:44	12/08/10	10.00
ID8L009058	L020-05T	19:47	12/08/10	10.00
ID8L009059	L028-02T	19:50	12/08/10	10.00
ID8L009060	L028-03W	19:53	12/08/10	1.000
ID8L009061	L028-04T	19:56	12/08/10	10.00
ID8L009062	L028-05W	19:58	12/08/10	1.000
ID8L009063	CCV6	20:01	12/08/10	1.000
ID8L009064	CCB6	20:04	12/08/10	1.000
ID8L009065	L076-01A	20:07	12/08/10	1.000
ID8L009066	L076-01W	20:10	12/08/10	1.000
ID8L009067	L076-01J	20:12	12/08/10	5.000
ID8L009068	L028-04W	20:15	12/08/10	1.000
ID8L009069	L075-05	20:18	12/08/10	1.000
ID8L009070	L075-07	20:21	12/08/10	1.000
ID8L009071	CCV7	20:24	12/08/10	1.000
ID8L009072	CCB7	20:27	12/08/10	1.000
ID8L009073	1PL016SB	20:29	12/08/10	1.000
ID8L009074	1PL016SL	20:32	12/08/10	1.000
ID8L009075	1PL016SC	20:35	12/08/10	1.000
ID8L009076	L076-04A	20:38	12/08/10	1.000
ID8L009077	L076-04	20:40	12/08/10	1.000
ID8L009078	L076-04J	20:43	12/08/10	5.000
ID8L009079	L076-04M	20:46	12/08/10	1.000
ID8L009080	L076-04S	20:48	12/08/10	1.000
ID8L009081	L076-01	20:51	12/08/10	1.000
ID8L009082	CCV8	20:54	12/08/10	1.000
ID8L009083	CCB8	20:57	12/08/10	1.000
ID8L009084	IPL012WB	21:00	12/08/10	1.000
ID8L009085	IPL012WL	21:02	12/08/10	1.000
ID8L009086	IPL012WC	21:05	12/08/10	1.000
ID8L009087	L007-03A	21:08	12/08/10	1.000
ID8L009088	L007-03	21:10	12/08/10	1.000
ID8L009089	L007-03J	21:13	12/08/10	5.000
ID8L009090	L007-03M	21:16	12/08/10	1.000
ID8L009091	L007-03S	21:19	12/08/10	1.000
ID8L009092	L007-04	21:22	12/08/10	1.000
ID8L009093	L007-05	21:25	12/08/10	1.000
ID8L009094	CCV9	21:28	12/08/10	1.000
ID8L009095	CCB9	21:30	12/08/10	1.000
ID8L009096	L030-13	21:33	12/08/10	1.000
ID8L009097	L005-03	21:36	12/08/10	1.000
ID8L009098	L005-04	21:39	12/08/10	1.000
ID8L009099	L005-04M	21:42	12/08/10	1.000
ID8L009100	L005-04S	21:44	12/08/10	1.000
ID8L009101	L005-13	21:47	12/08/10	1.000
ID8L009102	L005-14	21:50	12/08/10	1.000
ID8L009103	ICSA2	21:53	12/08/10	1.000
ID8L009104	ICSAB2	21:56	12/08/10	1.000
ID8L009105	CCV10	21:59	12/08/10	1.000
ID8L009106	CCB10	22:01	12/08/10	1.000
ID8L009107	K362-03T	22:04	12/08/10	5.000
ID8L009108	K362-04T	22:07	12/08/10	5.000
ID8L009109	K362-05T	22:10	12/08/10	5.000
ID8L009110	K362-03T	22:13	12/08/10	5.000
ID8L009111	K362-04T	22:17	12/08/10	5.000

ID8L009112	K362-05T	22:20	12/08/10	5.000
ID8L009113	CCV11	22:23	12/08/10	1.000
ID8L009114	CCB11	22:26	12/08/10	1.000
ID8L009115	L003-02T	22:28	12/08/10	5.000
ID8L009116	L003-03T	22:31	12/08/10	5.000
ID8L009117	L003-05T	22:35	12/08/10	5.000
ID8L009118	L003-02T	22:38	12/08/10	5.000
ID8L009119	L003-03T	22:40	12/08/10	5.000
ID8L009120	L003-05T	22:44	12/08/10	5.000
ID8L009121	CCV12	22:47	12/08/10	1.000
ID8L009122	CCB12	22:49	12/08/10	1.000
ID8L009123	IPL017WB	22:52	12/08/10	1.000
ID8L009124	IPL017WL	22:55	12/08/10	1.000
ID8L009125	IPL017WC	22:58	12/08/10	1.000
ID8L009126	L119-02A	23:00	12/08/10	1.000
ID8L009127	L119-02	23:03	12/08/10	1.000
ID8L009128	L119-02J	23:06	12/08/10	5.000
ID8L009129	L119-02M	23:09	12/08/10	1.000
ID8L009130	L119-02S	23:12	12/08/10	1.000
ID8L009131	L119-01	23:14	12/08/10	1.000
ID8L009132	CCV13	23:17	12/08/10	1.000
ID8L009133	CCB13	23:20	12/08/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : ID8L009 DATE : 12/08/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	102	106	101	100	100	105	104	98	95	102	98	96	107	93	95	101	103	104	106	103	104	99	95	100	98	98	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL081	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	101	----	----	----	----	----	----	97	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	105	107	108	107	99	103	107	99	96	95	107	95	94	112	97	93	104	103	111	109	112	110	103	91	99	97	98	107
CCV1	108	103	106	100	99	101	105	104	99	95	102	99	96	107	93	95	101	103	104	107	103	105	99	95	100	97	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	101	----	----	----	----	----	----	98	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	103	108	110	106	98	104	107	98	96	94	107	94	94	111	94	93	104	103	110	110	113	110	103	91	100	97	99	107
CCV2	107	102	105	99	99	99	104	104	98	94	101	99	96	105	93	94	100	102	103	106	102	104	98	94	100	97	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL083	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	102	105	99	98	99	104	103	98	94	100	99	95	105	93	93	100	101	103	106	101	104	98	94	100	96	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	106	104	110	99	99	101	103	106	104	91	97	105	95	105	96	95	96	99	104	109	103	105	98	91	100	97	101	111*
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	106	102	107	98	99	98	104	106	100	93	97	101	95	104	96	95	98	101	103	107	101	104	97	93	99	97	99	108
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	104	108	99	99	99	104	104	99	93	99	100	95	105	94	94	98	101	103	109	101	105	97	93	99	97	98	108
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	105	105	110	99	99	99	104	105	99	94	99	100	96	104	95	94	99	101	103	110	102	103	97	94	99	97	98	107
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	106	105	110	99	99	100	104	105	100	94	100	100	96	105	95	95	99	101	103	111*	103	104	98	94	98	97	98	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	104	109	100	100	98	105	104	97	94	99	98	96	106	95	94	100	102	104	109	101	105	98	94	99	98	97	107
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	102	----	----	----	----	----	----	99	----	----	----	95	----	----	96	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	101	109	112	106	99	103	107	98	97	93	105	94	94	111	96	93	102	101	112	112	112	110	103	90	98	97	98	108
CCV10	106	104	109	100	100	99	105	105	99	94	100	99	96	106	96	95	99	101	105	110	103	105	98	94	99	98	98	107
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	105	103	108	101	100	99	105	104	98	94	100	98	96	107	95	95	100	102	105	109	102	106	99	94	98	98	97	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	106	105	110	100	100	100	104	104	100	94	100	99	96	106	95	95	99	101	105	111*	103	105	98	93	97	97	97	106
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	105	103	108	101	100	98	105	104	98	94	99	98	96	106	94	94	100	102	104	109	101	105	99	94	97	97	96	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L009 (SOIL) DATE : 12/08/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	26.2	.520	.770	.780	.600	3.53	.170	46.9	.630	.120	.650	5.20	.410	1.000	28.0	1.01	.520	.050	24.4	-.570	.140	25.6	.240	.910	.320	.250	.400	2.01
MRLL0B1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.48	-2.63	.920	-.130	10.1	1.68	----	1.17	-.760	1.89	----	1.42	6.72	----	.620	-1.89	-1.24	57.6	.190	.310	78.1	20.9	-2.11	3.00	1.53	-.620	1.94
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	26.4	.510	.140	.180	.320	2.63	.110	30.6	.070	.120	.110	10.6	-.500	1.12	22.3	.510	.300	-.150	7.55	-.110	-.020	21.3	.180	.050	.610	.200	.160	-.550
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	7.36	1.49	.980	-.070	12.8	1.74	----	1.18	-.730	1.84	----	-.320	6.33	----	.660	-1.84	-1.13	61.7	1.62	.070	172	21.2	-2.34	2.44	1.67	-.720	1.31
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	35.5	1.69	.060	.470	.350	3.03	.190	254	.220	.130	.450	14.7	-.790	1.05	42.8	.530	.440	.110	25.7	.240	-.010	38.4	.240	.180	.700	.480	.200	9.68
MRLL083	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	8.89	1.39	-.280	.420	.400	2.89	.170	22.3	.160	.120	.430	.400	-.710	1.59	21.1	.730	.380	-.130	21.6	-.220	.060	63.8	.170	.120	-.050	.110	.170	1.71
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	38.8	1.44	.530	1.30	1.02	5.05	.710	52.9	1.02	.320	.960	12.0	.230	1.13	72.1	2.31	1.03	.770	59.3	.360	.340	245	.390	1.03	.240	.300	.570	1.000
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.9	1.07	.250	.730	.520	2.62	.290	15.9	.470	.210	.500	3.31	-.170	.910	22.2	.770	.500	.320	-1.29	.010	.110	78.2	.160	.930	.480	.180	.180	.490
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	22.3	.620	.770	.740	.650	3.82	.380	24.6	.870	.200	.600	7.29	.190	1.64	39.5	.980	.550	.230	67.9	.050	.140	283	.310	.990	.140	.100	.350	.070
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	3.50	.770	-.570	.230	.140	2.03	.050	2.16	.020	.030	.330	4.17	-.400	1.51	15.3	.400	.260	-.210	4.91	-.480	.050	70.4	.130	-.010	.250	.200	.010	.290
IPL016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	1.73	.840	-.140	-.020	.100	2.22	.030	-5.65	-.170	.090	.230	.780	-.360	.360	5.55	.130	.240	-.210	12.4	-.630	.040	34.4	.090	.330	.330	.020	-.180	.810
IPL012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	26.3	1.92	.450	.610	.530	2.95	.370	30.4	.560	.240	.880	4.34	.050	1.82	27.8	.900	.700	.240	67.6	-1.12	.220	111	.460	.290	.460	.340	.360	1.02
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	8.74	-2.04	1.38	.040	9.83	-.460	----	1.39	-.520	2.03	----	1.02	7.52	----	.970	-1.45	-.920	83.8	.470	.330	211	21.6	-1.59	1.83	1.94	-.540	.550
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	39.3	1.10	-1.10	.450	.390	2.11	.160	54.2	.220	.010	.420	14.9	-.040	1.40	42.1	.630	.320	-.020	82.6	-.090	.100	69.5	.190	.310	.430	-.380	.140	.210
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	22.5	1.66	-.500	.650	.490	1.81	.240	14.4	2.19	.140	.580	5.83	.220	1.39	28.1	.670	.620	-.010	69.6	.700	-.010	113	.210	.390	.180	.310	.180	.180
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	25.2	1.25	-.030	.650	.520	2.09	.290	17.5	1.67	.140	.650	3.42	-.080	1.42	38.5	.770	.610	.130	60.5	-.370	.000	137	.200	.480	.270	.250	.300	.310
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	23.5	1.89	.270	.700	.540	2.54	.300	19.8	.540	.280	.730	3.27	-.100	1.28	30.3	.830	.590	.110	65.0	-.160	.080	114	.260	.520	.190	.250	.370	.410

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

7057

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L009001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L009002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L009003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L009004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L009005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L009006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L009007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L009008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L009009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L009010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L009011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L009012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L009013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8L009014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L009015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL081		ID8L009016			1	☒	MRL-EMAX	None
17	4	2	4	1	Unk	MRLL082		ID8L009017			1	☒	unk	---
18	5	2	5	1	QC	ICSA1		ID8L009018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L009019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L009020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L009021			1	☒	3XIDL	None
22	53	2	5	5	QC	IPK064WB		ID8L009022			1	☒	1/2LOQ	None
23	54	2	6	5	QC	IPK064WL		ID8L009023			1	☒	LCS	None
24	55	2	7	5	QC	IPK064WC		ID8L009024			1	☒	LCS-200.7	None
25	56	2	8	5	Unk	K772-01A		ID8L009025			1	☒	unk	---
26	57	2	9	5	Unk	K772-01		ID8L009026			1	☒	unk	---
27	58	2	10	5	Unk	K772-01J		ID8L009027			1	☒	unk	---
28	59	2	11	5	QC	ICSA2		ID8L009028			1	☒	ICSA	None
29	60	2	12	5	QC	ICSAB2		ID8L009029			1	☒	ICSAB	None
30	61	3	1	1	QC	CCV2		ID8L009030			1	☒	CCV	None
31	62	3	2	1	QC	CCB2		ID8L009031			1	☒	3XIDL	None
32	102	3	6	4	QC	MRLL083		ID8L009032			1	☒	MRL-EMAX	None
33	103	3	7	4	QC	IPL011WQ		ID8L009033			1	☒	1/2LOQ	None
34	104	3	8	4	QC	IPL011WX		ID8L009034			1	☒	LCS	None
35	105	3	9	4	QC	IPL011WY		ID8L009035			1	☒	LCS	None
36	9	2	9	1	Unk	L020-03A	TOT	ID8L009036			1	☒	unk	---
37	10	2	10	1	Unk	L020-03W	TOT	ID8L009037			1	☒	unk	---
38	11	2	11	1	Unk	L020-03J	TOT	ID8L009038			1	☒	unk	---
39	13	2	1	2	Unk	L027-01T	10X	ID8L009039			1	☒	unk	---

7058

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	15	2	3	2	Unk	L027-06T	10X	ID8L009040			1	☒	unk	—
41	106	3	10	4	QC	CCV3		ID8L009041			1	☒	CCV	None
42	107	3	11	4	QC	CCB3		ID8L009042			1	☒	3XIDL	None
43	12	2	12	1	Unk	L027-01W		ID8L009043			1	☒	unk	—
44	14	2	2	2	Unk	L027-02W		ID8L009044			1	☒	unk	---
45	108	3	12	4	Unk	L027-04W		ID8L009045			1	☒	unk	—
46	109	3	1	5	Unk	L027-06W		ID8L009046			1	☒	unk	---
47	16	2	4	2	Unk	L027-07W		ID8L009047			1	☒	unk	—
48	17	2	5	2	QC	CCV4		ID8L009048			1	☒	CCV	None
49	18	2	6	2	QC	CCB4		ID8L009049			1	☒	3XIDL	None
50	19	2	7	2	Unk	K574-07A	5X TCLP	ID8L009050			1	☒	unk	—
51	20	2	8	2	Unk	K574-07T	5X TCLP	ID8L009051			1	☒	unk	---
52	21	2	9	2	Unk	K574-07J	25X TCLP	ID8L009052			1	☒	unk	—
53	22	2	10	2	Unk	K574-07G	5X TCLP	ID8L009053			1	☒	unk	---
54	23	2	11	2	Unk	K574-07H	5X TCLP	ID8L009054			1	☒	unk	—
55	24	2	12	2	QC	CCV5		ID8L009055			1	☒	CCV	None
56	25	2	1	3	QC	CCB5		ID8L009056			1	☒	3XIDL	None
57	26	2	2	3	Unk	L020-04T	10X TOT	ID8L009057			1	☒	unk	—
58	27	2	3	3	Unk	L020-05T	10X TOT	ID8L009058			1	☒	unk	—
59	28	2	4	3	Unk	L028-02T	10X TOT	ID8L009059			1	☒	unk	—
60	29	2	5	3	Unk	L028-03W	TOT	ID8L009060			1	☒	unk	---
61	30	2	6	3	Unk	L028-04T	10X TOT	ID8L009061			1	☒	unk	—
62	31	2	7	3	Unk	L028-05W	TOT	ID8L009062			1	☒	unk	—
63	32	2	8	3	QC	CCV6		ID8L009063			1	☒	CCV	None
64	33	2	9	3	QC	CCB6		ID8L009064			1	☒	3XIDL	None
65	34	2	10	3	Unk	L076-01A	XRF	ID8L009065			1	☒	unk	—
66	35	2	11	3	Unk	L076-01W	XRF	ID8L009066			1	☒	unk	—
67	36	2	12	3	Unk	L076-01J	XRF	ID8L009067			1	☒	unk	—
68	37	2	1	4	Unk	L028-04W	DISS	ID8L009068			1	☒	unk	---
69	38	2	2	4	Unk	L075-05	dried & sieved	ID8L009069			1	☒	unk	—
70	39	2	3	4	Unk	L075-07	dried & sieved	ID8L009070			1	☒	unk	—
71	40	2	4	4	QC	CCV7		ID8L009071			1	☒	CCV	None
72	41	2	5	4	QC	CCB7		ID8L009072			1	☒	3XIDL	None
73	42	2	6	4	QC	IPL016SB		ID8L009073			1	☒	1/2LOQ	None
74	43	2	7	4	QC	IPL016SL		ID8L009074			1	☒	LCS	None
75	44	2	8	4	QC	IPL016SC		ID8L009075			1	☒	LCS	None
76	45	2	9	4	Unk	L076-04A	dried & sieved	ID8L009076			1	☒	unk	—
77	46	2	10	4	Unk	L076-04	dried & sieved	ID8L009077			1	☒	unk	—
78	47	2	11	4	Unk	L076-04J	dried & sieved	ID8L009078			1	☒	unk	---

7059

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	48	2	12	4	Unk	L076-04M	dried & sieved	ID8L009079			1	☒	unk	---
80	49	2	1	5	Unk	L076-04S	dried & sieved	ID8L009080			1	☒	unk	---
81	50	2	2	5	Unk	L076-01	dried & sieved	ID8L009081			1	☒	unk	---
82	51	2	3	5	QC	CCV8	↑Se	ID8L009082			1	☒	CCV	None
83	52	2	4	5	QC	CCB8		ID8L009083			1	☒	3XIDL	None
84	63	3	3	1	QC	IPL012WB		ID8L009084			1	☒	1/2LOQ	None
85	64	3	4	1	QC	IPL012WL		ID8L009085			1	☒	LCS	None
86	65	3	5	1	QC	IPL012WC		ID8L009086			1	☒	LCS	None
87	66	3	6	1	Unk	L007-03A		ID8L009087			1	☒	unk	---
88	67	3	7	1	Unk	L007-03		ID8L009088			1	☒	unk	---
89	68	3	8	1	Unk	L007-03J		ID8L009089			1	☒	unk	---
90	69	3	9	1	Unk	L007-03M		ID8L009090			1	☒	unk	---
91	70	3	10	1	Unk	L007-03S		ID8L009091			1	☒	unk	---
92	71	3	11	1	Unk	L007-04		ID8L009092			1	☒	unk	---
93	72	3	12	1	Unk	L007-05		ID8L009093			1	☒	unk	---
94	73	3	1	2	QC	CCV9		ID8L009094			1	☒	CCV	None
95	74	3	2	2	QC	CCB9		ID8L009095			1	☒	3XIDL	None
96	75	3	3	2	Unk	L030-13		ID8L009096			1	☒	unk	---
97	76	3	4	2	Unk	L005-03		ID8L009097			1	☒	unk	---
98	77	3	5	2	Unk	L005-04		ID8L009098			1	☒	unk	---
99	78	3	6	2	Unk	L005-04M		ID8L009099			1	☒	unk	---
100	79	3	7	2	Unk	L005-04S		ID8L009100			1	☒	unk	---
101	80	3	8	2	Unk	L005-13		ID8L009101			1	☒	unk	---
102	81	3	9	2	Unk	L005-14		ID8L009102			1	☒	unk	---
103	82	3	10	2	QC	ICSA2		ID8L009103			1	☒	ICSA	None
104	83	3	11	2	QC	ICSAB2		ID8L009104			1	☒	ICSAB	None
105	84	3	12	2	QC	CCV10		ID8L009105			1	☒	CCV	None
106	85	3	1	3	QC	CCB10		ID8L009106			1	☒	3XIDL	None
107	86	3	2	3	Unk	K362-03T	5X TOT	ID8L009107			1	☒	unk	---
108	87	3	3	3	Unk	K362-04T	5X TOT	ID8L009108			1	☒	unk	---
109	88	3	4	3	Unk	K362-05T	5X TOT	ID8L009109			1	☒	unk	---
110	89	3	5	3	Unk	K362-03T	5X DISS	ID8L009110			1	☒	unk	---
111	90	3	6	3	Unk	K362-04T	5X DISS	ID8L009111			1	☒	unk	---
112	91	3	7	3	Unk	K362-05T	5X DISS	ID8L009112			1	☒	unk	---
113	92	3	8	3	QC	CCV11		ID8L009113			1	☒	CCV	None
114	93	3	9	3	QC	CCB11		ID8L009114			1	☒	3XIDL	None
115	94	3	10	3	Unk	L003-02T	5X TOT	ID8L009115			1	☒	unk	---
116	95	3	11	3	Unk	L003-03T	5X TOT	ID8L009116			1	☒	unk	---
117	96	3	12	3	Unk	L003-05T	5X TOT	ID8L009117			1	☒	unk	---

7060

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
118	97	3	1	4	Unk	L003-02T	5X DISS	ID8L009118			1	☒	unk	—
119	98	3	2	4	Unk	L003-03T	5X DISS	ID8L009119			1	☒	unk	—
120	99	3	3	4	Unk	L003-05T	5X DISS	ID8L009120			1	☒	unk	—
121	100	3	4	4	QC	CCV12	Ke	ID8L009121			1	☒	CCV	None
122	101	3	5	4	QC	CCB12		ID8L009122			1	☒	3XIDL	None
123	110	3	2	5	QC	IPL017WB		ID8L009123			1	☒	1/2LOQ	None
124	111	3	3	5	QC	IPL017WL		ID8L009124			1	☒	LCS	None
125	112	3	4	5	QC	IPL017WC		ID8L009125			1	☒	LCS	None
126	113	3	5	5	Unk	L119-02A		ID8L009126			1	☒	unk	—
127	114	3	6	5	Unk	L119-02		ID8L009127			1	☒	unk	—
128	115	3	7	5	Unk	L119-02J		ID8L009128			1	☒	unk	—
129	116	3	8	5	Unk	L119-02M		ID8L009129			1	☒	unk	—
130	117	3	9	5	Unk	L119-02S		ID8L009130			1	☒	unk	—
131	118	3	10	5	Unk	L119-01		ID8L009131			1	☒	unk	—
132	119	3	11	5	QC	CCV13		ID8L009132			1	☒	CCV	None
133	120	3	12	5	QC	CCB13		ID8L009133			1	☒	3XIDL	None

ID8L009 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00147	.00002	-.00001	.00030	.00015	.00087	-.00031	.00071	.00005	-.00085	Blank
2	S20					.90920		2.7232				S20
3	S21					8.6736		24.934				S21
4	S22				.49513						.15938	S22
5	S23				4.8724						1.6534	S23
6	S24						.10459					S24
7	S25						1.0672					S25
8	S26	.27349							.87664	.15078		S26
9	S27	9.9265							8.0892	1.4327		S27
10	S28		.00564									S28
11	S29		.05511									S29
12	S30			.00142								S30
13	S31			.00571								S31
14	ICV	107.25	1.5332	1.0576	2.0156	1.4959	2.4904	2.0935	77.964	2.4603	.95416	ICV
15	ICB	.02622	.00052	.00077	.00078	.00060	.00353	.00017	.04685	.00063	.00012	ICB
16	MRLL081	.22115	.10385	.01045	.01025	.01009	.00377*	.01040	9.5739*	.01028	.00939	MRLL081
17	MRLL082	-.00808	.00009	.00084	-.00027	-.00006	-.00179	-.00012	-.00216	.00004	-.00001	MRLL082
18	ICSA1	405.63	.00748	-.00263	.00092	-.00013	.01013	.00168	485.75	.00117	-.00076	ICSA1
19	ICSAB1	419.59	1.0690	1.0846	.53262	.49315	.51305	1.0692	495.78	.48004	.47354	ICSAB1
20	CCV1	108.12	1.5435	1.0603	2.0049	1.4890	2.5166	2.0904	77.776	2.4795	.95437	CCV1
21	CCB1	.02644	.00051	.00014	.00018	.00032	.00263	.00011	.03059	.00007	.00012	CCB1
22	IPK064WB	.00449	-.00041	.00088	.00018	-.00003	-.00113	-.00006	.08928	-.00013	.00004	IPK064WB
23	IPK064WL	5.7514	2.6355	.54242	.49904	.50506	.51323	.53625	52.112	.49599	.47756	IPK064WL
24	IPK064WC	5.8734*	2.6838	.55020	.50540	.50608	.52115	.54163	52.779	.50836	.48365	IPK064WC
25	K772-01A	6.0790	2.6831	.57835	.54731	.49353	.92276	.54005	141.75	.50183	.48239	K772-01A
26	K772-01	.02781	.00360	.00004	.05364	-.00005	.47646	.00022	110.73	.00052	.00002	K772-01
27	K772-01J	.00001	.00273	.00048	.00918	.00020	.07467	.00011	19.432	.00017	.00012	K772-01J
28	ICSA2	402.50	.00736	.00149	.00098	-.00007	.01278	.00174	490.48	.00118	-.00073	ICSA2
29	ICSAB2	410.63	1.0805	1.1004	.53163	.49232	.51969	1.0716	488.29	.48242	.47167	ICSAB2
30	CCV2	107.07	1.5344	1.0520	1.9810	1.4794	2.4846	2.0794	77.670	2.4490	.94488	CCV2
31	CCB2	.03546	.00169	.00006	.00047	.00035	.00303	.00019	.25407	.00022	.00013	CCB2
32	MRLL083	.22719	.10417	.01029	.01078	.01064	.00511*	.01098	1.1720	.01082	.00989	MRLL083
33	IPL011WQ	.01802	.00091	-.00088	.00005	.00001	-.00207	-.00010	.07911	-.00012	.00008	IPL011WQ
34	IPL011WX	5.7778	2.6447	.54374	.49784	.50587	.51800	.53609	52.847	.50905	.47944	IPL011WX
35	IPL011WY	5.7905	2.6647	.54891	.50259	.50630	.51664	.54107	52.744	.50927	.48184	IPL011WY
36	L020-03A	6.1588	2.6636	.57918	.51250	.49906	1.1110	.54523	64.745	.67367	.49056	L020-03A
37	L020-03W	.12481	-.00022	.01044	.00793	-.00008	.62043	-.00005	14.490	.18387	-.00001	L020-03W
38	L020-03J	.02141	.00180	.00173	.00157	.00004	.11795	-.00006	2.9125	.03605	-.00003	L020-03J
39	L027-01T	.00115	.00156	.00100	.05960	-.00003	.05932	-.00021	23.419	.00056	.00407	L027-01T
40	L027-06T	-.00373	.00054	.00159	.09144	-.00007	.08262	-.00021	19.694	.00020	.00027	L027-06T
41	CCV3	107.25	1.5328	1.0504	1.9862	1.4755	2.4636	2.0724	77.269	2.4378	.93917	CCV3
42	CCB3	.00889	.00139	-.00028	.00042	.00040	.00289	.00017	.02233	.00016	.00012	CCB3
43	L027-01W	.04275	.00272	.01670	.62064	-.00008	.63378	.00167	222.33	.00573	.03996	L027-01W
44	L027-02W	.00957	-.00075	.00041	.00035	.00000	-.00367	-.00006	.07533	.00003	.00010	L027-02W
45	L027-04W	.01413	.00024	-.00302	.22979	-.00006	.22068	.00012	56.606	.00065	-.00061	L027-04W
46	L027-06W	.02045	.00087	.01555	.92911	-.00007	.88952	.00002	191.30	.00297	.00297	L027-06W
47	L027-07W	-.00566	-.00087	.00017	.00036	-.00007	-.00433	-.00011	-.00713	-.00025	-.00004	L027-07W
48	CCV4	105.67	1.5543	1.0987	1.9837	1.4912	2.5151	2.0681	79.505	2.6098	.91453	CCV4
49	CCB4	.03881	.00144	.00053	.00130	.00102	.00505	.00071	.05295	.00102	.00032	CCB4
50	K574-07A	5.4233	2.5221	.58636	.48863	.51103	.49763	.54339	54.601	.53782	.47522	K574-07A
51	K574-07T	.06399	.00646	.00169	.01674	.01411	.00930	.00110	1.7233	.00733	.00118	K574-07T
52	K574-07J	.00028	.00217	.00017	.00108	.00041	.00062	.00012	.07302	.00014	.00020	K574-07J
53	K574-07G	1.0683	.50563	.11422	.10628	.10443	.10123	.10887	11.276	.10582	.09615	K574-07G
54	K574-07H	1.0584	.49748	.11336	.10585	.10349	.09993	.10797	11.162	.10484	.09541	K574-07H

55	CCV5	105.68	1.5288	1.0666	1.9679	1.4896	2.4581	2.0735	79.815	2.5015	.92729	CCV5
56	CCB5	.01593	.00107	.00025	.00073	.00052	.00262	.00029	.01586	.00047	.00021	CCB5
57	L020-04T	.01007	-.01281	.00089	.00243	.00004	.08177	.00003	3.5553	1.5605	.00027	L020-04T
58	L020-05T	.01771	-.00932	.00065	.00340	.00003	.08410	-.00005	6.3820	1.1433	.00013	L020-05T
59	L028-02T	.01221	-.02123	.00115	.00397	-.00002	.06904	-.00005	7.4052	2.4576	.00028	L028-02T
60	L028-03W	.17520	.00294	.04475	.03504	-.00004	.79075	-.00044	119.69	.11308	.04066	L028-03W
61	L028-04T	-.00231	-.00864	.00151	.00284	-.00005	.06314	-.00007	5.2956	1.1749	.00000	L028-04T
62	L028-05W	.14986	-.05339	.01285	.00722	-.00010	1.0051	-.00003	56.421	5.9459	.00082	L028-05W
63	CCV6	106.10	1.5570	1.0830	1.9890	1.4833	2.4710	2.0754	78.207	2.4829	.92889	CCV6
64	CCB6	.02232	.00062	.00077	.00074	.00065	.00382	.00038	.02463	.00087	.00020	CCB6
65	L076-01A	99.288	2.5176	.60416	1.4032	.51366	.57035	.63521	93.115	.63759	.52635	L076-01A
66	L076-01W	92.935	.00952	.06185	.91388	.00662	.09531	.09259	42.565	.12652	.03482	L076-01W
67	L076-01J	18.695	.00152	.01156	.17959	.00112	.01827	.01732	8.5111	.02469	.00653	L076-01J
68	L028-04W	.03506	-.14966*	.00667	.02564	-.00009	.68353	.00009	54.836	16.386*	.00114	L028-04W
69	L075-05	83.299	.01259	.09987	1.1990	.00759	.03728	.02659	103.05	.19287	.06207	L075-05
70	L075-07	88.226	.01225	.09307	1.0394	.00682	.03955	.00895	22.285	.25806	.07730	L075-07
71	CCV7	104.93	1.5781	1.0972	1.9710	1.4826	2.4678	2.0870	78.807	2.4707	.93525	CCV7
72	CCB7	.00350	.00077	-.00057	.00023	.00014	.00203	.00005	.00216	.00002	.00003	CCB7
73	IPL016SB	.02318	.00153	-.00115	.00048	.00019	.00031	.00002	.02152	.00032	.00005	IPL016SB
74	IPL016SL	5.2167	2.5762	.53670	.49729	.50338	.45901	.55092	54.416	.51139	.49114	IPL016SL
75	IPL016SC	5.3356	2.6083	.54961	.50531	.51370	.46787	.55990	53.782	.52092	.49836	IPL016SC
76	L076-04A	80.961	2.5433	.60584	1.5782	.50574	.48541	.70180	102.98	.61935	.56977	L076-04A
77	L076-04	75.729	.01285	.06546	1.1201	.00696	.02222	.16293	53.780	.12001	.08059	L076-04
78	L076-04J	15.337	.00223	.01288	.21594	.00134	.00329	.02988	10.633	.02349	.01507	L076-04J
79	L076-04M	120.69	2.4767	.59895	1.6616	.49744	.45351	.69460	105.77	.64126	.56356	L076-04M
80	L076-04S	109.30	2.4478	.59756	1.6412	.49825	.43237	.69817	105.66	.63239	.56345	L076-04S
81	L076-01	74.819	.01337	.07522	1.0912	.00640	.02383	.12073	52.405	.12163	.04272	L076-01
82	CCV8	105.80	1.5799	1.1041*	1.9848	1.4884	2.4963	2.0897	78.799	2.5030	.93654	CCV8
83	CCB8	.00173	.00084	-.00014	-.00002	.00010	.00222	.00003	-.00565	-.00017	.00009	CCB8
84	IPL012WB	.01930	.00016	-.00004	.00003	-.00002	-.00158	-.00007	.01726	-.00021	.00020	IPL012WB
85	IPL012WL	5.6442	2.7104	.56429	.49325	.50486	.50546	.53296	52.981	.50702	.46892	IPL012WL
86	IPL012WC	5.7105	2.7227	.57107	.49976	.50634	.51072	.53495	52.895	.51042	.47398	IPL012WC
87	L007-03A	6.7122	2.7667	.60162	.58859	.50556	.82789	.54872	143.66	.52290	.48518	L007-03A
88	L007-03	.79417	.00118	.00154	.08228	.00015	.30579	.00017	96.864	.01196	.00123	L007-03
89	L007-03J	.14822	.00187	-.00028	.01651	.00020	.05699	.00003	19.677	.00255	.00022	L007-03J
90	L007-03M	6.6077	2.7899	.59076	.58689	.50226	.84391	.54287	147.66	.51941	.47705	L007-03M
91	L007-03S	6.6297	2.7540	.58214	.59019	.50299	.84082	.54228	147.16	.51607	.47722	L007-03S
92	L007-04	.00862	.00073	.00185	.04591	-.00005	.08470	.00002	45.817	.00422	-.00008	L007-04
93	L007-05	.00178	-.00006	.00444	.04108	-.00006	.01336	-.00002	22.764	.00285	-.00008	L007-05
94	CCV9	105.34	1.5630	1.0889	2.0039	1.4928	2.4578	2.0970	78.151	2.4369	.93922	CCV9
95	CCB9	.02632	.00192	.00045	.00061	.00053	.00295	.00037	.03036	.00056	.00024	CCB9
96	L030-13	.05442	-.00044	.00181	.38691	.00008	.32840	.00075	146.94	.00296	.00013	L030-13
97	L005-03	.00791	-.00052	.00247	.36497	-.00007	.09185	.00005	140.58	.00180	.00034	L005-03
98	L005-04	.00884	-.00044	.00109	.25217	.00000	.03999	.00010	88.986	.00061	.00010	L005-04
99	L005-04M	5.9469	2.7667	.58539	.76459	.51641	.56871	.54983	140.92	.51739	.48347	L005-04M
100	L005-04S	5.8813	2.7484	.57984	.75619	.50937	.57056	.54187	139.57	.51653	.47716	L005-04S
101	L005-13	.14772	.00278	.01615	.19383	-.00005	.02382	.00041	26.014	.00115	.00025	L005-13
102	L005-14	.04125	-.00023	.00105	.59600	-.00004	.05811	.00016	107.35	.00243	.00000	L005-14
103	ICSA2	407.62	.00874	-.00204	.00138	.00004	.00983	-.00046	495.95	.00139	-.00052	ICSA2
104	ICSAB2	403.72	1.0874	1.1247	.53187	.49437	.51386	1.0670	491.85	.48472	.46450	ICSAB2
105	CCV10	106.44	1.5610	1.0884	2.0044	1.4971	2.4852	2.0915	79.006	2.4807	.93908	CCV10
106	CCB10	.03932	.00110	-.00110	.00045	.00039	.00211	.00016	.05419	.00022	.00001	CCB10
107	K362-03T	.03786	-.20661*	.00418	.00700	-.00015	.18688	.00002	16.673	22.494*	.00183	K362-03T
108	K362-04T	.05341	-.21247*	.00497	.01197	-.00016	.20396	-.00007	13.546	23.100*	.00175	K362-04T
109	K362-05T	.11224	-.13378*	.00392	.00779	-.00011	.17131	-.00006	13.712	14.500*	.00133	K362-05T
110	K362-03T	.00459	-.20179*	.00497	.00621	-.00012	.18102	.00003	16.396	21.962*	.00177	K362-03T
111	K362-04T	.00282	-.21546*	.00541	.01125	-.00017	.19893	-.00004	13.491	23.232*	.00175	K362-04T

112	K362-05T	.00262	-.13328*	.00447	.00670	-.00010	.16727	.00000	12.104	14.241*	.00107	K362-05T
113	CCV11	105.38	1.5486	1.0813	2.0189	1.4986	2.4630	2.0963	78.283	2.4547	.94175	CCV11
114	CCB11	.02253	.00166	-.00050	.00065	.00049	.00181	.00024	.01436	.00219	.00014	CCB11
115	L003-02T	.03783	-.04186	.00288	.00099	-.00004	.18716	-.00004	6.7929	4.6212	.00033	L003-02T
116	L003-03T	.02474	-.24615*	.00519	.00638	-.00015	.21329	.00001	10.919	26.465*	.00213	L003-03T
117	L003-05T	.04505	-.03488	.00041	.00779	-.00002	.14045	-.00006	12.812	3.8434	.00035	L003-05T
118	L003-02T	.00281	-.04216	.00150	.00010	-.00004	.18305	-.00007	6.4416	4.6503	.00042	L003-02T
119	L003-03T	-.00044	-.22826*	.00545	.00588	-.00014	.20029	.00004	9.9032	24.701*	.00192	L003-03T
120	L003-05T	-.00023	-.03698	.00106	.00708	-.00003	.14289	-.00004	13.099	4.1154	.00032	L003-05T
121	CCV12	105.76	1.5691	1.1002*	2.0032	1.4930	2.4934	2.0896	78.318	2.4939	.93709	CCV12
122	CCB12	.02524	.00125	-.00003	.00065	.00052	.00209	.00029	.01751	.00167	.00014	CCB12
123	IPL017WB	.01967	-.00041	-.00042	.00020	.00001	.00257	.00000	.00279	.00020	.00013	IPL017WB
124	IPL017WL	6.1782*	2.8452	.61034*	.53716	.55444	.56842	.56942	56.412	.54180	.49823	IPL017WL
125	IPL017WC	6.3446*	2.7694	.63120*	.54134	.55753	.59624	.54584	54.403	.57144	.47326	IPL017WC
126	L119-02A	6.2541	2.6882	.61326	.51919	.52107	.67767	.54844	68.912	.51636	.48175	L119-02A
127	L119-02	.37552	.00075	.01613	.00242	.00014	.15217	.00002	18.102	.00033	.00063	L119-02
128	L119-02J	.06599	.00076	.00314	.00061	.00011	.02598	-.00004	3.5651	.00030	.00026	L119-02J
129	L119-02M	6.1402	2.7581	.59349	.51049	.51643	.67786	.54439	70.245	.50216	.47395	L119-02M
130	L119-02S	6.3704	2.8684	.61804	.52930	.53554	.70247	.56667	72.877	.52003	.49457	L119-02S
131	L119-01	.75758	-.02058	5.6996	.08347	.00000	.34661	.00004	23.363	.00055	.00019	L119-01
132	CCV13	105.04	1.5440	1.0793	2.0158	1.4972	2.4480	2.1007	77.717	2.4392	.93710	CCV13
133	CCB13	.02346	.00189	.00027	.00070	.00054	.00254	.00030	.01978	.00054	.00028	CCB13
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

ID8L009 Section 1 of 3

ID8L009 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00144	.00003	.00014	-.00012	.00000	.00004	.00006	-.00027	.00040	.00000	Blank
2	S20			.19840			.11890					S20
3	S21			1.9342			1.1444					S21
4	S22	.36457	.06312									S22
5	S23	3.5545	2.4122									S23
6	S24							.74980				S24
7	S25							7.4544				S25
8	S26								.78074	.33647		S26
9	S27								7.2261	3.2774		S27
10	S28					.11020						S28
11	S29					.45176						S29
12	S30				.02829						.00157	S30
13	S31				.14038						.00625	S31
14	ICV	2.5466	24.615	2.4001	.53369	56.001	2.3720	2.5265	2.5676	62.111	1.0642	ICV
15	ICB	.00065	.00520	.00041	.00100	.02796	.00101	.00052	.00005	.02442	-.00057	ICB
16	MRLL081	.01033	.21332	.00956	.01138	.98151	.01081	.01040	.01060	1.0177	.01000	MRLL081
17	MRLL082	.00005	-.00219	-.00060	.00112	.00017	-.00013	-.00005	-.00017	-.05532	.00010	MRLL082
18	ICSA1	.00189	186.58	.00142	.00672	187.15	.00062	-.00189	-.00124	.05763	.00019	ICSA1
19	ICSAB1	.53528	190.60	.94307	1.1164	194.29	.46336	1.0395	1.0298	83.271	1.0922	ICSAB1
20	CCV1	2.5611	24.819	2.3963	.53271	55.760	2.3658	2.5200	2.5685	62.187	1.0735	CCV1
21	CCB1	.00011	.01063	-.00050	.00112	.02231	.00051	.00030	-.00015	.00755	-.00011	CCB1
22	IPK064WB	.00056	.01834	-.00050	.00086	.01116	.00012	.00000	-.00006	-.07460	-.00051	IPK064WB
23	IPK064WL	.50928	5.2296	.50302	.00141*	47.399	.48500	.50834	.52903	52.341	.54160	IPK064WL
24	IPK064WC	.51970	5.3275	.50699	.00095*	47.813	.49281	.51267	.53488	53.279	.55026	IPK064WC
25	K772-01A	.53188	5.2448	.51735	.00871	83.542	.50672	.50466	.53090	71.671	.58271	K772-01A
26	K772-01	.00645	-.00048	.01870	.00968	43.259	.02354	.00524	.00254	21.327	-.00037	K772-01
27	K772-01J	.00122	-.00033	.00245	.00229	7.3992	.00420	.00091	.00035	3.3591	-.00072	K772-01J
28	ICSA2	.00184	186.81	-.00032	.00633	187.61	.00066	-.00184	-.00113	.06167	.00162	ICSA2
29	ICSAB2	.53489	187.78	.94362	1.1111	188.59	.46263	1.0412	1.0275	82.754	1.0961	ICSAB2
30	CCV2	2.5174	24.720	2.3891	.52721	55.608	2.3415	2.5103	2.5489	61.857	1.0585	CCV2
31	CCB2	.00045	.01469	-.00079	.00105	.04285	.00053	.00044	.00011	.02570	.00024	CCB2
32	MRLL083	.01078	.22211	.01012	.01194	.98186	.01089	.01062	.01107	1.0109	.01137	MRLL083
33	IPL011WQ	.00015	.00555	-.00068	.00121	.03569	.00013	.00002	-.00015	-.03340	-.00034	IPL011WQ
34	IPL011WX	.51121	5.3014	.49996	.00141*	47.968	.48674	.51161	.52979	52.779	.53829	IPL011WX
35	IPL011WY	.51308	5.3489	.50557	.00115*	47.841	.48887	.51482	.53348	53.188	.54247	IPL011WY
36	L020-03A	.53363	5.3603	.51406	.01032	54.456	.50130	.54640	.54002	65.185	.56072	L020-03A
37	L020-03W	.00248	.14978	.01107	.01007	8.1873	.01243	.03590	.00181	11.737	.00008	L020-03W
38	L020-03J	.00078	.03100	.00210	.00278	1.6278	.00246	.00700	.00010	2.1769	.00008	L020-03J
39	L027-01T	.00056	6.0528	.00297	.00411	49.334	2.7874	-.00031	.00610	5.5140	-.00057	L027-01T
40	L027-06T	.00025	3.1265	.00217	.00257	37.571	1.1117	-.00020	.00033	2.9012	-.00041	L027-06T
41	CCV3	2.5009	24.658	2.3826	.52689	55.522	2.3333	2.4943	2.5326	61.758	1.0573	CCV3
42	CCB3	.00043	.00040	-.00071	.00159	.02112	.00073	.00038	-.00013	.02156	-.00022	CCB3
43	L027-01W	.00270	58.020	.03811	.03639	510.60	26.656	-.00190	.06349	66.285	.00023	L027-01W
44	L027-02W	.00042	.02220	-.00048	.00108	.15866	.00896	.00005	.00046	.30232	.00026	L027-02W
45	L027-04W	.00127	.06250	.04414	.00233	184.64	1.1784	-.00037	.00247	7.3824	-.00009	L027-04W
46	L027-06W	.00140	30.825	.03018	.02240	401.90	10.858	-.00131	.00807	33.462	-.00113	L027-06W
47	L027-07W	.00008	.00120	-.00073	.00036	.03896	.00100	-.00006	.00038	.22861	-.00067	L027-07W
48	CCV4	2.4187	26.375	2.3755	.52480	57.459	2.3756	2.3910	2.4842	62.547	1.0865	CCV4
49	CCB4	.00096	.01201	.00023	.00113	.07212	.00231	.00103	.00077	.05927	.00036	CCB4
50	K574-07A	.48106	5.5504	.49874	.00159	50.251	.50450	.49209	.52642	51.767	.62188	K574-07A
51	K574-07T	.00616	.08037	.00096	.00081	1.4812	.01463	.00120	.00108	1.2930	.00621	K574-07T
52	K574-07J	.00006	.00301	.00030	.00090	.05292	.00075	.00023	-.00007	.01480	.00121	K574-07J
53	K574-07G	.09805	1.0953	.10036	.00103	10.010	.10202	.10141	.10704	10.239	.12807	K574-07G
54	K574-07H	.09702	1.0855	.10034	.00072	9.9209	.10059	.10035	.10626	10.171	.12748	K574-07H

55	CCV5	2.4323	25.340	2.3795	.51831	57.852	2.3763	2.4567	2.5129	62.016	1.0676	CCV5
56	CCB5	.00050	.00331	-.00017	.00091	.02221	.00077	.00050	.00032	-.00129	.00001	CCB5
57	L020-04T	.00025	.01648	.00091	.00370	2.4182	.00054	.00460	.00004	1.9302	-.00064	L020-04T
58	L020-05T	.00065	.08320	.00131	.00396	4.3760	.02279	.00109	.00077	1.5129	-.00074	L020-05T
59	L028-02T	.00012	.02549	.00040	.00366	5.3708	.00302	.00110	.00007	1.4876	-.00056	L028-02T
60	L028-03W	.00220	132.57	.03907	.06827	80.594	6.3998	.00161	.02455	24.069	.00522	L028-03W
61	L028-04T	.00060	.05032	.00095	.00380	4.1801	.00318	.00032	-.00015	1.3599	.00051	L028-04T
62	L028-05W	.00211	2.4252	.01355	.04491	73.771	.71309	.00281	.00145	37.048	.00249	L028-05W
63	CCV6	2.4632	25.099	2.3825	.52520	56.497	2.3489	2.4508	2.5156	62.010	1.0856	CCV6
64	CCB6	.00060	.00729	.00019	.00164	.03945	.00098	.00055	.00023	.06790	.00005	CCB6
65	L076-01A	.89362	101.85	1.4458	.05034	63.096	3.1574	.51814	.61172	60.635	.53986	L076-01A
66	L076-01W	.37463	100.26	.98734	.04979	15.863	2.7585	.00411	.07504	8.1731	.00728	L076-01W
67	L076-01J	.07210	20.167	.19697	.00935	3.1882	.55351	.00050	.01403	1.4787	.00096	L076-01J
68	L028-04W	.00161	.04649	.01148	.04144	44.096	.00503	.00424	.00043	15.660	.00105	L028-04W
69	L075-05	.10138	197.80	.55661	.04104	6.1441	3.6125	.01052	.08591	8.2733	.00686	L075-05
70	L075-07	.08265	212.99	1.7614	.04232	6.0725	4.012B	.00912	.07703	9.2561	.00685	L075-07
71	CCV7	2.4634	24.962	2.3967	.52157	57.138	2.3546	2.4756	2.5271	61.689	1.1009*	CCV7
72	CCB7	.00033	.00417	-.00040	.00151	.01535	.00040	.00026	-.00021	.00491	-.00048	CCB7
73	IPL016S8	.00040	.01345	-.00084	.00073	.02622	.00083	.00045	-.00008	.00274	.00038	IPL016SB
74	IPL016SL	.49455	5.2129	.50056	.00079*	49.631	.49129	.53551	.54086	52.977	.52471	IPL016SL
75	IPL016SC	.50329	5.3092	.51053	.00113*	49.062	.49826	.53827	.54856	52.489	.53545	IPL016SC
76	L076-04A	.72642	106.39	1.4761	.03455	57.033	5.3616	.53024	.62257	57.272	.53860	L076-04A
77	L076-04	.21872	105.59	1.0314	.03511	10.554	5.1164	.00387	.08766	5.4904	.00757	L076-04
78	L076-04J	.04180	21.239	.20076	.00730	2.1057	1.0149	.00054	.01583	.98152	.00152	L076-04J
79	L076-04M	.73024	121.41	1.5041	.05665	59.984	5.5946	.53144	.62510	59.171	.51900	L076-04M
80	L076-04S	.72648	117.83	1.5083	.04852	59.374	5.5642	.52578	.62110	58.009	.51649	L076-04S
81	L076-01	.44877	114.41	1.2460	.03613	17.626	3.2470	.00523	.08413	7.1553	.00836	L076-01
82	CCV8	2.4972	25.011	2.3927	.52430	57.164	2.3711	2.4701	2.5345	62.088	1.1111*	CCV8
83	CCB8	.00023	.00078	-.00036	.00036	.00555	.00013	.00024	-.00021	.01237	-.00063	CCB8
84	IPL012W8	.00019	.00505	-.00051	.00153	.02019	.00009	-.00001	-.00012	-.03810	-.00025	IPL012WB
85	IPL012WL	.49628	5.2493	.49618	.00161*	48.769	.48722	.50042	.52057	52.506	.55997	IPL012WL
86	IPL012WC	.50352	5.3206	.49945	.00156*	48.569	.48979	.50125	.52487	53.358	.56402	IPL012WC
87	L007-03A	.52377	5.6942	.52185	.02700	72.299	.59710	.50958	.54312	59.346	.59722	L007-03A
88	L007-03	.00602	.37349	.01419	.02612	24.217	.10176	.00203	.01059	3.9556	.00062	L007-03
89	L007-03J	.00148	.07569	.00210	.00617	4.9049	.02085	.00041	.00194	.70707	-.00069	L007-03J
90	L007-03M	.51823	5.6265	.51239	.02730	73.605	.59095	.51539	.53625	59.620	.58287	L007-03M
91	L007-03S	.51691	5.6044	.51141	.02729	73.796	.59162	.51439	.53625	60.265	.57341	L007-03S
92	L007-04	.00097	-.00478	.00897	.01692	10.976	.00020	.00185	.00078	2.9486	.00014	L007-04
93	L007-05	.00055	.00155	.00828	.01084	6.0463	.00030	.00453	.00061	1.9951	.00075	L007-05
94	CCV9	2.4797	24.541	2.4047	.53160	56.897	2.3591	2.4886	2.5391	62.623	1.0944	CCV9
95	CCB9	.00088	.00434	.00005	.00182	.02783	.00090	.00070	.00024	.06756	-.00112	CCB9
96	L030-13	.00307	.11140	.01784	.05349	45.953	.01023	.00093	.00329	10.217	-.00186	L030-13
97	L005-03	.00130	1.5058	.00984	.02191	29.101	.31629	.00127	.00333	2.4950	.00072	L005-03
98	L005-04	.00085	.21148	.00689	.02845	23.582	.67234	.00280	.00184	4.1407	-.00053	L005-04
99	L005-04M	.52105	5.5428	.51727	.02985	73.369	1.1530	.51430	.53646	60.344	.58102	L005-04M
100	L005-04S	.51713	5.4996	.50906	.03021	72.214	1.1466	.51040	.52950	59.500	.57263	L005-04S
101	L005-13	.00283	.25470	.00685	1.0673	10.586	.05230	.02050	.00290	41.223	-.00079	L005-13
102	L005-14	.00113	.03419	.01131	.01406	16.453	.00970	.00013	.00003	3.1116	-.00041	L005-14
103	ICSA2	.00203	190.24	.00102	.00752	192.14	.00097	-.00145	-.00092	.08375	.00047	ICSA2
104	ICSAB2	.52351	187.80	.94282	1.1059	192.09	.46525	1.0189	1.0127	83.735	1.1247	ICSAB2
105	CCV10	2.4995	24.874	2.3975	.53050	57.372	2.3781	2.4794	2.5371	62.962	1.0975	CCV10
106	CCB10	.00042	.01494	-.00004	.00140	.04208	.00063	.00032	-.00002	.08260	-.00009	CCB10
107	K362-03T	.00058	.08802	-.00188	.00972	16.693	.00407	.00167	-.00022	5.6431	.00024	K362-03T
108	K362-04T	.00042	.13256	-.00167	.00966	14.313	.00377	.00310	-.00045	7.5154	.00103	K362-04T
109	K362-05T	.00057	.14575	.00138	.01020	11.294	.00275	.00125	.00004	5.5118	.00151	K362-05T
110	K362-03T	.00028	.03804	-.00230	.00944	16.496	.00259	.00150	-.00067	5.5771	.00045	K362-03T
111	K362-04T	.00025	.03967	-.00132	.00940	14.168	.00267	.00283	-.00067	7.3812	.00160	K362-04T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	K362-05T	.00028	.02205	.00040	.00954	11.033	.00083	.00128	-.00002	5.4486	.00022	K362-05T
113	CCV11	2.5023	24.501	2.4015	.53310	57.031	2.3771	2.4908	2.5455	63.075	1.0889	CCV11
114	CCB11	.00058	.00583	.00022	.00139	.02812	.00067	.00062	-.00001	.06958	.00070	CCB11
115	L003-02T	.00065	.04210	.00083	.00945	11.533	.00521	.00118	-.00004	7.2109	-.00007	L003-02T
116	L003-03T	.00050	.07202	-.00213	.01211	15.481	.00300	.00245	-.00059	9.8347	.00077	L003-03T
117	L003-05T	.00050	.04745	.00182	.00760	8.9368	.00384	.00113	.00052	3.2600	.00060	L003-05T
118	L003-02T	.00056	.00131	.00069	.00926	11.288	.00403	.00132	-.00024	7.0956	.00140	L003-02T
119	L003-03T	.00028	.04266	-.00209	.01152	14.233	.00197	.00236	-.00063	9.3264	.00107	L003-03T
120	L003-05T	.00052	.00279	.00192	.00803	9.3356	.00254	.00120	.00046	3.3279	.00030	L003-05T
121	CCV12	2.5068	24.778	2.3906	.53150	57.092	2.3672	2.4717	2.5340	62.951	1.1074*	CCV12
122	CCB12	.00065	.00342	-.00008	.00142	.03850	.00077	.00061	.00013	.06052	-.00037	CCB12
123	IPL017WB	.00031	.00012	-.00046	.00111	.02281	.00024	.00012	-.00022	.02627	.00004	IPL017WB
124	IPL017WL	.54414	5.6061	.53100	.00125*	51.883	.52489	.51723	.55261	57.279	.61745*	IPL017WL
125	IPL017WC	.57241	5.7066	.55881	.00134*	50.160	.52531	.47039	.54362	62.838*	.64755*	IPL017WC
126	L119-02A	.52696	5.4924	.50693	.00390	60.477	.55567	.49305	.53365	58.919	.60066	L119-02A
127	L119-02	.00133	.21150	.00066	.00327	13.215	.05415	-.00008	.00095	3.2754	-.00074	L119-02
128	L119-02J	.00032	.03969	.00021	.00173	2.5931	.01057	.00001	.00007	.65463	-.00032	L119-02J
129	L119-02M	.50998	5.3796	.50001	.00408	61.915	.54145	.51330	.52713	57.525	.57584	L119-02M
130	L119-02S	.52926	5.5862	.52020	.00371	64.036	.56163	.53385	.54939	59.739	.60088	L119-02S
131	L119-01	.00272	.33764	.01683	.00340	15.315	.53953	.00827	.00173	3.2292	.00020	L119-01
132	CCV13	2.4842	24.405	2.4016	.53104	56.504	2.3579	2.4915	2.5430	62.603	1.0867	CCV13
133	CCB13	.00073	.00327	-.00010	.00128	.03034	.00083	.00059	.00011	.06496	-.00016	CCB13

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00187	-.00009	-.00029	.00006	.00000	-.00011	.00092	Blank
2	S20									S20
3	S21									S21
4	S22							.15857		S22
5	S23							1.5510		S23
6	S24		1.0722							S24
7	S25		6.2386							S25
8	S26									S26
9	S27									S27
10	S28				.13359					S28
11	S29				1.2934					S29
12	S30	.04485		.13266		.02502	.01616		.59781	S30
13	S31	.22111		.65680		.12234	.08031		5.7832	S31
14	ICV	.51324	62.666	.49632	2.3691	.49776	.48937	1.4722	2.6431	ICV
15	ICB	.00014	.02558	.00024	.00091	.00032	.00025	.00040	.00201	ICB
16	MRLL081	.01008	1.0948	.01295*	.01039	.00030	.01078	.01018	.21773*	MRLL081
17	MRLL082	-.00001	-.01719	.00006	-.00033	.00080	.00021	-.00016	.02142	MRLL082
18	ICSA1	.00031	.07811	.02090	-.00211	.00300	.00153	-.00062	.00194	ICSA1
19	ICSAB1	1.1225	82.821	.51690	.90854	.98509	.96804	.49184	1.0671	ICSAB1
20	CCV1	.51681	62.743	.49452	2.3667	.49845	.48612	1.4828	2.6384	CCV1
21	CCB1	-.00002	.02129	.00018	.00005	.00061	.00020	.00016	-.00055	CCB1
22	IPK064WB	.00002	.00346	.00015	.00017	.00024	.00059	.00000	.01565*	IPK064WB
23	IPK064WL	.52373	52.651	.47990	.50592	.50036	.50451	.51030	.54544	IPK064WL
24	IPK064WC	.53695	53.475	.48656	.51160	.50603	.50706	.51922	.55161	IPK064WC
25	K772-01A	.53271	234.81	.95473	.49059	.49007	.48741	.51776	.61524	K772-01A
26	K772-01	.00032	218.89	.58337	-.00002	.00051	.00166	.00292	.07625	K772-01
27	K772-01J	.00003	37.651	.10087	-.00005	.00008	.00038	.00060	.01726	K772-01J
28	ICSA2	.00007	.17168	.02120	-.00234	.00244	.00167	-.00072	.00131	ICSA2
29	ICSAB2	1.1298	82.479	.51611	.90933	.99831	.97110	.49460	1.0734	ICSA82
30	CCV2	.50877	62.232	.48823	2.3598	.49941	.48343	1.4727	2.6317	CCV2
31	CCB2	-.00001	.03842	.00024	.00018	.00070	.00048	.00020	.00968	CCB2
32	MRLL083	.01082	1.0756	.01077	.01135	.00088	.01060	.01084	.01612*	MRLL083
33	IPL011WQ	-.00002	.01084	.00041	.00020	.00059	.00010	-.00005	.00750	IPL011WQ
34	IPL011WX	.52856	52.987	.48243	.50351	.50180	.50702	.51709	.54993	IPL011WX
35	IPL011WY	.53089	53.284	.48647	.50767	.50715	.50739	.51909	.55295	IPL011WY
36	L020-03A	.53579	326.84	.61762	.48758	.49721	.49801	.51883	.58768	L020-03A
37	L020-03W	-.00009	282.32	.14822	.00043	.00069	.00478	.00473	.02790	L020-03W
38	L020-03J	-.00002	57.590	.02960	-.00018	.00059	.00124	.00097	.00869	L020-03J
39	L027-01T	-.00005	268.48	.21816	-.00036	.00093	.00086	-.00013	.00195	L027-01T
40	L027-06T	-.00018	83.755	.16855	-.00105	.00060	-.00003	-.00019	.00107	L027-06T
41	CCV3	.50533	62.230	.48785	2.3532	.49858	.48138	1.4673	2.6328	CCV3
42	CCB3	.00006	.06381	.00017	.00012	-.00005	.00011	.00017	.00171	CCB3
43	L027-01W	.00095	2050.2*	2.2298	-.00413	.00112	.00347	.00306	.00525	L027-01W
44	L027-02W	-.00002	1.4339	.00077	.00038	.00011	.00017	.00000	.00295	L027-02W
45	L027-04W	.00003	484.67	.46338	-.00006	.00012	.00077	-.00058	.00297	L027-04W
46	L027-06W	.00018	793.86*	1.6898	-.00174	.00006	.00274	.00071	.00309	L027-06W
47	L027-07W	.00011	.43937	.00027	.00048	-.00001	.00021	-.00029	.00029	L027-07W
48	CCV4	.51496	63.017	.48752	2.2777	.49756	.48727	1.5181	2.7874*	CCV4
49	CCB4	.00034	.24501	.00039	.00103	.00024	.00030	.00057	.00100	CCB4
50	K574-07A	.50053	51.915	.45722	.48291	.48819	.49294	.52737	.59479	K574-07A
51	K574-07T	.00529	1.9601	.01346	-.00298	.00354	.01348	.00651	.00441	K574-07T
52	K574-07J	.00005	.23211	.00028	-.00059	.00102	.00015	.00001	.00204	K574-07J
53	K574-07G	.10050	11.047	.09730	.09804	.10283	.10286	.10499	.11827	K574-07G
54	K574-07H	.09918	10.954	.09624	.09685	.10159	.10154	.10377	.11969	K574-07H

55	CCV5	.50356	62.176	.48255	2.3219	.49712	.48509	1.4835	2.7074	CCV5
56	CCB5	.00011	.07824	.00016	.00093	.00048	.00018	.00018	.00049	CCB5
57	L020-04T	-.00003	84.298	.04743	.00057	.00039	.00145	.00122	.00175	L020-04T
58	L020-05T	.00011	96.223	.08208	.00025	.00028	.00107	.00025	.00161	L020-05T
59	L028-02T	.00016	76.345	.09555	.00060	-.00006	.00164	.00049	-.00125	L028-02T
60	L028-03W	.00024	808.03*	2.2680	-.00393	.00415	.01736	.00282	.00835	L028-03W
61	L028-04T	.00011	79.092	.07500	.00049	.00061	.00043	.00063	.00193	L028-04T
62	L028-05W	.00004	1030.5*	.56692	.00120	.00088	.01672	.00194	.00006	L028-05W
63	CCV6	.50745	63.160	.48581	2.3191	.49510	.48554	1.4743	2.6967	CCV6
64	CCB6	.00014	.28291	.00031	.00099	.00014	.00010	.00035	.00007	CCB6
65	L076-01A	.51424	53.216	.56220	.48512	.50583	1.4786	.73811	18.388	L076-01A
66	L076-01W	-.00013	.67814	.08756	-.00119	.02060	1.0048	.23098	18.254	L076-01W
67	L076-01J	-.00014	.14715	.01700	-.00021	.00428	.19742	.04497	3.6140	L076-01J
68	L028-04W	.00032	778.41*	.77191	.00549	-.00040	.00597	.00729	-.00567*	L028-04W
69	L075-05	-.00029	1.5875	.14019	-.00302	.02203	.71976	.29961	4.2325	L075-05
70	L075-07	-.00024	.48215	.10250	-.00200	.02096	.83278	.33068	2.0100	L075-07
71	CCV7	.50996	61.947	.48251	2.3449	.49472	.48472	1.4730	2.6809	CCV7
72	CCB7	.00005	.07045	.00013	-.00001	.00025	.00020	.00001	.00029	CCB7
73	IPL016SB	-.00016	.08722	.00036	-.00065	.02177	.00039	.00011	.00354	IPL016SB
74	IPL016SL	.49890	53.399	.47575	.49222	.52475	.50621	.51554	.57298	IPL016SL
75	IPL016SC	.51153	52.783	.48102	.50050	.52428	.50998	.52472	.58261	IPL016SC
76	L076-04A	.50068	52.659	.56524	.48010	.50821	.93333	.76376	25.770	L076-04A
77	L076-04	-.00044	.73497	.09191	-.00364	.01892	.45562	.26519	26.028	L076-04
78	L076-04J	-.00019	.14475	.01774	-.00064	.00348	.08764	.05150	5.1221	L076-04J
79	L076-04M	.50690	53.642	.59252	.46823	.51286	.95538	.78889	26.920	L076-04M
80	L076-04S	.50595	53.306	.58074	.47128	.50913	.80776	.77834	26.815	L076-04S
81	L076-01	-.00022	.63810	.09261	-.00234	.01784	.58925	.23915	22.935	L076-01
82	CCV8	.51675	62.287	.48769	2.3392	.49131	.48519	1.4753	2.6819	CCVB
83	CCB8	.00004	.03440	.00009	.00033	.00033	.00002	-.00018	.00081	CCB8
84	IPL012WB	.00004	.03448	.00034	.00010	.00026	.00052	-.00014	.00646	IPL012WB
85	IPL012WL	.51982	52.523	.47515	.49322	.49062	.50369	.50697	.55111	IPL012WL
86	IPL012WC	.52717	53.081	.47993	.49540	.49049	.50631	.51202	.55392	IPL012WC
87	L007-03A	.53576	187.89	3.1008	.49408	.49609	.50960	.53263	.61911	L007-03A
88	L007-03	-.00013	137.91	2.6840	.00032	.00061	.01112	.01355	.05433	L007-03
89	L007-03J	.00004	27.848	.54439	.00011	.00039	.00270	.00270	.01130	L007-03J
90	L007-03M	.54478	191.85	3.1841	.48319	.50175	.51524	.52553	.61396	L007-03M
91	L007-03S	.54323	192.63	3.1989	.48352	.50002	.51621	.52456	.61453	L007-03S
92	L007-04	-.00002	100.58	1.3917	.00072	.00022	.00104	.01436	.00766	L007-04
93	L007-05	.00006	62.520	.56921	.00032	-.00006	.00010	.02557	.00323	L007-05
94	CCV9	.50717	62.828	.48902	2.3474	.49271	.48827	1.4542	2.6698	CCV9
95	CCB9	.00022	.11100	.00046	.00029	.00046	.00034	.00036	.00102	CCB9
96	L030-13	.00010	51.462	.41583	.00043	.00046	.00154	.00011	.01981	L030-13
97	L005-03	-.00017	45.101	.33234	.00022	-.00003	.00127	.00020	.00281	L005-03
98	L005-04	.00001	16.720	.21247	.00027	.00000	.00092	-.00010	.00326	L005-04
99	L005-04M	.54659	71.648	.69689	.50070	.49742	.51259	.52057	.56522	L005-04M
100	L005-04S	.54385	70.909	.69336	.49482	.49432	.50733	.51598	.55457	L005-04S
101	L005-13	.00008	106.37	.37185	.00052	.00032	.00363	.00028	.03094	L005-13
102	L005-14	-.00002	18.954	.22238	.00094	.00005	.00196	.00028	.02422	L005-14
103	ICSA2	.00033	.21071	.02164	-.00159	.00183	.00194	-.00054	.00055	ICSA2
104	ICSAB2	1.1246	82.715	.51463	.89617	.97731	.97349	.48903	1.0781	ICSAB2
105	CCV10	.51321	62.923	.49113	2.3400	.49282	.48833	1.4661	2.6687	CCV10
106	CCB10	.00010	.06950	.00019	.00031	.00043	-.00038	.00014	.00021	CCB10
107	K362-03T	.00032	237.61	.18827	.00612	-.00078	.00840	.00107	-.01563*	K362-03T
108	K362-04T	.00026	219.18	.16695	.00669	-.00073	.00966	.00120	-.01817*	K362-04T
109	K362-05T	.00027	196.06	.17754	.00421	-.00069	.00747	.00222	.02034	K362-05T
110	K362-03T	.00026	231.94	.18423	.00567	-.00094	.00746	.00097	-.01829*	K362-03T
111	K362-04T	.00017	218.08	.16690	.00605	-.00060	.00727	.00121	-.01835*	K362-04T

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
112	K362-05T	.00025	195.32	.17226	.00380	-.00044	.00467	.00173	-.00975*	K362-05T
113	CCV11	.50890	63.321	.49300	2.3413	.49088	.48861	1.4503	2.6577	CCV11
114	CCB11	-.00001	.11314	.00021	.00039	.00018	.00031	.00018	.00018	CCB11
115	L003-02T	.00013	230.63	.05772	.00108	.00036	.00264	.00072	-.00108	L003-02T
116	L003-03T	.00040	240.26	.12680	.00695	-.00082	.00906	.00216	-.02048*	L003-03T
117	L003-05T	-.00003	146.61	.16774	.00068	.00019	.00269	.00174	-.00194	L003-05T
118	L003-02T	.00000	225.10	.05125	.00110	.00033	.00170	.00042	-.00333	L003-02T
119	L003-03T	.00029	229.93	.11948	.00673	-.00079	.00806	.00194	-.01945*	L003-03T
120	L003-05T	-.00005	151.63	.17279	.00147	.00021	.00150	.00139	-.00275	L003-05T
121	CCV12	.51579	63.185	.49064	2.3234	.48733	.48607	1.4622	2.6583	CCV12
122	CCB12	.00000	.13729	.00020	.00048	.00027	.00025	.00030	.00031	CCB12
123	IPL017WB	-.00004	.08730	.00040	.00015	.00064	.00014	.00001	.00456	IPL017WB
124	IPL017WL	.56589	57.114	.50906	.52542	.50661	.53243	.53803	.58440	IPL017WL
125	IPL017WC	.60154*	59.523	.50698	.59791	.37326*	.52082	.54176	.66145*	IPL017WC
126	L119-02A	.53564	206.36	.54616	.48730	.47004	.50262	.50958	.56618	L119-02A
127	L119-02	-.00002	154.41	.06558	.00035	.00031	.00946	.00022	.00482	L119-02
128	L119-02J	.00005	30.418	.01279	.00013	.00032	.00203	-.00003	.00205	L119-02J
129	L119-02M	.53195	202.89	.54949	.48210	.49257	.52002	.50217	.56107	L119-02M
130	L119-02S	.55087	211.71	.57042	.50254	.51074	.54058	.52102	.58455	L119-02S
131	L119-01	.00004	153.49	.16803	.00080	.00041	.01801	.00852	.00582	L119-01
132	CCV13	.50438	62.858	.49317	2.3379	.48626	.48698	1.4403	2.6547	CCV13
133	CCB13	.00008	.11402	.00026	.00052	.00019	.00025	.00037	.00041	CCB13

ID8L009 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-096
Batch: IPL0 15-5
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

12-7-10 Start	Temp	12-7-10 End	Temp
10:00	90°c	12:00	90c

Hot plate C

Standards	ID	Amount Added (ml)
LCS-1	SMIA-13-02-07	0.5
LCS-2	↓ ↓ - ↓-08	0.5
LCS-3	↓ ↓ - ↓-09	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SWIA-04-291	10.0
HCl	↓ ↓ - 282	10.0
H_2O_2	↓ ↓ - 209	10.0
HNO3(1:1)	SM5B-02-133	10.0

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-055

☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask

☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask

☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask

☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask

☐ Thermometer ID: 10161563 2

Prepared By: MC

Standard Added By: MC Witnessed By: TH

Extract Rcvd By: TH Checked By: TH 12/7/10

FileID: IPL015S

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
10IPL015S01	IPL015SB	1	g	12/7/10 9:24	100	1	100	1	
10IPL015S02	IPL015SL	1	g	12/7/10 9:24	100	1	100	1	
10IPL015S03	IPL015SC	1	g	12/7/10 9:24	100	1	100	1	
10IPL015S04	L075-01	1.006	g	12/7/10 9:25	100	1	100	0.994	XRF
10IPL015S05	L075-02	1.001	g	12/7/10 9:26	100	1	100	0.999	XRF
10IPL015S06	L075-03	1.012	g	12/7/10 9:28	100	1	100	0.988	XRF
10IPL015S07	L075-04	1.018	g	12/7/10 9:29	100	1	100	0.982	XRF
10IPL015S08	L075-05	1.007	g	12/7/10 9:30	100	1	100	0.993	XRF
10IPL015S09	L075-06	1.018	g	12/7/10 9:31	100	1	100	0.982	XRF
10IPL015S10	L075-07	1.004	g	12/7/10 9:33	100	1	100	0.996	XRF
10IPL015S11	L075-08	1.017	g	12/7/10 9:34	100	1	100	0.983	XRF
10IPL015S12	L076-01	1.012	g	12/7/10 9:36	100	1	100	0.988	XRF
10IPL015S13	L076-02	1.002	g	12/7/10 9:37	100	1	100	0.998	XRF
10IPL015S14	L076-03	1.012	g	12/7/10 9:39	100	1	100	0.988	XRF
10IPL015S15	L076-04	1.008	g	12/7/10 9:39	100	1	100	0.992	XRF
10IPL015S16	L076-05	1.009	g	12/7/10 9:40	100	1	100	0.991	XRF
10IPL015S17	L076-06	1.015	g	12/7/10 9:41	100	1	100	0.985	XRF
10IPL015S18	L076-07	1.027	g	12/7/10 9:41	100	1	100	0.974	XRF
10IPL015S19	L076-07M	1.027	g	12/7/10 9:42	100	1	100	0.974	XRF
10IPL015S20	L076-07S	1.026	g	12/7/10 9:44	100	1	100	0.975	XRF

12-7-10 MC

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 12/7/10 10:00 Prepared By: MC

☑ Digestion Ended @ 12/7/10 12:00 Checked By: TH

Comments: Date 12/7/2010

7072

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 10L076

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of two (2) soil samples were received on 12/04/10 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPL016SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for L076-04M/S were within project QC limits.
Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 10L076
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPL016SB	1	NA	12/08/1020:29	12/08/1010:00	ID8L009073	ID8L009071	IPL016S	Method Blank
LCS1S	IPL016SL	1	NA	12/08/1020:32	12/08/1010:00	ID8L009074	ID8L009071	IPL016S	Lab Control Sample (LCS)
LCD1S	IPL016SC	1	NA	12/08/1020:35	12/08/1010:00	ID8L009075	ID8L009071	IPL016S	LCS Duplicate
CP091-02-01	L076-04	0.992	NA	12/08/1020:40	12/08/1010:00	ID8L009077	ID8L009071	IPL016S	Field Sample
CP091-02-01DL	L076-04J	4.96	NA	12/08/1020:43	12/08/1010:00	ID8L009078	ID8L009071	IPL016S	Diluted Sample
CP091-02-01MS	L076-04M	0.992	NA	12/08/1020:46	12/08/1010:00	ID8L009079	ID8L009071	IPL016S	Matrix Spike Sample (MS)
CP091-02-01MSD	L076-04S	0.991	NA	12/08/1020:48	12/08/1010:00	ID8L009080	ID8L009071	IPL016S	MS Duplicate (MSD)
CP091-01-01	L076-01	0.996	NA	12/08/1020:51	12/08/1010:00	ID8L009081	ID8L009071	IPL016S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 13:10
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/08/10 10:00
Sample ID:	CP091-01-01	Date Analyzed:	12/08/10 20:51
Lab Samp ID:	L076-01	Dilution Factor:	0.996
Lab File ID:	ID8L009081	Matrix :	SOIL
Ext Btch ID:	IPL016S	% Moisture :	NA
Calib. Ref.:	ID8L009071	Instrument ID :	EMAXTI08

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	124	0.996	0.199

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	11/21/10 14:30
Project	: TAR CREEK OU4	Date Received:	12/04/10
SDG NO.	: 10L076	Date Extracted:	12/08/10 10:00
Sample ID:	CP091-02-01	Date Analyzed:	12/08/10 20:40
Lab Samp ID:	L076-04	Dilution Factor:	0.992
Lab File ID:	ID8L009077	Matrix :	SOIL
Ext Btch ID:	IPL016S	% Moisture :	NA
Calib. Ref.:	ID8L009071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	102	0.992	0.198

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	12/08/10
SDG NO.	: 10L076	Date Extracted:	12/08/10 10:00
Sample ID:	MBLK1S	Date Analyzed:	12/08/10 20:29
Lab Samp ID:	IPL016SB	Dilution Factor:	1
Lab File ID:	ID8L009073	Matrix :	SOIL
Ext Btch ID:	IPLD16S	% Moisture :	NA
Calib. Ref.:	ID8L009071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPL016SB	IPL016SL	IPL016SC		
LAB FILE ID:	ID8L009073	ID8L009074	ID8L009075		
DATIME EXTRCTD:	12/08/1010:00	12/08/1010:00	12/08/1010:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/08/1020:29	12/08/1020:32	12/08/1020:35	DATE RECEIVED:	12/08/10
PREP. BATCH:	IPL016S	IPL016S	IPL016S		
CALIB. REF:	ID8L009071	ID8L009071	ID8L009071		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	50.1	100	50	51.1	102	2	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	0.992	0.992	0.991		
SAMPLE ID:	CP091-02-01				
CONTROL NO.:	L076-04	L076-04M	L076-04S		
LAB FILE ID:	ID8L009077	ID8L009079	ID8L009080		
DATIME EXTRCTD:	12/08/1010:00	12/08/1010:00	12/08/1010:00	DATE COLLECTED:	11/21/10 14:30
DATIME ANALYZD:	12/08/1020:40	12/08/1020:46	12/08/1020:48	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL016S	IPL016S	IPL016S		
CALIB. REF:	ID8L009071	ID8L009071	ID8L009071		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	102	49.6	149	95	49.6	149	95	0	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 10L076
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.992	4.96		
SAMPLE ID:	CP091-02-01	CP091-02-01DL		
EMAX SAMP ID:	L076-04	L076-04J		
LAB FILE ID:	ID8L009077	ID8L009078		
DATE EXTRACTED:	12/08/1010:00	12/08/1010:00	DATE COLLECTED:	11/21/10 14:30
DATE ANALYZED:	12/08/1020:40	12/08/1020:43	DATE RECEIVED:	12/04/10
PREP. BATCH:	IPL016S	IPL016S		
CALIB. REF:	ID8L009071	I08L009071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	102	99.6	3	10

7079A

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 12/8/10 16:41

End Date: 12/8/10 + 23:20

TH 12/9/10

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments: IEL update for CA
CrVI ↑ for
CCV8, CCV12 ↑ Se

Book #: AD8-017

Instrument No.: D8

Analytical Batch: 1D8L009

Analytical Sequence: S 1012 6010 (V16)

Method File: 1012 6010 (V16)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SMIB14-1601	S30	SMIB14 0203
S1	NA	S31	↓ 0204
S2		ICV	SMIB14 0901
S3		CCV	1402
S4		ICSA	1103
S5		ICSAB	↓ 0803
S6		MLCV	NA
S7		LLCV	↓
S8		CRI/MRL 1,3	SMIB12 8501
S9		2	SMIB14 180
S10			
S11			
S12			
S16			
S17			
S18			
S20	SMIB12-100-01		
S21	SMIB14-0101		
S22	0102		
S23	01-03		
S24	01-04		
S25	↓ 0105		
S26	SMIB12-100-02		
S27	↓ 100-03		
S28	SMIB14-02-01		
S29	↓ 0202		

Analyzed By: TH

Date: 12/9/10

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SEQUENCE FILE : ID8L009

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8L009001	Blank	16:41	12/08/10	1.000
ID8L009002	S20	16:44	12/08/10	1.000
ID8L009003	S21	16:47	12/08/10	1.000
ID8L009004	S22	16:50	12/08/10	1.000
ID8L009005	S23	16:53	12/08/10	1.000
ID8L009006	S24	16:56	12/08/10	1.000
ID8L009007	S25	16:59	12/08/10	1.000
ID8L009008	S26	17:02	12/08/10	1.000
ID8L009009	S27	17:05	12/08/10	1.000
ID8L009010	S28	17:08	12/08/10	1.000
ID8L009011	S29	17:11	12/08/10	1.000
ID8L009012	S30	17:14	12/08/10	1.000
ID8L009013	S31	17:17	12/08/10	1.000
ID8L009014	ICV	17:20	12/08/10	1.000
ID8L009015	ICB	17:22	12/08/10	1.000
ID8L009016	MRLL081	17:33	12/08/10	1.000
ID8L009017	MRLL082	17:36	12/08/10	1.000
ID8L009018	ICSA1	17:39	12/08/10	1.000
ID8L009019	ICSAB1	17:42	12/08/10	1.000
ID8L009020	CCV1	17:45	12/08/10	1.000
ID8L009021	CCB1	17:48	12/08/10	1.000
ID8L009022	IPK064WB	17:58	12/08/10	1.000
ID8L009023	IPK064WL	18:01	12/08/10	1.000
ID8L009024	IPK064WC	18:04	12/08/10	1.000
ID8L009025	K772-01A	18:06	12/08/10	1.000
ID8L009026	K772-01	18:09	12/08/10	1.000
ID8L009027	K772-01J	18:12	12/08/10	5.000
ID8L009028	ICSA2	18:15	12/08/10	1.000
ID8L009029	ICSA82	18:18	12/08/10	1.000
ID8L009030	CCV2	18:21	12/08/10	1.000
ID8L009031	CCB2	18:24	12/08/10	1.000
ID8L009032	MRLL083	18:27	12/08/10	1.000
ID8L009033	IPL011WQ	18:29	12/08/10	1.000
ID8L009034	IPL011WX	18:32	12/08/10	1.000
ID8L009035	IPL011WY	18:35	12/08/10	1.000
ID8L009036	L020-03A	18:38	12/08/10	1.000
ID8L009037	L020-03W	18:40	12/08/10	1.000
ID8L009038	L020-03J	18:43	12/08/10	5.000
ID8L009039	L027-01T	18:46	12/08/10	10.00
ID8L009040	L027-06T	18:49	12/08/10	10.00
ID8L009041	CCV3	18:52	12/08/10	1.000
ID8L009042	CCB3	18:55	12/08/10	1.000
ID8L009043	L027-01W	18:57	12/08/10	1.000
ID8L009044	L027-02W	19:01	12/08/10	1.000
ID8L009045	L027-04W	19:04	12/08/10	1.000
ID8L009046	L027-06W	19:06	12/08/10	1.000
ID8L009047	L027-07W	19:10	12/08/10	1.000
ID8L009048	CCV4	19:12	12/08/10	1.000
ID8L009049	CCB4	19:15	12/08/10	1.000
ID8L009050	K574-07A	19:18	12/08/10	5.000
ID8L009051	K574-07T	19:21	12/08/10	5.000
ID8L009052	K574-07J	19:24	12/08/10	25.00
ID8L009053	K574-07G	19:33	12/08/10	5.000
ID8L009054	K574-07H	19:36	12/08/10	5.000

ID8L009055	CCV5	19:39	12/08/10	1.000
ID8L009056	CCB5	19:41	12/08/10	1.000
ID8L009057	L020-04T	19:44	12/08/10	10.00
ID8L009058	L020-05T	19:47	12/08/10	10.00
ID8L009059	L028-02T	19:50	12/08/10	10.00
ID8L009060	L028-03W	19:53	12/08/10	1.000
ID8L009061	L028-04T	19:56	12/08/10	10.00
ID8L009062	L028-05W	19:58	12/08/10	1.000
ID8L009063	CCV6	20:01	12/08/10	1.000
ID8L009064	CCB6	20:04	12/08/10	1.000
ID8L009065	L076-01A	20:07	12/08/10	1.000
ID8L009066	L076-01W	20:10	12/08/10	1.000
ID8L009067	L076-01J	20:12	12/08/10	5.000
ID8L009068	L028-04W	20:15	12/08/10	1.000
ID8L009069	L075-05 *	20:18	12/08/10	1.000
ID8L009070	L075-07	20:21	12/08/10	1.000
ID8L009071	CCV7	20:24	12/08/10	1.000
ID8L009072	CCB7	20:27	12/08/10	1.000
ID8L009073	IPL016SB	20:29	12/08/10	1.000
ID8L009074	IPL016SL	20:32	12/08/10	1.000
ID8L009075	IPL016SC	20:35	12/08/10	1.000
ID8L009076	L076-04A *	20:38	12/08/10	1.000
ID8L009077	L076-04	20:40	12/08/10	1.000
ID8L009078	L076-04J	20:43	12/08/10	5.000
ID8L009079	L076-04M	20:46	12/08/10	1.000
ID8L009080	L076-04S	20:48	12/08/10	1.000
ID8L009081	L076-01	20:51	12/08/10	1.000
ID8L009082	CCV8	20:54	12/08/10	1.000
ID8L009083	CCB8	20:57	12/08/10	1.000
ID8L009084	IPL012WB	21:00	12/08/10	1.000
ID8L009085	IPL012WL	21:02	12/08/10	1.000
ID8L009086	IPL012WC	21:05	12/08/10	1.000
ID8L009087	L007-03A	21:08	12/08/10	1.000
ID8L009088	L007-03	21:10	12/08/10	1.000
ID8L009089	L007-03J	21:13	12/08/10	5.000
ID8L009090	L007-03M	21:16	12/08/10	1.000
ID8L009091	L007-03S	21:19	12/08/10	1.000
ID8L009092	L007-04	21:22	12/08/10	1.000
ID8L009093	L007-05	21:25	12/08/10	1.000
ID8L009094	CCV9	21:28	12/08/10	1.000
ID8L009095	CCB9	21:30	12/08/10	1.000
ID8L009096	L030-13	21:33	12/08/10	1.000
ID8L009097	L005-03	21:36	12/08/10	1.000
ID8L009098	L005-04	21:39	12/08/10	1.000
ID8L009099	L005-04M	21:42	12/08/10	1.000
ID8L009100	L005-04S	21:44	12/08/10	1.000
ID8L009101	L005-13	21:47	12/08/10	1.000
ID8L009102	L005-14	21:50	12/08/10	1.000
ID8L009103	ICSA2	21:53	12/08/10	1.000
ID8L009104	ICSAB2	21:56	12/08/10	1.000
ID8L009105	CCV10	21:59	12/08/10	1.000
ID8L009106	CCB10	22:01	12/08/10	1.000
ID8L009107	K362-03T	22:04	12/08/10	5.000
ID8L009108	K362-04T	22:07	12/08/10	5.000
ID8L009109	K362-05T	22:10	12/08/10	5.000
ID8L009110	K362-03T	22:13	12/08/10	5.000
ID8L009111	K362-04T	22:17	12/08/10	5.000

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ID8L009112	K362-05T	22:20	12/08/10	5.000
ID8L009113	CCV11	22:23	12/08/10	1.000
ID8L009114	CCB11	22:26	12/08/10	1.000
ID8L009115	L003-02T	22:28	12/08/10	5.000
ID8L009116	L003-03T	22:31	12/08/10	5.000
ID8L009117	L003-05T	22:35	12/08/10	5.000
ID8L009118	L003-02T	22:38	12/08/10	5.000
ID8L009119	L003-03T	22:40	12/08/10	5.000
ID8L009120	L003-05T	22:44	12/08/10	5.000
ID8L009121	CCV12	22:47	12/08/10	1.000
ID8L009122	CCB12	22:49	12/08/10	1.000
ID8L009123	IPL017WB	22:52	12/08/10	1.000
ID8L009124	IPL017WL	22:55	12/08/10	1.000
ID8L009125	IPL017WC	22:58	12/08/10	1.000
ID8L009126	L119-02A	23:00	12/08/10	1.000
ID8L009127	L119-02	23:03	12/08/10	1.000
ID8L009128	L119-02J	23:06	12/08/10	5.000
ID8L009129	L119-02M	23:09	12/08/10	1.000
ID8L009130	L119-02S	23:12	12/08/10	1.000
ID8L009131	L119-01	23:14	12/08/10	1.000
ID8L009132	CCV13	23:17	12/08/10	1.000
ID8L009133	CCB13	23:20	12/08/10	1.000

VERSON : 10A UNIT : % SUMMARY of ICV and CCV : IDBL009 DATE : 12/08/10 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	102	106	101	100	100	105	104	98	95	102	98	96	107	93	95	101	103	104	106	103	104	99	95	100	98	98	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL081	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	101	----	----	----	----	----	----	97	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	105	107	108	107	99	103	107	99	96	95	107	95	94	112	97	93	104	103	111	109	112	110	103	91	99	97	98	107
CCV1	108	103	106	100	99	101	105	104	99	95	102	99	96	107	93	95	101	103	104	107	103	105	99	95	100	97	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	101	----	----	----	----	----	----	98	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	103	108	110	106	98	104	107	98	96	94	107	94	94	111	94	93	104	103	110	110	113	110	103	91	100	97	99	107
CCV2	107	102	105	99	99	99	104	104	98	94	101	99	96	105	93	94	100	102	103	106	102	104	98	94	100	97	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL083	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	102	105	99	98	99	104	103	98	94	100	99	95	105	93	93	100	101	103	106	101	104	98	94	100	96	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	106	104	110	99	99	101	103	106	104	91	97	105	95	105	96	95	96	99	104	109	103	105	98	91	100	97	101	111*
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	106	102	107	98	99	98	104	106	100	93	97	101	95	104	96	95	98	101	103	107	101	104	97	93	99	97	99	108
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	104	108	99	99	99	104	104	99	93	99	100	95	105	94	94	98	101	103	109	101	105	97	93	99	97	98	108
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	105	105	110	99	99	99	104	105	99	94	99	100	96	104	95	94	99	101	103	110	102	103	97	94	99	97	98	107
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	106	105	110	99	99	100	104	105	100	94	100	100	96	105	95	95	99	101	103	111*	103	104	98	94	98	97	98	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	104	109	100	100	98	105	104	97	94	99	98	96	106	95	94	100	102	104	109	101	105	98	94	99	98	97	107
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	102	----	----	----	----	----	----	99	----	----	----	95	----	----	96	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	101	109	112	106	99	103	107	98	97	93	105	94	94	111	96	93	102	101	112	112	112	110	103	90	98	97	98	108
CCV10	106	104	109	100	100	99	105	105	99	94	100	99	96	106	96	95	99	101	105	110	103	105	98	94	99	98	98	107
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	105	103	108	101	100	99	105	104	98	94	100	98	96	107	95	95	100	102	105	109	102	106	99	94	98	98	97	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	106	105	110	100	100	100	104	104	100	94	100	99	96	106	95	95	99	101	105	111*	103	105	98	93	97	97	97	106
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	105	103	108	101	100	98	105	104	98	94	99	98	96	106	94	94	100	102	104	109	101	105	99	94	97	97	96	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 10A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8L009 (SDIL) DATE : 12/08/10 INST : EMAX7

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	26.2	.520	.770	.780	.600	3.53	.170	46.9	.630	.120	.650	5.20	.410	1.000	28.0	1.01	.520	.050	24.4	-.570	.140	25.6	.240	.910	.320	.250	.400	2.01
MRLL081	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLL082	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.48	-2.63	.920	-.130	10.1	1.68	----	1.17	-.760	1.89	----	1.42	6.72	----	.620	-1.89	-1.24	57.6	.190	.310	78.1	20.9	-2.11	3.00	1.53	-.620	1.94
ICSA81	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	26.4	.510	.140	.180	.320	2.63	.110	30.6	.070	.120	.110	10.6	-.500	1.12	22.3	.510	.300	-.150	7.55	-.110	-.020	21.3	.180	.050	.610	.200	.160	-.550
IPK064W8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK064WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K772-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	7.36	1.49	.980	-.070	12.8	1.74	----	1.18	-.730	1.84	----	-.320	6.33	----	.660	-1.84	-1.13	61.7	1.62	.070	172	21.2	-2.34	2.44	1.67	-.720	1.31
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	35.5	1.69	.060	.470	.350	3.03	.190	254	.220	.130	.450	14.7	-.790	1.05	42.8	.530	.440	.110	25.7	.240	-.010	38.4	.240	.180	.700	.480	.200	9.68
MRLL083	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL011WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	8.89	1.39	-.280	.420	.400	2.89	.170	22.3	.160	.120	.430	.400	-.710	1.59	21.1	.730	.380	-.130	21.6	-.220	.060	63.8	.170	.120	-.050	.110	.170	1.71
L027-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L027-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	38.8	1.44	.530	1.30	1.02	5.05	.710	52.9	1.02	.320	.960	12.0	.230	1.13	72.1	2.31	1.03	.770	59.3	.360	.340	245	.390	1.03	.240	.300	.570	1.000
K574-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K574-07H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.9	1.07	.250	.730	.520	2.62	.290	15.9	.470	.210	.500	3.31	-.170	.910	22.2	.770	.500	.320	-1.29	.010	.110	78.2	.160	.930	.480	.180	.180	.490
L020-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L020-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	22.3	.620	.770	.740	.650	3.82	.380	24.6	.870	.200	.600	7.29	.190	1.64	39.5	.980	.550	.230	67.9	.050	.140	283	.310	.990	.140	.100	.350	.070
L076-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L028-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	3.50	.770	-.570	.230	.140	2.03	.050	2.16	.020	.030	.330	4.17	-.400	1.51	15.3	.400	.260	-.210	4.91	-.480	.050	70.4	.130	-.010	.250	.200	.010	.290
IPL016S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L076-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	1.73	.840	-.140	-.020	.100	2.22	.030	-5.65	-.170	.090	.230	.780	-.360	.360	5.55	.130	.240	-.210	12.4	-.630	.040	34.4	.090	.330	.330	.020	-.180	.810
IPL012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L007-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	26.3	1.92	.450	.610	.530	2.95	.370	30.4	.560	.240	.880	4.34	.050	1.82	27.8	.900	.700	.240	67.6	-1.12	.220	111	.460	.290	.460	.340	.360	1.02
L030-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L005-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	8.74	-2.04	1.38	.040	9.83	-.460	----	1.39	-.520	2.03	----	1.02	7.52	----	.970	-1.45	-.920	83.8	.470	.330	211	21.6	-1.59	1.83	1.94	-.540	.550
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	39.3	1.10	-1.10	.450	.390	2.11	.160	54.2	.220	.010	.420	14.9	-.040	1.40	42.1	.630	.320	-.020	82.6	-.090	.100	69.5	.190	.310	.430	-.380	.140	.210
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K362-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K362-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	22.5	1.66	-.500	.650	.490	1.81	.240	14.4	2.19	.140	.580	5.83	.220	1.39	28.1	.670	.620	-.010	69.6	.700	-.010	113	.210	.390	.180	.310	.180	.180
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	25.2	1.25	-.030	.650	.520	2.09	.290	17.5	1.67	.140	.650	3.42	-.080	1.42	38.5	.770	.610	.130	60.5	-.370	.000	137	.200	.480	.270	.250	.300	.310
IPL017WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPL017WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
L119-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	23.5	1.89	.270	.700	.540	2.54	.300	19.8	.540	.280	.730	3.27	-.100	1.28	30.3	.830	.590	.110	65.0	-.160	.080	114	.260	.520	.190	.250	.370	.410

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8L009001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8L009002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8L009003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8L009004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8L009005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8L009006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8L009007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8L009008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8L009009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8L009010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8L009011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8L009012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8L009013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8L009014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8L009015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLL081		ID8L009016			1	☒	MRL-EMAX	None
17	4	2	4	1	Unk	MRLL082		ID8L009017			1	☒	unk	---
18	5	2	5	1	QC	ICSA1		ID8L009018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8L009019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8L009020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8L009021			1	☒	3XIDL	None
22	53	2	5	5	QC	IPK064WB		ID8L009022			1	☒	1/2LOQ	None
23	54	2	6	5	QC	IPK064WL		ID8L009023			1	☒	LCS	None
24	55	2	7	5	QC	IPK064WC		ID8L009024			1	☒	LCS-200.7	None
25	56	2	8	5	Unk	K772-01A		ID8L009025			1	☒	unk	---
26	57	2	9	5	Unk	K772-01		ID8L009026			1	☒	unk	---
27	58	2	10	5	Unk	K772-01J		ID8L009027			1	☒	unk	---
28	59	2	11	5	QC	ICSA2		ID8L009028			1	☒	ICSA	None
29	60	2	12	5	QC	ICSAB2		ID8L009029			1	☒	ICSAB	None
30	61	3	1	1	QC	CCV2		ID8L009030			1	☒	CCV	None
31	62	3	2	1	QC	CCB2		ID8L009031			1	☒	3XIDL	None
32	102	3	6	4	QC	MRLL083		ID8L009032			1	☒	MRL-EMAX	None
33	103	3	7	4	QC	IPL011WQ		ID8L009033			1	☒	1/2LOQ	None
34	104	3	8	4	QC	IPL011WX		ID8L009034			1	☒	LCS	None
35	105	3	9	4	QC	IPL011WY		ID8L009035			1	☒	LCS	None
36	9	2	9	1	Unk	L020-03A	TOT	ID8L009036			1	☒	unk	---
37	10	2	10	1	Unk	L020-03W	TOT	ID8L009037			1	☒	unk	---
38	11	2	11	1	Unk	L020-03J	TOT	ID8L009038			1	☒	unk	---
39	13	2	1	2	Unk	L027-01T	10X	ID8L009039			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	15	2	3	2	Unk	L027-06T	10X	ID8L009040			1	☒	unk	---
41	106	3	10	4	QC	CCV3		ID8L009041			1	☒	CCV	None
42	107	3	11	4	QC	CCB3		ID8L009042			1	☒	3XIDL	None
43	12	2	12	1	Unk	L027-01W		ID8L009043			1	☒	unk	---
44	14	2	2	2	Unk	L027-02W		ID8L009044			1	☒	unk	---
45	108	3	12	4	Unk	L027-04W		ID8L009045			1	☒	unk	---
46	109	3	1	5	Unk	L027-06W		ID8L009046			1	☒	unk	---
47	16	2	4	2	Unk	L027-07W		ID8L009047			1	☒	unk	---
48	17	2	5	2	QC	CCV4		ID8L009048			1	☒	CCV	None
49	18	2	6	2	QC	CCB4		ID8L009049			1	☒	3XIDL	None
50	19	2	7	2	Unk	K574-07A	5X TCLP	ID8L009050			1	☒	unk	---
51	20	2	8	2	Unk	K574-07T	5X TCLP	ID8L009051			1	☒	unk	---
52	21	2	9	2	Unk	K574-07J	25X TCLP	ID8L009052			1	☒	unk	---
53	22	2	10	2	Unk	K574-07G	5X TCLP	ID8L009053			1	☒	unk	---
54	23	2	11	2	Unk	K574-07H	5X TCLP	ID8L009054			1	☒	unk	---
55	24	2	12	2	QC	CCV5		ID8L009055			1	☒	CCV	None
56	25	2	1	3	QC	CCB5		ID8L009056			1	☒	3XIDL	None
57	26	2	2	3	Unk	L020-04T	10X TOT	ID8L009057			1	☒	unk	---
58	27	2	3	3	Unk	L020-05T	10X TOT	ID8L009058			1	☒	unk	---
59	28	2	4	3	Unk	L028-02T	10X TOT	ID8L009059			1	☒	unk	---
60	29	2	5	3	Unk	L028-03W	TOT	ID8L009060			1	☒	unk	---
61	30	2	6	3	Unk	L028-04T	10X TOT	ID8L009061			1	☒	unk	---
62	31	2	7	3	Unk	L028-05W	TOT	ID8L009062			1	☒	unk	---
63	32	2	8	3	QC	CCV6		ID8L009063			1	☒	CCV	None
64	33	2	9	3	QC	CCB6		ID8L009064			1	☒	3XIDL	None
65	34	2	10	3	Unk	L076-01A	XRF	ID8L009065			1	☒	unk	---
66	35	2	11	3	Unk	L076-01W	XRF	ID8L009066			1	☒	unk	---
67	36	2	12	3	Unk	L076-01J	XRF	ID8L009067			1	☒	unk	---
68	37	2	1	4	Unk	L028-04W	DISS	ID8L009068			1	☒	unk	---
69	38	2	2	4	Unk	L075-05	dried & sieved	ID8L009069			1	☒	unk	---
70	39	2	3	4	Unk	L075-07	dried & sieved	ID8L009070			1	☒	unk	---
71	40	2	4	4	QC	CCV7		ID8L009071			1	☒	CCV	None
72	41	2	5	4	QC	CCB7		ID8L009072			1	☒	3XIDL	None
73	42	2	6	4	QC	IPL016SB		ID8L009073			1	☒	1/2LOQ	None
74	43	2	7	4	QC	IPL016SL		ID8L009074			1	☒	LCS	None
75	44	2	8	4	QC	IPL016SC		ID8L009075			1	☒	LCS	None
76	45	2	9	4	Unk	L076-04A	dried & sieved	ID8L009076			1	☒	unk	---
77	46	2	10	4	Unk	L076-04	dried & sieved	ID8L009077			1	☒	unk	---
78	47	2	11	4	Unk	L076-04J	dried & sieved	ID8L009078			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	48	2	12	4	Unk	L076-04M	dried & sieved	ID8L009079			1	☒	unk	—
80	49	2	1	5	Unk	L076-04S	dried & sieved	ID8L009080			1	☒	unk	—
81	50	2	2	5	Unk	L076-01	dried & sieved	ID8L009081			1	☒	unk	—
82	51	2	3	5	QC	CCV8	TSe	ID8L009082			1	☒	CCV	None
83	52	2	4	5	QC	CCB8		ID8L009083			1	☒	3XIDL	None
84	63	3	3	1	QC	IPL012WB		ID8L009084			1	☒	1/2LOQ	None
85	64	3	4	1	QC	IPL012WL		ID8L009085			1	☒	LCS	None
86	65	3	5	1	QC	IPL012WC		ID8L009086			1	☒	LCS	None
87	66	3	6	1	Unk	L007-03A		ID8L009087			1	☒	unk	—
88	67	3	7	1	Unk	L007-03		ID8L009088			1	☒	unk	—
89	68	3	8	1	Unk	L007-03J		ID8L009089			1	☒	unk	—
90	69	3	9	1	Unk	L007-03M		ID8L009090			1	☒	unk	—
91	70	3	10	1	Unk	L007-03S		ID8L009091			1	☒	unk	—
92	71	3	11	1	Unk	L007-04		ID8L009092			1	☒	unk	—
93	72	3	12	1	Unk	L007-05		ID8L009093			1	☒	unk	—
94	73	3	1	2	QC	CCV9		ID8L009094			1	☒	CCV	None
95	74	3	2	2	QC	CCB9		ID8L009095			1	☒	3XIDL	None
96	75	3	3	2	Unk	L030-13		ID8L009096			1	☒	unk	—
97	76	3	4	2	Unk	L005-03		ID8L009097			1	☒	unk	—
98	77	3	5	2	Unk	L005-04		ID8L009098			1	☒	unk	—
99	78	3	6	2	Unk	L005-04M		ID8L009099			1	☒	unk	—
100	79	3	7	2	Unk	L005-04S		ID8L009100			1	☒	unk	—
101	80	3	8	2	Unk	L005-13		ID8L009101			1	☒	unk	—
102	81	3	9	2	Unk	L005-14		ID8L009102			1	☒	unk	—
103	82	3	10	2	QC	ICSA2		ID8L009103			1	☒	ICSA	None
104	83	3	11	2	QC	ICSAB2		ID8L009104			1	☒	ICSAB	None
105	84	3	12	2	QC	CCV10		ID8L009105			1	☒	CCV	None
106	85	3	1	3	QC	CCB10		ID8L009106			1	☒	3XIDL	None
107	86	3	2	3	Unk	K362-03T	5X TOT	ID8L009107			1	☒	unk	—
108	87	3	3	3	Unk	K362-04T	5X TOT	ID8L009108			1	☒	unk	—
109	88	3	4	3	Unk	K362-05T	5X TOT	ID8L009109			1	☒	unk	—
110	89	3	5	3	Unk	K362-03T	5X DISS	ID8L009110			1	☒	unk	—
111	90	3	6	3	Unk	K362-04T	5X DISS	ID8L009111			1	☒	unk	—
112	91	3	7	3	Unk	K362-05T	5X DISS	ID8L009112			1	☒	unk	—
113	92	3	8	3	QC	CCV11		ID8L009113			1	☒	CCV	None
114	93	3	9	3	QC	CCB11		ID8L009114			1	☒	3XIDL	None
115	94	3	10	3	Unk	L003-02T	5X TOT	ID8L009115			1	☒	unk	—
116	95	3	11	3	Unk	L003-03T	5X TOT	ID8L009116			1	☒	unk	—
117	96	3	12	3	Unk	L003-05T	5X TOT	ID8L009117			1	☒	unk	—

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	97	3	1	4	Unk	L003-02T	5X DISS	ID8L009118			1	☒	unk	---
119	98	3	2	4	Unk	L003-03T	5X DISS	ID8L009119			1	☒	unk	---
120	99	3	3	4	Unk	L003-05T	5X DISS	ID8L009120			1	☒	unk	---
121	100	3	4	4	QC	CCV12	Tle	ID8L009121			1	☒	CCV	None
122	101	3	5	4	QC	CCB12		ID8L009122			1	☒	3XIDL	None
123	110	3	2	5	QC	IPL017WB		ID8L009123			1	☒	1/2LOQ	None
124	111	3	3	5	QC	IPL017WL		ID8L009124			1	☒	LCS	None
125	112	3	4	5	QC	IPL017WC		ID8L009125			1	☒	LCS	None
126	113	3	5	5	Unk	L119-02A		ID8L009126			1	☒	unk	---
127	114	3	6	5	Unk	L119-02		ID8L009127			1	☒	unk	---
128	115	3	7	5	Unk	L119-02J		ID8L009128			1	☒	unk	---
129	116	3	8	5	Unk	L119-02M		ID8L009129			1	☒	unk	---
130	117	3	9	5	Unk	L119-02S		ID8L009130			1	☒	unk	---
131	118	3	10	5	Unk	L119-01		ID8L009131			1	☒	unk	---
132	119	3	11	5	QC	CCV13		ID8L009132			1	☒	CCV	None
133	120	3	12	5	QC	CCB13		ID8L009133			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00147	.00002	-.00001	.00030	.00015	.00087	-.00031	.00071	.00005	-.00085	Blank
2	S20					.90920		2.7232				S20
3	S21					8.6736		24.934				S21
4	S22				.49513						.15938	S22
5	S23				4.8724						1.6534	S23
6	S24						.10459					S24
7	S25						1.0672					S25
8	S26	.27349							.87664	.15078		S26
9	S27	9.9265							8.0892	1.4327		S27
10	S28		.00564									S28
11	S29		.05511									S29
12	S30			.00142								S30
13	S31			.00571								S31
14	ICV	107.25	1.5332	1.0576	2.0156	1.4959	2.4904	2.0935	77.964	2.4603	.95416	ICV
15	ICB	.02622	.00052	.00077	.00078	.00060	.00353	.00017	.04685	.00063	.00012	ICB
16	MRLL081	.22115	.10385	.01045	.01025	.01009	.00377*	.01040	9.5739*	.01028	.00939	MRLL081
17	MRLL082	-.00808	.00009	.00084	-.00027	-.00006	-.00179	-.00012	-.00216	.00004	-.00001	MRLL082
18	ICSA1	405.63	.00748	-.00263	.00092	-.00013	.01013	.00168	485.75	.00117	-.00076	ICSA1
19	ICSAB1	419.59	1.0690	1.0846	.53262	.49315	.51305	1.0692	495.78	.48004	.47354	ICSAB1
20	CCV1	108.12	1.5435	1.0603	2.0049	1.4890	2.5166	2.0904	77.776	2.4795	.95437	CCV1
21	CCB1	.02644	.00051	.00014	.00018	.00032	.00263	.00011	.03059	.00007	.00012	CCB1
22	IPK064WB	.00449	-.00041	.00088	.00018	-.00003	-.00113	-.00006	.08928	-.00013	.00004	IPK064WB
23	IPK064WL	5.7514	2.6355	.54242	.49904	.50506	.51323	.53625	52.112	.49599	.47756	IPK064WL
24	IPK064WC	5.8734*	2.6838	.55020	.50540	.50608	.52115	.54163	52.779	.50836	.48365	IPK064WC
25	K772-01A	6.0790	2.6831	.57835	.54731	.49353	.92276	.54005	141.75	.50183	.48239	K772-01A
26	K772-01	.02781	.00360	.00004	.05364	-.00005	.47646	.00022	110.73	.00052	.00002	K772-01
27	K772-01J	.00001	.00273	.00048	.00918	.00020	.07467	.00011	19.432	.00017	.00012	K772-01J
28	ICSA2	402.50	.00736	.00149	.00098	-.00007	.01278	.00174	490.48	.00118	-.00073	ICSA2
29	ICSAB2	410.63	1.0805	1.1004	.53163	.49232	.51969	1.0716	488.29	.48242	.47167	ICSAB2
30	CCV2	107.07	1.5344	1.0520	1.9810	1.4794	2.4846	2.0794	77.670	2.4490	.94488	CCV2
31	CCB2	.03546	.00169	.00006	.00047	.00035	.00303	.00019	.25407	.00022	.00013	CCB2
32	MRLL083	.22719	.10417	.01029	.01078	.01064	.00511*	.01098	1.1720	.01082	.00989	MRLL083
33	IPL011WQ	.01802	.00091	-.00088	.00005	.00001	-.00207	-.00010	.07911	-.00012	.00008	IPL011WQ
34	IPL011WX	5.7778	2.6447	.54374	.49784	.50587	.51800	.53609	52.847	.50905	.47944	IPL011WX
35	IPL011WY	5.7905	2.6647	.54891	.50259	.50630	.51664	.54107	52.744	.50927	.48184	IPL011WY
36	L020-03A	6.1588	2.6536	.57918	.51250	.49906	1.1110	.54523	64.745	.67367	.49056	L020-03A
37	L020-03W	.12481	-.00022	.01044	.00793	-.00008	.62043	-.00005	14.490	.18387	-.00001	L020-03W
38	L020-03J	.02141	.00180	.00173	.00157	.00004	.11795	-.00006	2.9125	.03605	-.00003	L020-03J
39	L027-01T	.00115	.00156	.00100	.05960	-.00003	.05932	-.00021	23.419	.00056	.00407	L027-01T
40	L027-06T	-.00373	.00054	.00159	.09144	-.00007	.08262	-.00021	19.694	.00020	.00027	L027-06T
41	CCV3	107.25	1.5328	1.0504	1.9862	1.4755	2.4636	2.0724	77.269	2.4378	.93917	CCV3
42	CCB3	.00889	.00139	-.00028	.00042	.00040	.00289	.00017	.02233	.00016	.00012	CCB3
43	L027-01W	.04275	.00272	.01670	.62064	-.00008	.63378	.00167	222.33	.00573	.03996	L027-01W
44	L027-02W	.00957	-.00075	.00041	.00035	.00000	-.00367	-.00006	.07533	.00003	.00010	L027-02W
45	L027-04W	.01413	.00024	-.00302	.22979	-.00006	.22068	.00012	56.606	.00065	-.00061	L027-04W
46	L027-06W	.02045	.00087	.01555	.92911	-.00007	.88952	.00002	191.30	.00297	.00297	L027-06W
47	L027-07W	-.00566	-.00087	.00017	.00036	-.00007	-.00433	-.00011	-.00713	-.00025	-.00004	L027-07W
48	CCV4	105.67	1.5543	1.0987	1.9837	1.4912	2.5151	2.0681	79.505	2.6098	.91453	CCV4
49	CCB4	.03881	.00144	.00053	.00130	.00102	.00505	.00071	.05295	.00102	.00032	CCB4
50	K574-07A	5.4233	2.5221	.58636	.48863	.51103	.49763	.54339	54.601	.53782	.47522	K574-07A
51	K574-07T	.06399	.00646	.00169	.01674	.01411	.00930	.00110	1.7233	.00733	.00118	K574-07T
52	K574-07J	.00028	.00217	.00017	.00108	.00041	.00062	.00012	.07302	.00014	.00020	K574-07J
53	K574-07G	1.0683	.50563	.11422	.10628	.10443	.10123	.10887	11.276	.10582	.09615	K574-07G
54	K574-07H	1.05B4	.49748	.11336	.10585	.10349	.09993	.10797	11.162	.10484	.09541	K574-07H

55	CCV5	105.68	1.5288	1.0666	1.9679	1.4896	2.4581	2.0735	79.815	2.5015	.92729	CCV5
56	CCB5	.01593	.00107	.00025	.00073	.00052	.00262	.00029	.01586	.00047	.00021	CCB5
57	L020-04T	.01007	-.01281	.00089	.00243	.00004	.08177	.00003	3.5553	1.5605	.00027	L020-04T
58	L020-05T	.01771	-.00932	.00065	.00340	.00003	.08410	-.00005	6.3820	1.1433	.00013	L020-05T
59	L028-02T	.01221	-.02123	.00115	.00397	-.00002	.06904	-.00005	7.4052	2.4576	.00028	L028-02T
60	L028-03W	.17520	.00294	.04475	.03504	-.00004	.79075	-.00044	119.69	.11308	.04066	L028-03W
61	L028-04T	-.00231	-.00864	.00151	.00284	-.00005	.06314	-.00007	5.2956	1.1749	.00000	L028-04T
62	L028-05W	.14986	-.05339	.01285	.00722	-.00010	1.0051	-.00003	56.421	5.9459	.00082	L028-05W
63	CCV6	106.10	1.5570	1.0830	1.9890	1.4833	2.4710	2.0754	78.207	2.4829	.92889	CCV6
64	CCB6	.02232	.00062	.00077	.00074	.00065	.00382	.00038	.02463	.00087	.00020	CCB6
65	L076-01A	99.288	2.5176	.60416	1.4032	.51366	.57035	.63521	93.115	.63759	.52635	L076-01A
66	L076-01W	92.935	.00952	.06185	.91388	.00662	.09531	.09259	42.565	.12652	.03482	L076-01W
67	L076-01J	18.695	.00152	.01156	.17959	.00112	.01827	.01732	8.5111	.02469	.00653	L076-01J
68	L028-04W	.03506	-.14966*	.00667	.02564	-.00009	.68353	.00009	54.836	16.386*	.00114	L028-04W
69	L075-05	83.299	.01259	.09987	1.1990	.00759	.03728	.02659	103.05	.19287	.06207	L075-05
70	L075-07	88.226	.01225	.09307	1.0394	.00682	.03955	.00895	22.285	.25806	.07730	L075-07
71	CCV7	104.93	1.5781	1.0972	1.9710	1.4826	2.4678	2.0870	78.807	2.4707	.93525	CCV7
72	CCB7	.00350	.00077	-.00057	.00023	.00014	.00203	.00005	.00216	.00002	.00003	CCB7
73	IPL016S8	.02318	.00153	-.00115	.00048	.00019	.00031	.00002	.02152	.00032	.00005	IPL016S8
74	IPL016SL	5.2167	2.5762	.53670	.49729	.50338	.45901	.55092	54.416	.51139	.49114	IPL016SL
75	IPL016SC	5.3356	2.6083	.54961	.50531	.51370	.46787	.55990	53.782	.52092	.49836	IPL016SC
76	L076-04A	80.961	2.5433	.60584	1.5782	.50574	.48541	.70180	102.98	.61935	.56977	L076-04A
77	L076-04	75.729	.01285	.06546	1.1201	.00696	.02222	.16293	53.780	.12001	.08059	L076-04
78	L076-04J	15.337	.00223	.01288	.21594	.00134	.00329	.02988	10.633	.02349	.01507	L076-04J
79	L076-04M	120.69	2.4767	.59895	1.6616	.49744	.45351	.69460	105.77	.64126	.56356	L076-04M
80	L076-04S	109.30	2.4478	.59756	1.6412	.49825	.43237	.69817	105.66	.63239	.56345	L076-04S
81	L076-01	74.819	.01337	.07522	1.0912	.00640	.02383	.12073	52.405	.12163	.04272	L076-01
82	CCV8	105.80	1.5799	1.1041*	1.9848	1.4884	2.4963	2.0897	78.799	2.5030	.93654	CCV8
83	CCB8	.00173	.00084	-.00014	-.00002	.00010	.00222	.00003	-.00565	-.00017	.00009	CCB8
84	IPL012W8	.01930	.00016	-.00004	.00003	-.00002	-.00158	-.00007	.01726	-.00021	.00020	IPL012W8
85	IPL012WL	5.6442	2.7104	.56429	.49325	.50486	.50546	.53296	52.981	.50702	.46892	IPL012WL
86	IPL012WC	5.7105	2.7227	.57107	.49976	.50634	.51072	.53495	52.895	.51042	.47398	IPL012WC
87	L007-03A	6.7122	2.7667	.60162	.58859	.50556	.82789	.54872	143.66	.52290	.48518	L007-03A
88	L007-03	.79417	.00118	.00154	.08228	.00015	.30579	.00017	96.864	.01196	.00123	L007-03
89	L007-03J	.14822	.00187	-.00028	.01651	.00020	.05699	.00003	19.677	.00255	.00022	L007-03J
90	L007-03M	6.6077	2.7899	.59076	.58689	.50226	.84391	.54287	147.66	.51941	.47705	L007-03M
91	L007-03S	6.6297	2.7540	.58214	.59019	.50299	.84082	.54228	147.16	.51607	.47722	L007-03S
92	L007-04	.00862	.00073	.00185	.04591	-.00005	.08470	.00002	45.817	.00422	-.00008	L007-04
93	L007-05	.00178	-.00006	.00444	.04108	-.00006	.01336	-.00002	22.764	.00285	-.00008	L007-05
94	CCV9	105.34	1.5630	1.0889	2.0039	1.4928	2.4578	2.0970	78.151	2.4369	.93922	CCV9
95	CCB9	.02632	.00192	.00045	.00061	.00053	.00295	.00037	.03036	.00056	.00024	CCB9
96	L030-13	.05442	-.00044	.00181	.38691	.00008	.32840	.00075	146.94	.00296	.00013	L030-13
97	L005-03	.00791	-.00052	.00247	.36497	-.00007	.09185	.00005	140.58	.00180	.00034	L005-03
98	L005-04	.00884	-.00044	.00109	.25217	.00000	.03999	.00010	88.986	.00061	.00010	L005-04
99	L005-04M	5.9469	2.7667	.58539	.76459	.51641	.56871	.54983	140.92	.51739	.48347	L005-04M
100	L005-04S	5.8813	2.7484	.57984	.75619	.50937	.57056	.54187	139.57	.51653	.47716	L005-04S
101	L005-13	.14772	.00278	.01615	.19383	-.00005	.02382	.00041	26.014	.00115	.00025	L005-13
102	L005-14	.04125	-.00023	.00105	.59600	-.00004	.05811	.00016	107.35	.00243	.00000	L005-14
103	ICSA2	407.62	.00874	-.00204	.00138	.00004	.00983	-.00046	495.95	.00139	-.00052	ICSA2
104	ICSAB2	403.72	1.0874	1.1247	.53187	.49437	.51386	1.0670	491.85	.48472	.46450	ICSAB2
105	CCV10	106.44	1.5610	1.0884	2.0044	1.4971	2.4852	2.0915	79.006	2.4807	.93908	CCV10
106	CCB10	.03932	.00110	-.00110	.00045	.00039	.00211	.00016	.05419	.00022	.00001	CCB10
107	K362-03T	.03786	-.20661*	.00418	.00700	-.00015	.18688	.00002	16.673	22.494*	.00183	K362-03T
108	K362-04T	.05341	-.21247*	.00497	.01197	-.00016	.20396	-.00007	13.546	23.100*	.00175	K362-04T
109	K362-05T	.11224	-.13378*	.00392	.00779	-.00011	.17131	-.00006	13.712	14.500*	.00133	K362-05T
110	K362-03T	.00459	-.20179*	.00497	.00621	-.00012	.18102	.00003	16.396	21.962*	.00177	K362-03T
111	K362-04T	.00282	-.21546*	.00541	.01125	-.00017	.19893	-.00004	13.491	23.232*	.00175	K362-04T

112	K362-05T	.00262	-.13328*	.00447	.00670	-.00010	.16727	.00000	12.104	14.241*	.00107	K362-05T
113	CCV11	105.38	1.5486	1.0813	2.0189	1.4986	2.4630	2.0963	78.283	2.4547	.94175	CCV11
114	CCB11	.02253	.00166	-.00050	.00065	.00049	.00181	.00024	.01436	.00219	.00014	CCB11
115	L003-02T	.03783	-.04186	.00288	.00099	-.00004	.18716	-.00004	6.7929	4.6212	.00033	L003-02T
116	L003-03T	.02474	-.24615*	.00519	.00638	-.00015	.21329	.00001	10.919	26.465*	.00213	L003-03T
117	L003-05T	.04505	-.03488	.00041	.00779	-.00002	.14045	-.00006	12.812	3.8434	.00035	L003-05T
118	L003-02T	.00281	-.04216	.00150	.00010	-.00004	.18305	-.00007	6.4416	4.6503	.00042	L003-02T
119	L003-03T	-.00044	-.22826*	.00545	.00588	-.00014	.20029	.00004	9.9032	24.701*	.00192	L003-03T
120	L003-05T	-.00023	-.03698	.00106	.00708	-.00003	.14289	-.00004	13.099	4.1154	.00032	L003-05T
121	CCV12	105.76	1.5691	1.1002*	2.0032	1.4930	2.4934	2.0896	78.318	2.4939	.93709	CCV12
122	CCB12	.02524	.00125	-.00003	.00065	.00052	.00209	.00029	.01751	.00167	.00014	CCB12
123	IPL017WB	.01967	-.00041	-.00042	.00020	.00001	.00257	.00000	.00279	.00020	.00013	IPL017WB
124	IPL017WL	6.1782*	2.8452	.61034*	.53716	.55444	.56842	.56942	56.412	.54180	.49823	IPL017WL
125	IPL017WC	6.3446*	2.7694	.63120*	.54134	.55753	.59624	.54584	54.403	.57144	.47326	IPL017WC
126	L119-02A	6.2541	2.6882	.61326	.51919	.52107	.67767	.54844	68.912	.51636	.48175	L119-02A
127	L119-02	.37552	.00075	.01613	.00242	.00014	.15217	.00002	18.102	.00033	.00063	L119-02
128	L119-02J	.06599	.00076	.00314	.00061	.00011	.02598	-.00004	3.5651	.00030	.00026	L119-02J
129	L119-02M	6.1402	2.7581	.59349	.51049	.51643	.67786	.54439	70.245	.50216	.47395	L119-02M
130	L119-02S	6.3704	2.8684	.61804	.52930	.53554	.70247	.56667	72.877	.52003	.49457	L119-02S
131	L119-01	.75758	-.02058	5.6996	.08347	.00000	.34661	.00004	23.363	.00055	.00019	L119-01
132	CCV13	105.04	1.5440	1.0793	2.0158	1.4972	2.4480	2.1007	77.717	2.4392	.93710	CCV13
133	CCB13	.02346	.00189	.00027	.00070	.00054	.00254	.00030	.01978	.00054	.00028	CCB13
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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ID8L009 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00144	.00003	.00014	-.00012	.00000	.00004	.00006	-.00027	.00040	.00000	Blank
2	S20			.19840			.11890					S20
3	S21			1.9342			1.1444					S21
4	S22	.36457	.06312									S22
5	S23	3.5545	2.4122									S23
6	S24							.74980				S24
7	S25							7.4544				S25
8	S26								.78074	.33647		S26
9	S27								7.2261	3.2774		S27
10	S28					.11020						S28
11	S29					.45176						S29
12	S30				.02829						.00157	S30
13	S31				.14038						.00625	S31
14	ICV	2.5466	24.615	2.4001	.53369	56.001	2.3720	2.5265	2.5676	62.111	1.0642	ICV
15	ICB	.00065	.00520	.00041	.00100	.02796	.00101	.00052	.00005	.02442	-.00057	ICB
16	MRLL081	.01033	.21332	.00956	.01138	.98151	.01081	.01040	.01060	1.0177	.01000	MRLL081
17	MRLL082	.00005	-.00219	-.00060	.00112	.00017	-.00013	-.00005	-.00017	-.05532	.00010	MRLL082
18	ICSA1	.00189	186.58	.00142	.00672	187.15	.00062	-.00189	-.00124	.05763	.00019	ICSA1
19	ICSA81	.53528	190.60	.94307	1.1164	194.29	.46336	1.0395	1.0298	83.271	1.0922	ICSAB1
20	CCV1	2.5611	24.819	2.3963	.53271	55.760	2.3658	2.5200	2.5685	62.187	1.0735	CCV1
21	CCB1	.00011	.01063	-.00050	.00112	.02231	.00051	.00030	-.00015	.00755	-.00011	CCB1
22	IPK064WB	.00056	.01834	-.00050	.00086	.01116	.00012	.00000	-.00006	-.07460	-.00051	IPK064WB
23	IPK064WL	.50928	5.2296	.50302	.00141*	47.399	.48500	.50834	.52903	52.341	.54160	IPK064WL
24	IPK064WC	.51970	5.3275	.50699	.00095*	47.813	.49281	.51267	.53488	53.279	.55026	IPK064WC
25	K772-01A	.53188	5.2448	.51735	.00871	83.542	.50672	.50466	.53090	71.671	.58271	K772-01A
26	K772-01	.00645	-.00048	.01870	.00968	43.259	.02354	.00524	.00254	21.327	-.00037	K772-01
27	K772-01J	.00122	-.00033	.00245	.00229	7.3992	.00420	.00091	.00035	3.3591	-.00072	K772-01J
28	ICSA2	.00184	186.81	-.00032	.00633	187.61	.00066	-.00184	-.00113	.06167	.00162	ICSA2
29	ICSAB2	.53489	187.78	.94362	1.1111	188.59	.46263	1.0412	1.0275	82.754	1.0961	ICSAB2
30	CCV2	2.5174	24.720	2.3891	.52721	55.608	2.3415	2.5103	2.5489	61.857	1.0585	CCV2
31	CCB2	.00045	.01469	-.00079	.00105	.04285	.00053	.00044	.00011	.02570	.00024	CCB2
32	MRLL083	.01078	.22211	.01012	.01194	.98186	.01089	.01062	.01107	1.0109	.01137	MRLL083
33	IPL011WQ	.00015	.00555	-.00068	.00121	.03569	.00013	.00002	-.00015	-.03340	-.00034	IPL011WQ
34	IPL011WX	.51121	5.3014	.49996	.00141*	47.968	.48674	.51161	.52979	52.779	.53829	IPL011WX
35	IPL011WY	.51308	5.3489	.50557	.00115*	47.841	.48887	.51482	.53348	53.188	.54247	IPL011WY
36	L020-03A	.53363	5.3603	.51406	.01032	54.456	.50130	.54640	.54002	65.185	.56072	L020-03A
37	L020-03W	.00248	.14978	.01107	.01007	8.1873	.01243	.03590	.00181	11.737	.00008	L020-03W
38	L020-03J	.00078	.03100	.00210	.00278	1.6278	.00246	.00700	.00010	2.1769	.00008	L020-03J
39	L027-01T	.00056	6.0528	.00297	.00411	49.334	2.7874	-.00031	.00610	5.5140	-.00057	L027-01T
40	L027-06T	.00025	3.1265	.00217	.00257	37.571	1.1117	-.00020	.00033	2.9012	-.00041	L027-06T
41	CCV3	2.5009	24.658	2.3826	.52689	55.522	2.3333	2.4943	2.5326	61.758	1.0573	CCV3
42	CCB3	.00043	.00040	-.00071	.00159	.02112	.00073	.00038	-.00013	.02156	-.00022	CCB3
43	L027-01W	.00270	58.020	.03811	.03639	510.60	26.656	-.00190	.06349	66.285	.00023	L027-01W
44	L027-02W	.00042	.02220	-.00048	.00108	.15866	.00896	.00005	.00046	.30232	.00026	L027-02W
45	L027-04W	.00127	.06250	.04414	.00233	184.64	1.1784	-.00037	.00247	7.3824	-.00009	L027-04W
46	L027-06W	.00140	30.825	.03018	.02240	401.90	10.858	-.00131	.00807	33.462	-.00113	L027-06W
47	L027-07W	.00008	.00120	-.00073	.00036	.03896	.00100	-.00006	.00038	.22861	-.00067	L027-07W
48	CCV4	2.4187	26.375	2.3755	.52480	57.459	2.3756	2.3910	2.4842	62.547	1.0865	CCV4
49	CCB4	.00096	.01201	.00023	.00113	.07212	.00231	.00103	.00077	.05927	.00036	CCB4
50	K574-07A	.48106	5.5504	.49874	.00159	50.251	.50450	.49209	.52642	51.767	.62188	K574-07A
51	K574-07T	.00616	.08037	.00096	.00081	1.4812	.01463	.00120	.00108	1.2930	.00621	K574-07T
52	K574-07J	.00006	.00301	.00030	.00090	.05292	.00075	.00023	-.00007	.01480	.00121	K574-07J
53	K574-07G	.09805	1.0953	.10036	.00103	10.010	.10202	.10141	.10704	10.239	.12807	K574-07G
54	K574-07H	.09702	1.0855	.10034	.00072	9.9209	.10059	.10035	.10626	10.171	.12748	K574-07H

55	CCV5	2.4323	25.340	2.3795	.51831	57.852	2.3763	2.4567	2.5129	62.016	1.0676	CCV5
56	CCB5	.00050	.00331	-.00017	.00091	.02221	.00077	.00050	.00032	-.00129	.00001	CCB5
57	L020-04T	.00025	.01648	.00091	.00370	2.4182	.00054	.00460	.00004	1.9302	-.00064	L020-04T
58	L020-05T	.00065	.08320	.00131	.00396	4.3760	.02279	.00109	.00077	1.5129	-.00074	L020-05T
59	L028-02T	.00012	.02549	.00040	.00366	5.3708	.00302	.00110	.00007	1.4876	-.00056	L028-02T
60	L028-03W	.00220	132.57	.03907	.06827	80.594	6.3998	.00161	.02455	24.069	.00522	L028-03W
61	L028-04T	.00060	.05032	.00095	.00380	4.1801	.00318	.00032	-.00015	1.3599	.00051	L028-04T
62	L028-05W	.00211	2.4252	.01355	.04491	73.771	.71309	.00281	.00145	37.048	.00249	L028-05W
63	CCV6	2.4632	25.099	2.3825	.52520	56.497	2.3489	2.4508	2.5156	62.010	1.0856	CCV6
64	CCB6	.00060	.00729	.00019	.00164	.03945	.00098	.00055	.00023	.06790	.00005	CCB6
65	L076-01A	.89362	101.85	1.4458	.05034	63.096	3.1574	.51814	.61172	60.635	.53986	L076-01A
66	L076-01W	.37463	100.26	.98734	.04979	15.863	2.7585	.00411	.07504	8.1731	.00728	L076-01W
67	L076-01J	.07210	20.167	.19697	.00935	3.1882	.55351	.00050	.01403	1.4787	.00096	L076-01J
68	L028-04W	.00161	.04649	.01148	.04144	44.096	.00503	.00424	.00043	15.660	.00105	L028-04W
69	L075-05	.10138	197.80	.55661	.04104	6.1441	3.6125	.01052	.08591	8.2733	.00686	L075-05
70	L075-07	.08265	212.99	1.7614	.04232	6.0725	4.0128	.00912	.07703	9.2561	.00685	L075-07
71	CCV7	2.4634	24.962	2.3967	.52157	57.138	2.3546	2.4756	2.5271	61.689	1.1009*	CCV7
72	CCB7	.00033	.00417	-.00040	.00151	.01535	.00040	.00026	-.00021	.00491	-.00048	CCB7
73	IPL016SB	.00040	.01345	-.00084	.00073	.02622	.00083	.00045	-.00008	.00274	.00038	IPL016SB
74	IPL016SL	.49455	5.2129	.50056	.00079*	49.631	.49129	.53551	.54086	52.977	.52471	IPL016SL
75	IPL016SC	.50329	5.3092	.51053	.00113*	49.062	.49826	.53827	.54856	52.489	.53545	IPL016SC
76	L076-04A	.72642	106.39	1.4761	.03455	57.033	5.3616	.53024	.62257	57.272	.53860	L076-04A
77	L076-04	.21872	105.59	1.0314	.03511	10.554	5.1164	.00387	.08766	5.4904	.00757	L076-04
78	L076-04J	.04180	21.239	.20076	.00730	2.1057	1.0149	.00054	.01583	.98152	.00152	L076-04J
79	L076-04M	.73024	121.41	1.5041	.05665	59.984	5.5946	.53144	.62510	59.171	.51900	L076-04M
80	L076-04S	.72648	117.83	1.5083	.04852	59.374	5.5642	.52578	.62110	58.009	.51649	L076-04S
81	L076-01	.44877	114.41	1.2460	.03613	17.626	3.2470	.00523	.08413	7.1553	.00836	L076-01
82	CCV8	2.4972	25.011	2.3927	.52430	57.164	2.3711	2.4701	2.5345	62.088	1.1111*	CCV8
83	CCB8	.00023	.00078	-.00036	.00036	.00555	.00013	.00024	-.00021	.01237	-.00063	CCB8
84	IPL012WB	.00019	.00505	-.00051	.00153	.02019	.00009	-.00001	-.00012	-.03810	-.00025	IPL012WB
85	IPL012WL	.49628	5.2493	.49618	.00161*	48.769	.48722	.50042	.52057	52.506	.55997	IPL012WL
86	IPL012WC	.50352	5.3206	.49945	.00156*	48.569	.48979	.50125	.52487	53.358	.56402	IPL012WC
87	L007-03A	.52377	5.6942	.52185	.02700	72.299	.59710	.50958	.54312	59.346	.59722	L007-03A
88	L007-03	.00602	.37349	.01419	.02612	24.217	.10176	.00203	.01059	3.9556	.00062	L007-03
89	L007-03J	.00148	.07569	.00210	.00617	4.9049	.02085	.00041	.00194	.70707	-.00069	L007-03J
90	L007-03M	.51823	5.6265	.51239	.02730	73.605	.59095	.51539	.53625	59.620	.58287	L007-03M
91	L007-03S	.51691	5.6044	.51141	.02729	73.796	.59162	.51439	.53625	60.265	.57341	L007-03S
92	L007-04	.00097	-.00478	.00897	.01692	10.976	.00020	.00185	.00078	2.9486	.00014	L007-04
93	L007-05	.00055	.00155	.00828	.01084	6.0463	.00030	.00453	.00061	1.9951	.00075	L007-05
94	CCV9	2.4797	24.541	2.4047	.53160	56.897	2.3591	2.4886	2.5391	62.623	1.0944	CCV9
95	CCB9	.00088	.00434	.00005	.00182	.02783	.00090	.00070	.00024	.06756	-.00112	CCB9
96	L030-13	.00307	.11140	.01784	.05349	45.953	.01023	.00093	.00329	10.217	-.00186	L030-13
97	L005-03	.00130	1.5058	.00984	.02191	29.101	.31629	.00127	.00333	2.4950	.00072	L005-03
98	L005-04	.00085	.21148	.00689	.02845	23.582	.67234	.00280	.00184	4.1407	-.00053	L005-04
99	L005-04M	.52105	5.5428	.51727	.02985	73.369	1.1530	.51430	.53646	60.344	.58102	L005-04M
100	L005-04S	.51713	5.4996	.50906	.03021	72.214	1.1466	.51040	.52950	59.500	.57263	L005-04S
101	L005-13	.00283	.25470	.00685	1.0673	10.586	.05230	.02050	.00290	41.223	-.00079	L005-13
102	L005-14	.00113	.03419	.01131	.01406	16.453	.00970	.00013	.00003	3.1116	-.00041	L005-14
103	ICSA2	.00203	190.24	.00102	.00752	192.14	.00097	-.00145	-.00092	.08375	.00047	ICSA2
104	ICSAB2	.52351	187.80	.94282	1.1059	192.09	.46525	1.0189	1.0127	83.735	1.1247	ICSAB2
105	CCV10	2.4995	24.874	2.3975	.53050	57.372	2.3781	2.4794	2.5371	62.962	1.0975	CCV10
106	CCB10	.00042	.01494	-.00004	.00140	.04208	.00063	.00032	-.00002	.08260	-.00009	CCB10
107	K362-03T	.00058	.08802	-.00188	.00972	16.693	.00407	.00167	-.00022	5.6431	.00024	K362-03T
108	K362-04T	.00042	.13256	-.00167	.00966	14.313	.00377	.00310	-.00045	7.5154	.00103	K362-04T
109	K362-05T	.00057	.14575	.00138	.01020	11.294	.00275	.00125	.00004	5.5118	.00151	K362-05T
110	K362-03T	.00028	.03804	-.00230	.00944	16.496	.00259	.00150	-.00067	5.5771	.00045	K362-03T
111	K362-04T	.00025	.03967	-.00132	.00940	14.168	.00267	.00283	-.00067	7.3812	.00160	K362-04T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	K362-05T	.00028	.02205	.00040	.00954	11.033	.00083	.00128	-.00002	5.4486	.00022	K362-05T
113	CCV11	2.5023	24.501	2.4015	.53310	57.031	2.3771	2.4908	2.5455	63.075	1.0889	CCV11
114	CCB11	.00058	.00583	.00022	.00139	.02812	.00067	.00062	-.00001	.06958	.00070	CCB11
115	L003-02T	.00065	.04210	.00083	.00945	11.533	.00521	.00118	-.00004	7.2109	-.00007	L003-02T
116	L003-03T	.00050	.07202	-.00213	.01211	15.481	.00300	.00245	-.00059	9.8347	.00077	L003-03T
117	L003-05T	.00050	.04745	.00182	.00760	8.9368	.00384	.00113	.00052	3.2600	.00060	L003-05T
118	L003-02T	.00056	.00131	.00069	.00926	11.288	.00403	.00132	-.00024	7.0956	.00140	L003-02T
119	L003-03T	.00028	.04266	-.00209	.01152	14.233	.00197	.00236	-.00063	9.3264	.00107	L003-03T
120	L003-05T	.00052	.00279	.00192	.00803	9.3356	.00254	.00120	.00046	3.3279	.00030	L003-05T
121	CCV12	2.5068	24.778	2.3906	.53150	57.092	2.3672	2.4717	2.5340	62.951	1.1074*	CCV12
122	CCB12	.00065	.00342	-.00008	.00142	.03850	.00077	.00061	.00013	.06052	-.00037	CCB12
123	IPL017WB	.00031	.00012	-.00046	.00111	.02281	.00024	.00012	-.00022	.02627	.00004	IPL017WB
124	IPL017WL	.54414	5.6061	.53100	.00125*	51.883	.52489	.51723	.55261	57.279	.61745*	IPL017WL
125	IPL017WC	.57241	5.7066	.55881	.00134*	50.160	.52531	.47039	.54362	62.838*	.64755*	IPL017WC
126	L119-02A	.52696	5.4924	.50693	.00390	60.477	.55567	.49305	.53365	58.919	.60066	L119-02A
127	L119-02	.00133	.21150	.00066	.00327	13.215	.05415	-.00008	.00095	3.2754	-.00074	L119-02
128	L119-02J	.00032	.03969	.00021	.00173	2.5931	.01057	.00001	.00007	.65463	-.00032	L119-02J
129	L119-02M	.50998	5.3796	.50001	.00408	61.915	.54145	.51330	.52713	57.525	.57584	L119-02M
130	L119-02S	.52926	5.5862	.52020	.00371	64.036	.56163	.53385	.54939	59.739	.60088	L119-02S
131	L119-01	.00272	.33764	.01683	.00340	15.315	.53953	.00827	.00173	3.2292	.00020	L119-01
132	CCV13	2.4842	24.405	2.4016	.53104	56.504	2.3579	2.4915	2.5430	62.603	1.0867	CCV13
133	CCB13	.00073	.00327	-.00010	.00128	.03034	.00083	.00059	.00011	.06496	-.00016	CCB13

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00187	-.00009	-.00029	.00006	.00000	-.00011	.00092	Blank
2	S20									S20
3	S21									S21
4	S22							.15857		S22
5	S23							1.5510		S23
6	S24		1.0722							S24
7	S25		6.2386							S25
8	S26									S26
9	S27									S27
10	S28				.13359					S28
11	S29				1.2934					S29
12	S30	.04485		.13266		.02502	.01616		.59781	S30
13	S31	.22111		.65680		.12234	.08031		5.7832	S31
14	ICV	.51324	62.666	.49632	2.3691	.49776	.48937	1.4722	2.6431	ICV
15	ICB	.00014	.02558	.00024	.00091	.00032	.00025	.00040	.00201	ICB
16	MRLL081	.01008	1.0948	.01295*	.01039	.00030	.01078	.01018	.21773*	MRLL081
17	MRLL082	-.00001	-.01719	.00006	-.00033	.00080	.00021	-.00016	.02142	MRLL082
18	ICSA1	.00031	.07811	.02090	-.00211	.00300	.00153	-.00062	.00194	ICSA1
19	ICSAB1	1.1225	82.821	.51690	.90854	.98509	.96804	.49184	1.0671	ICSAB1
20	CCV1	.51681	62.743	.49452	2.3667	.49845	.48612	1.4828	2.6384	CCV1
21	CCB1	-.00002	.02129	.00018	.00005	.00061	.00020	.00016	-.00055	CCB1
22	IPK064WB	.00002	.00346	.00015	.00017	.00024	.00059	.00000	.01565*	IPK064WB
23	IPK064WL	.52373	52.651	.47990	.50592	.50036	.50451	.51030	.54544	IPK064WL
24	IPK064WC	.53695	53.475	.48656	.51160	.50603	.50706	.51922	.55161	IPK064WC
25	K772-01A	.53271	234.81	.95473	.49059	.49007	.48741	.51776	.61524	K772-01A
26	K772-01	.00032	218.89	.58337	-.00002	.00051	.00166	.00292	.07625	K772-01
27	K772-01J	.00003	37.651	.10087	-.00005	.00008	.00038	.00060	.01726	K772-01J
28	ICSA2	.00007	.17168	.02120	-.00234	.00244	.00167	-.00072	.00131	ICSA2
29	ICSAB2	1.1298	82.479	.51611	.90933	.99831	.97110	.49460	1.0734	ICSAB2
30	CCV2	.50877	62.232	.48823	2.3598	.49941	.48343	1.4727	2.6317	CCV2
31	CCB2	-.00001	.03842	.00024	.00018	.00070	.00048	.00020	.00968	CCB2
32	MRLL083	.01082	1.0756	.01077	.01135	.00088	.01060	.01084	.01612*	MRLL083
33	IPL011WQ	-.00002	.01084	.00041	.00020	.00059	.00010	-.00005	.00750	IPL011WQ
34	IPL011WX	.52856	52.987	.48243	.50351	.50180	.50702	.51709	.54993	IPL011WX
35	IPL011WY	.53089	53.284	.48647	.50767	.50715	.50739	.51909	.55295	IPL011WY
36	L020-03A	.53579	326.84	.61762	.48758	.49721	.49801	.51883	.58768	L020-03A
37	L020-03W	-.00009	282.32	.14822	.00043	.00069	.00478	.00473	.02790	L020-03W
38	L020-03J	-.00002	57.590	.02960	-.00018	.00059	.00124	.00097	.00869	L020-03J
39	L027-01T	-.00005	268.48	.21816	-.00036	.00093	.00086	-.00013	.00195	L027-01T
40	L027-06T	-.00018	83.755	.16855	-.00105	.00060	-.00003	-.00019	.00107	L027-06T
41	CCV3	.50533	62.230	.48785	2.3532	.49858	.48138	1.4673	2.6328	CCV3
42	CCB3	.00006	.06381	.00017	.00012	-.00005	.00011	.00017	.00171	CCB3
43	L027-01W	.00095	2050.2*	2.2298	-.00413	.00112	.00347	.00306	.00525	L027-01W
44	L027-02W	-.00002	1.4339	.00077	.00038	.00011	.00017	.00000	.00295	L027-02W
45	L027-04W	.00003	484.67	.46338	-.00006	.00012	.00077	-.00058	.00297	L027-04W
46	L027-06W	.00018	793.86*	1.6898	-.00174	.00006	.00274	.00071	.00309	L027-06W
47	L027-07W	.00011	.43937	.00027	.00048	-.00001	.00021	-.00029	.00029	L027-07W
48	CCV4	.51496	63.017	.48752	2.2777	.49756	.48727	1.5181	2.7874*	CCV4
49	CCB4	.00034	.24501	.00039	.00103	.00024	.00030	.00057	.00100	CCB4
50	K574-07A	.50053	51.915	.45722	.48291	.48819	.49294	.52737	.59479	K574-07A
51	K574-07T	.00529	1.9601	.01346	-.00298	.00354	.01348	.00651	.00441	K574-07T
52	K574-07J	.00005	.23211	.00028	-.00059	.00102	.00015	.00001	.00204	K574-07J
53	K574-07G	.10050	11.047	.09730	.09804	.10283	.10286	.10499	.11827	K574-07G
54	K574-07H	.09918	10.954	.09624	.09685	.10159	.10154	.10377	.11969	K574-07H

55	CCV5	.50356	62.176	.48255	2.3219	.49712	.48509	1.4835	2.7074	CCV5
56	CCB5	.00011	.07824	.00016	.00093	.00048	.00018	.00018	.00049	CCB5
57	L020-04T	-.00003	84.298	.04743	.00057	.00039	.00145	.00122	.00175	L020-04T
58	L020-05T	.00011	96.223	.08208	.00025	.00028	.00107	.00025	.00161	L020-05T
59	L028-02T	.00016	76.345	.09555	.00060	-.00006	.00164	.00049	-.00125	L028-02T
60	L028-03W	.00024	808.03*	2.2680	-.00393	.00415	.01736	.00282	.00835	L028-03W
61	L028-04T	.00011	79.092	.07500	.00049	.00061	.00043	.00063	.00193	L028-04T
62	L028-05W	.00004	1030.5*	.56692	.00120	.00088	.01672	.00194	.00006	L028-05W
63	CCV6	.50745	63.160	.48581	2.3191	.49510	.48554	1.4743	2.6967	CCV6
64	CCB6	.00014	.28291	.00031	.00099	.00014	.00010	.00035	.00007	CCB6
65	L076-01A	.51424	53.216	.56220	.48512	.50583	1.4786	.73811	18.388	L076-01A
66	L076-01W	-.00013	.67814	.08756	-.00119	.02060	1.0048	.23098	18.254	L076-01W
67	L076-01J	-.00014	.14715	.01700	-.00021	.00428	.19742	.04497	3.6140	L076-01J
68	L028-04W	.00032	778.41*	.77191	.00549	-.00040	.00597	.00729	-.00567*	L028-04W
69	L075-05	-.00029	1.5875	.14019	-.00302	.02203	.71976	.29961	4.2325	L075-05
70	L075-07	-.00024	.48215	.10250	-.00200	.02096	.83278	.33068	2.0100	L075-07
71	CCV7	.50996	61.947	.48251	2.3449	.49472	.48472	1.4730	2.6809	CCV7
72	CCB7	.00005	.07045	.00013	-.00001	.00025	.00020	.00001	.00029	CCB7
73	IPL016SB	-.00016	.08722	.00036	-.00065	.02177	.00039	.00011	.00354	IPL016SB
74	IPL016SL	.49890	53.399	.47575	.49222	.52475	.50621	.51554	.57298	IPL016SL
75	IPL016SC	.51153	52.783	.48102	.50050	.52428	.50998	.52472	.58261	IPL016SC
76	L076-04A	.50068	52.659	.56524	.48010	.50821	.93333	.76376	25.770	L076-04A
77	L076-04	-.00044	.73497	.09191	-.00364	.01892	.45562	.26519	26.028	L076-04
78	L076-04J	-.00019	.14475	.01774	-.00064	.00348	.08764	.05150	5.1221	L076-04J
79	L076-04M	.50690	53.642	.59252	.46823	.51286	.95538	.78889	26.920	L076-04M
80	L076-04S	.50595	53.306	.58074	.47128	.50913	.80776	.77834	26.815	L076-04S
81	L076-01	-.00022	.63810	.09261	-.00234	.01784	.58925	.23915	22.935	L076-01
82	CCV8	.51675	62.287	.48769	2.3392	.49131	.48519	1.4753	2.6819	CCV8
83	CCB8	.00004	.03440	.00009	.00033	.00033	.00002	-.00018	.00081	CCB8
84	IPL012WB	.00004	.03448	.00034	.00010	.00026	.00052	-.00014	.00646	IPL012WB
85	IPL012WL	.51982	52.523	.47515	.49322	.49062	.50369	.50697	.55111	IPL012WL
86	IPL012WC	.52717	53.081	.47993	.49540	.49049	.50631	.51202	.55392	IPL012WC
87	L007-03A	.53576	187.89	3.1008	.49408	.49609	.50960	.53263	.61911	L007-03A
88	L007-03	-.00013	137.91	2.6840	.00032	.00061	.01112	.01355	.05433	L007-03
89	L007-03J	.00004	27.848	.54439	.00011	.00039	.00270	.00270	.01130	L007-03J
90	L007-03M	.54478	191.85	3.1841	.48319	.50175	.51524	.52553	.61396	L007-03M
91	L007-03S	.54323	192.63	3.1989	.48352	.50002	.51621	.52456	.61453	L007-03S
92	L007-04	-.00002	100.58	1.3917	.00072	.00022	.00104	.01436	.00766	L007-04
93	L007-05	.00006	62.520	.56921	.00032	-.00006	.00010	.02557	.00323	L007-05
94	CCV9	.50717	62.828	.48902	2.3474	.49271	.48827	1.4542	2.6698	CCV9
95	CCB9	.00022	.11100	.00046	.00029	.00046	.00034	.00036	.00102	CCB9
96	L030-13	.00010	51.462	.41583	.00043	.00046	.00154	.00011	.01981	L030-13
97	L005-03	-.00017	45.101	.33234	.00022	-.00003	.00127	.00020	.00281	L005-03
98	L005-04	.00001	16.720	.21247	.00027	.00000	.00092	-.00010	.00326	L005-04
99	L005-04M	.54659	71.648	.69689	.50070	.49742	.51259	.52057	.56522	L005-04M
100	L005-04S	.54385	70.909	.69336	.49482	.49432	.50733	.51598	.55457	L005-04S
101	L005-13	.00008	106.37	.37185	.00052	.00032	.00363	.00028	.03094	L005-13
102	L005-14	-.00002	18.954	.22238	.00094	.00005	.00196	.00028	.02422	L005-14
103	ICSA2	.00033	.21071	.02164	-.00159	.00183	.00194	-.00054	.00055	ICSA2
104	ICSAB2	1.1246	82.715	.51463	.89617	.97731	.97349	.48903	1.0781	ICSAB2
105	CCV10	.51321	62.923	.49113	2.3400	.49282	.48833	1.4661	2.6687	CCV10
106	CCB10	.00010	.06950	.00019	.00031	.00043	-.00038	.00014	.00021	CCB10
107	K362-03T	.00032	237.61	.18827	.00612	-.00078	.00840	.00107	-.01563*	K362-03T
108	K362-04T	.00026	219.18	.16695	.00669	-.00073	.00966	.00120	-.01817*	K362-04T
109	K362-05T	.00027	196.06	.17754	.00421	-.00069	.00747	.00222	.02034	K362-05T
110	K362-03T	.00026	231.94	.18423	.00567	-.00094	.00746	.00097	-.01829*	K362-03T
111	K362-04T	.00017	218.08	.16690	.00605	-.00060	.00727	.00121	-.01835*	K362-04T

112	K362-05T	.00025	195.32	.17226	.00380	-.00044	.00467	.00173	-.00975*	K362-05T
113	CCV11	.50890	63.321	.49300	2.3413	.49088	.48861	1.4503	2.6577	CCV11
114	CCB11	-.00001	.11314	.00021	.00039	.00018	.00031	.00018	.00018	CCB11
115	L003-02T	.00013	230.63	.05772	.00108	.00036	.00264	.00072	-.00108	L003-02T
116	L003-03T	.00040	240.26	.12680	.00695	-.00082	.00906	.00216	-.02048*	L003-03T
117	L003-05T	-.00003	146.61	.16774	.00068	.00019	.00269	.00174	-.00194	L003-05T
118	L003-02T	.00000	225.10	.05125	.00110	.00033	.00170	.00042	-.00333	L003-02T
119	L003-03T	.00029	229.93	.11948	.00673	-.00079	.00806	.00194	-.01945*	L003-03T
120	L003-05T	-.00005	151.63	.17279	.00147	.00021	.00150	.00139	-.00275	L003-05T
121	CCV12	.51579	63.185	.49064	2.3234	.48733	.48607	1.4622	2.6583	CCV12
122	CCB12	.00000	.13729	.00020	.00048	.00027	.00025	.00030	.00031	CCB12
123	IPL017WB	-.00004	.08730	.00040	.00015	.00064	.00014	.00001	.00456	IPL017WB
124	IPL017WL	.56589	57.114	.50906	.52542	.50661	.53243	.53803	.58440	IPL017WL
125	IPL017WC	.60154*	59.523	.50698	.59791	.37326*	.52082	.54176	.66145*	IPL017WC
126	L119-02A	.53564	206.36	.54616	.48730	.47004	.50262	.50958	.56618	L119-02A
127	L119-02	-.00002	154.41	.06558	.00035	.00031	.00946	.00022	.00482	L119-02
128	L119-02J	.00005	30.418	.01279	.00013	.00032	.00203	-.00003	.00205	L119-02J
129	L119-02M	.53195	202.89	.54949	.48210	.49257	.52002	.50217	.56107	L119-02M
130	L119-02S	.55087	211.71	.57042	.50254	.51074	.54058	.52102	.58455	L119-02S
131	L119-01	.00004	153.49	.16803	.00080	.00041	.01801	.00852	.00582	L119-01
132	CCV13	.50438	62.858	.49317	2.3379	.48626	.48698	1.4403	2.6547	CCV13
133	CCB13	.00008	.11402	.00026	.00052	.00019	.00025	.00037	.00041	CCB13
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8L009 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-096
Batch: IPL016-S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

12-8-10 Start	Temp	12-8-10 End	Temp
10:00	90 °C	12:00	90 °C

Hot plate C

Standards	ID	Amount Added (ml)
LCS-1	SMIA-13-02-07	0.5
LCS-2	↓ - ↓ - 08	0.5
LCS-3	↓ - ↓ - ↓ - 09	1.0
MS		

Reagent	Lot# / ID	Amount Added (ml)
HNO_3	SWIA-04-291	10.0
HCl	↓ ↓ - 282	10.0
H_2O_2	↓ ↓ - 289	10.0
HNO3(1:1)	SMSB-02-133	10.0

Digestate Location	ICP
Extract Location	

☐ Reagent Water ID: SMSA-02-059
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☐ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101615632

Prepared By:

Standard Added By: Witnessed By:

Extract Rcvd By: Checked By:

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
10IPL016S01	IPL016SB	1	g	12/8/10 9:37	100	1	100	1	
10IPL016S02	IPL016SL	1	g	12/8/10 9:37	100	1	100	1	
10IPL016S03	IPL016SC	1	g	12/8/10 9:37	100	1	100	1	
10IPL016S04	L075-05	1.002	g	12/8/10 9:38	100	1	100	0.998	DRY&SIEVE
10IPL016S05	L075-07	1.008	g	12/8/10 9:39	100	1	100	0.992	DRY&SIEVE
10IPL016S06	L076-01	1.004	g	12/8/10 9:41	100	1	100	0.996	DRY&SIEVE ✓
10IPL016S07	L076-04	1.008	g	12/8/10 9:41	100	1	100	0.992	DRY&SIEVE ✓
10IPL016S08	L076-04M	1.008	g	12/8/10 9:42	100	1	100	0.992	DRY&SIEVE ✓
10IPL016S09	L076-04S	1.009	g	12/8/10 9:43	100	1	100	0.991	DRY&SIEVE ✓

12/8/10 MC

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 12/8/10 10:00 Prepared By: MC

☑ Digestion Ended @ 12/8/10 12:00 Checked By: TH

Comments: Date 12/8/2010

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11A092A**

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GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B	7000 – 7023
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-26-2011
EMAX Batch No.: 11A092A

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 01/11/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB231-04-01	A092-03	01/08/11	SOIL	LEAD METALS SIEVE AND OVEN DRY SOIL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Chain of Custody Record

CH.1002

11A092

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client CH2M HILL, Inc.	**Project Manager** John Ynfante		**Date** January 10, 2011 / **Chain of Custody Number** 1of2
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401	
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**
Project Name Tar Creek OU4	**Carrier/Waybill Numbe** 796640622420	**CH2M HILL Project Number:** 395950.CV.01	
Samplers: Various CH2M HILL personnel			

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cadmium Only				Comments
1	CB231-03-01	January 8, 2011	1105	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
2	CB231-03-02	January 8, 2011	1110	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
3	CB231-04-01	January 8, 2011	1300	8 oz	Glass Jar	1	ICE	Soil		x	x				Sieve lead sample
4	CB231-04-02	January 8, 2011	1305	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
5	CB231-05-01	January 9, 2011	920	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
6	CB231-05-02	January 9, 2011	925	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
7	CB231-06-01	January 9, 2011	1005	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
8	CB231-06-02	January 9, 2011	1010	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
9	CB231-07-01	January 9, 2011	1025	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
10	CB231-07-02	January 9, 2011	1030	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
11	CP091-06-01	January 9, 2011	1350	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
12	CP091-06-02	January 9, 2011	1355	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
13	CP091-07-01	January 9, 2011	1430	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
14	CP091-07-02	January 9, 2011	1435	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
15	CP091-08-01	January 10, 2011	850	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
16	CP091-08-02	January 10, 2011	915	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample

Turnaround Time
7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By RICHY L RICKS	**Date:** January 10, 2011	1800	**1. Received By:**	**Date:** 1-11-11	**Time:** 9:30AM
2. Relinquished By	**Date:**		**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:**	

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

T=2.4°C

Chain of Custody Record

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

11A092

Client	Project Manager		Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante		January 10, 2011	1of2
Address	**Telephone Number**	**Fax Number**		
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401		
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**	
Houston, TX 77079	John Ynfante	Contact John Ynfante		
Project Name	**Carrier/Waybill Numbe**	**CH2M HILL Project Number:**		
Tar Creek OU4	796640622420	395950.CV.01		
Samplers:				
Various CH2M HILL personnel				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cadmium Only				Comments
17	CP091-09-01	January 10, 2011	945	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
18	CP091-09-02	January 10, 2011	950	8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil		x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample
				8 oz	Glass Jar	1	ICE	Soil	x	x	x				Sieve lead sample

Turnaround Time
7 *Days* **UNLESS BOLDED, 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By RICHY L RICKS	*Date:* January 10, 2011	1800	*1. Received By:*	*Date:* 1-11-11	*Time:* 9:30A
2. Relinquished By	*Date:*		*2. Received By:*	*Date:*	
3. Relinquished By	*Date:*	*Time:*	*3. Received By:*	*Date:*	

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

1 of 2

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11A092
☐ EMAX Courier		Receipient I PATEL
☐ Client Delivery		Date 1-11-11
☑ Third Party Fedex	7966 4062 2420	Time 9:30A

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☑ Plastic Bag
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 2.4 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: ***A - S/N 101541371*** ***B - S/N 101541382***

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 1-11-11

SRF [signature] Date 01/11/11

PM LD for YC Date 1/11/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	*Temperature is out of range*		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

CHANGE ORDER FORM

SDG	11A092A	TAT	5 DAYS RUSH	Project Code	CH_1002
Requested by	Linh for Ye	Date Requested	01/21/11	Due Date	01/24/11

Analytical Requirements				
AXO	EMAX Control Number	Sample Prep. Methods	Analytical Methods	Special Instructions
A	A092-03	3050	6010B	LEAD BY ICP. OVEN DRIED AND SIEVED CB231-04-01

Linh Pham

From: John.Ynfante@CH2M.com
Sent: Friday, January 21, 2011 11:45 AM
To: Ye Myint
Cc: Linh Pham
Subject: RE: Missing sample data

OK then yes please proceed with the lead analysis. 7-day TAT should be fine. Thanks

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Friday, January 21, 2011 1:43 PM
To: Ynfante, John/HOU
Cc: Linh Pham
Subject: RE: Missing sample data

No record of receiving the XRF cup for this SDG.

Ye

310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Friday, January 21, 2011 11:00 AM
To: Ye Myint
Cc: Linh Pham
Subject: RE: Missing sample data

those samples only had the jar and no XRF cup right? If the lead wasn't selected on the chain that must have been a mistake because for those samples that come in without the XRF cup we definitely need all 3 metals

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Friday, January 21, 2011 12:57 PM
To: Ynfante, John/HOU
Cc: Linh Pham
Subject: FW: Missing sample data

John,

The sample was not logged in for lead since it was not "x' marked in the COC. We still have the sample to perform the test for lead. We will be reporting this additional result for the sample under 11A092A. Thanks.

Ye

310-618-8889 x121

-----Original Message-----
From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Friday, January 21, 2011 12:13 AM
To: Linh Pham
Subject: Missing sample data

Linh,

The results you sent me for SDG #11A092 were missing lead for sample CB231-04-01. Can you please resend with that result included?

From: Origin ID: SMFA (916) 747-2986
Richy Ricks
CH2M HILL
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Ship Date: 10JAN11
ActWgt: 39.5 LB
CAD: 6300065/WBUS0200
Dims: 24 X 13 X 13 IN

Delivery Address Bar Code

Ref # 395950.cv.01/AAA00006605
Invoice #
PO #
Dept #

11 A092
1-11-11
9:30A

SHIP TO: (310) 618-8889 BILL SENDER
Sample Recieving
E MAX Laboratories, Inc.
1835 W. 205th Street

Torrance, CA 90501

TRK# 0201 7966 4062 2420

TUE - 11 JAN A1
PRIORITY OVERNIGHT

90501
CA-US
LAX

90 AVXA

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page and place it in a shipping pouch. The second page is for your records, and contains additional information useful for tracking your shipment.**
3. **After printing, remove your shipment so that the barcode p**

PRIORITY OVERNIGHT
TUE
Deliver By: 11JAN11
Emp# 731232 00:44 11JAN11
TRK# 7966 4062 2420 FORM 0201
LAX
90501 - CA-US
XH AVXA

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	Description
ND	For wet chemistry methods, indicates that the analyte is non detect at the RL. For metals and organics (Volatiles, Semi-volatiles, Pesticides, PCBs, Explosives), indicates that the analyte is non detect at the MDL.
J	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
B	Indicates that the analyte is found in the associated method blank at or above the RL as well as in the sample at above QC level.
E	Indicates that the result is above the maximum calibration range.
N	Indicates presumptive evidence of a compound.
*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

Quality Control	
MBLK	Method Blank
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
Others	
CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method(s), protocol(s), or project(s) specifically requires otherwise.

REPORTING CONVENTIONS

Decimal places, trailing zeroes or the lack thereof appearing on the data should not be interpreted as indicative of the precision of the analytical procedure, but rather as a result of reporting format limitations.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METAL

SDG#: 11A092A

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A092A

METHOD 3050B/6010B
LEAD BY TRACE ICP

One (1) soil sample was received on 01/11/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA036SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for A092-03M/S were within project QC limits.
Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

Sample was oven-dried and passed through sieve # 60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A092A
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA036SB	1	NA	01/24/1112:41	01/21/1111:40	ID8A019039	ID8A019037	IPA036S	Method Blank
LCS1S	IPA036SL	1	NA	01/24/1112:44	01/21/1111:40	ID8A019040	ID8A019037	IPA036S	Lab Control Sample (LCS)
LCD1S	IPA036SC	1	NA	01/24/1112:46	01/21/1111:40	ID8A019041	ID8A019037	IPA036S	LCS Duplicate
CB231-04-01	A092-03	0.943	NA	01/24/1112:52	01/21/1111:40	ID8A019043	ID8A019037	IPA036S	Field Sample
CB231-04-01DL	A092-03J	4.71	NA	01/24/1112:54	01/21/1111:40	ID8A019044	ID8A019037	IPA036S	Diluted Sample
CB231-04-01MS	A092-03M	0.943	NA	01/24/1112:57	01/21/1111:40	ID8A019045	ID8A019037	IPA036S	Matrix Spike Sample (MS)
CB231-04-01MSD	A092-03S	0.940	NA	01/24/1113:00	01/21/1111:40	ID8A019046	ID8A019037	IPA036S	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/08/11 13:00
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092A	Date Extracted:	01/21/11 11:40
Sample ID:	CB231-04-01	Date Analyzed:	01/24/11 12:52
Lab Samp ID:	A092-03	Dilution Factor:	0.943
Lab File ID:	ID8A019043	Matrix :	SOIL
Ext Btch ID:	IPA036S	% Moisture :	NA
Calib. Ref.:	ID8A019037	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	73.5	0.943	0.189

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/21/11
SDG NO.	: 11A092A	Date Extracted:	01/21/11 11:40
Sample ID:	MBLK1S	Date Analyzed:	01/24/11 12:41
Lab Samp ID:	IPA036SB	Dilution Factor:	1
Lab File ID:	ID8A019039	Matrix :	SOIL
Ext Btch ID:	IPA036S	% Moisture :	NA
Calib. Ref.:	ID8A019037	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A092A
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA036SB	IPA036SL	IPA036SC		
LAB FILE ID:	ID8A019039	IDBA019040	ID8A019041		
DATIME EXTRCTD:	01/21/1111:40	01/21/1111:40	01/21/1111:40	DATE COLLECTED:	NA
DATIME ANALYZD:	01/24/1112:41	01/24/1112:44	01/24/1112:46	DATE RECEIVED:	01/21/11
PREP. BATCH:	IPA036S	IPA036S	IPA036S		
CALIB. REF:	ID8A019037	ID8A019037	ID8A019037		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	49.5	99	50	50.2	100	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A092A
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	0.943	0.943	0.940		
SAMPLE ID:	CB231-04-01				
CONTROL NO.:	A092-03	A092-03M	A092-03S		
LAB FILE ID:	ID8A019043	ID8A019045	ID8A019046		
DATIME EXTRCTD:	01/21/1111:40	01/21/1111:40	01/21/1111:40	DATE COLLECTED:	01/08/11 13:00
DATIME ANALYZD:	01/24/1112:52	01/24/1112:57	01/24/1113:00	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA036S	IPA036S	IPA036S		
CALIB. REF:	ID8A019037	ID8A019037	ID8A019037		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	73.5	47.2	117	92	47	117	93	1	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A092A
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.943	4.71		
SAMPLE ID:	CB231-04-01	CB231-04-01DL		
EMAX SAMP ID:	A092-03	A092-03J		
LAB FILE ID:	IDBA019043	ID8A019044		
DATE EXTRACTED:	01/21/1111:40	01/21/1111:40	DATE COLLECTED:	01/08/11 13:00
DATE ANALYZED:	01/24/1112:52	01/24/1112:54	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA036S	IPA036S		
CALIB. REF:	ID8A019037	ID8A019037		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	73.5	73.3	0	10

7006A

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/24/11 10:53

End Date: 1/24/11 13:30

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

QCs OK

Note: As is an interfering element for Sb

Book #: AD8-017

Instrument No.: D8

Analytical Batch: 1D8A019

Analytical Sequence: S-11A6010 (V24)

Method File: 11A6010 (V24)

Database: Emax 13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-2102	S30	SM1B14-0203
S1	NA	S31	0204
S2		ICV	2701
S3		CCV	2103
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B14-1201
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B12-1004 05		
S21	SM1B14-0101		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	SM1B14-2801		
S27	2802		
S28	0201		
S29	0202		

Analyzed By: TH

Date: 1/24/11

SEQUENCE FILE : ID8A019

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A019001	Blank	10:53	01/24/11	1.000
ID8A019002	S20	10:56	01/24/11	1.000
ID8A019003	S21	10:59	01/24/11	1.000
ID8A019004	S22	11:02	01/24/11	1.000
ID8A019005	S23	11:05	01/24/11	1.000
ID8A019006	S24	11:08	01/24/11	1.000
ID8A019007	S25	11:11	01/24/11	1.000
ID8A019008	S26	11:14	01/24/11	1.000
ID8A019009	S27	11:17	01/24/11	1.000
ID8A019010	S28	11:20	01/24/11	1.000
ID8A019011	S29	11:23	01/24/11	1.000
ID8A019012	S30	11:25	01/24/11	1.000
ID8A019013	S31	11:28	01/24/11	1.000
ID8A019014	ICV	11:31	01/24/11	1.000
ID8A019015	ICB	11:34	01/24/11	1.000
ID8A019016	MRLA2401	11:36	01/24/11	1.000
ID8A019017	MRLA2402	11:39	01/24/11	1.000
ID8A019018	ICSA1	11:42	01/24/11	1.000
ID8A019019	ICSAB1	11:45	01/24/11	1.000
ID8A019020	CCV1	11:48	01/24/11	1.000
ID8A019021	CCB1	11:51	01/24/11	1.000
ID8A019022	IPA037WB	11:54	01/24/11	1.000
ID8A019023	IPA037WL	11:57	01/24/11	1.000
ID8A019024	IPA037WC	11:59	01/24/11	1.000
ID8A019025	A126-04A	12:02	01/24/11	1.000
ID8A019026	A126-04R	12:05	01/24/11	1.000
ID8A019027	A126-04J	12:07	01/24/11	5.000
ID8A019028	A126-04M	12:10	01/24/11	1.000
ID8A019029	A126-04S	12:13	01/24/11	1.000
ID8A019030	Blank	12:15	01/24/11	1.000
ID8A019031	CCV2	12:18	01/24/11	1.000
ID8A019032	CCB2	12:21	01/24/11	1.000
ID8A019033	A126-01R	12:24	01/24/11	1.000
ID8A019034	A126-02R	12:27	01/24/11	1.000
ID8A019035	A126-03R	12:29	01/24/11	1.000
ID8A019036	Blank	12:32	01/24/11	1.000
ID8A019037	CCV3	12:35	01/24/11	1.000
ID8A019038	CCB3	12:38	01/24/11	1.000
ID8A019039	IPA036S8	12:41	01/24/11	1.000
ID8A019040	IPA036SL	12:44	01/24/11	1.000
ID8A019041	IPA0365C	12:46	01/24/11	1.000
ID8A019042	A092-03A	12:49	01/24/11	1.000
ID8A019043	A092-03	12:52	01/24/11	1.000
ID8A019044	A092-03J	12:54	01/24/11	5.000
ID8A019045	A092-03M	12:57	01/24/11	1.000
ID8A019046	A092-03S	13:00	01/24/11	1.000
ID8A019047	Blank	13:02	01/24/11	1.000
ID8A019048	CCV4	13:05	01/24/11	1.000
ID8A019049	CCB4	13:08	01/24/11	1.000
ID8A019050	A049-04A	13:11	01/24/11	10.00
ID8A019051	A049-04T	13:13	01/24/11	10.00
ID8A019052	A049-04J	13:16	01/24/11	50.00
ID8A019053	A146-03	13:19	01/24/11	1.000
ID8A019054	A146-05	13:22	01/24/11	1.000

ID8A019055	Blank	13:24	01/24/11	1.000
ID8A019056	CCV5	13:27	01/24/11	1.000
ID8A019057	CCB5	13:30	01/24/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A019 DATE : 01/24/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	102	97	103	102	99	96	96	99	94	94	102	101	95	107	94	92	98	96	95	101	101	105	97	90	97	98	97	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	95	----	----	----	----	----	----	94	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	95	104	106	111	98	97	92	91	91	96	111	93	93	117	95	90	104	96	103	105	111	112	103	81	100	97	97	107
CCV1	104	100	105	103	100	98	98	99	95	96	105	99	97	108	95	93	100	98	97	104	100	106	99	93	99	99	100	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	104	99	104	103	99	97	95	97	93	97	105	98	97	109	93	91	101	98	97	103	99	106	98	92	100	98	99	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-02R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-03R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	99	103	103	98	97	95	97	93	97	105	98	98	109	92	91	101	98	97	103	99	106	98	92	100	98	99	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	100	103	102	98	96	94	97	92	97	104	98	98	107	92	90	102	98	96	103	98	105	98	92	102	98	97	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	105	100	103	103	98	96	94	97	92	97	105	98	98	108	92	90	102	98	96	103	98	105	98	92	102	98	97	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A   UNIT : UG/L   SUMMARY of CALIBRATION BLANKS : ID8A019 (SOIL)   DATE : 01/24/11   INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	39.9	1.63	-.200	.770	.620	3.88	.170	27.3	.880	.060	.670	4.52	.240	.350	30.1	.920	.930	.500	90.3	-.100	.050	54.1	.250	.570	.130	.680	.440	-.200
MRLA2401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.69	-2.32	1.26	-.030	-4.33	-2.73	----	1.39	-.710	1.45	----	-4.30	5.44	----	.680	-1.72	-1.01	57.3	.540	-.060	69.1	20.6	.360	3.39	2.37	1.64	1.52
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	51.2	1.53	-.190	.520	.410	3.51	.220	64.0	.360	.060	.480	17.2	.170	.690	35.7	.490	.840	.220	101	-.200	-.010	64.9	.160	.360	-.060	.310	.360	1.20
IPA037WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	22.2	1.77	1.65	.250	.330	3.69	.170	8.66	.280	.130	.610	2.70	.020	.430	10.1	.570	.980	.210	119	-.170	.060	86.3	.120	.300	.130	.250	.310	-.260
A126-01R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-02R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-03R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	9.57	1.47	-.430	.280	.280	3.54	.020	7.96	.060	-.050	.340	-1.46	-.300	.660	22.0	.760	.640	-.030	93.6	-.310	-.130	85.9	.100	.030	-.210	.150	.150	-.450
IPA036SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	11.4	1.50	-.700	.220	.310	3.37	-.020	7.37	.130	.100	.480	1.44	.150	.640	20.0	.400	.620	.150	98.8	-.120	-.160	51.8	.050	-.090	.160	.180	.110	-.110
A049-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	12.0	1.05	.370	.270	.300	3.31	.050	4.59	.140	-.030	.560	.790	-.080	.710	13.6	.460	.720	.070	95.5	-1.04	-.170	50.2	.110	.370	.110	.140	.120	-.280

QC limit of each parameter are listed in a table attached next to all the ICP check forms .
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A019001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8A019002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8A019003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8A019004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8A019005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8A019006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8A019007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8A019008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8A019009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8A019010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8A019011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8A019012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8A019013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8A019014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A019015			1	☒	LOD	None
16	3	2	3	1	QC	MRLA2401		ID8A019016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2402		ID8A019017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A019018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A019019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A019020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A019021			1	☒	LOD	None
22	9	2	9	1	QC	IPA037WB		ID8A019022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPA037WL		ID8A019023			1	☒	LCS	None
24	11	2	11	1	QC	IPA037WC		ID8A019024			1	☒	LCS	None
25	12	2	12	1	Unk	A126-04A		ID8A019025			1	☒	unk	---
26	13	2	1	2	Unk	A126-04R		ID8A019026			1	☒	unk	---
27	14	2	2	2	Unk	A126-04J		ID8A019027			1	☒	unk	---
28	15	2	3	2	Unk	A126-04M		ID8A019028			1	☒	unk	---
29	16	2	4	2	Unk	A126-04S		ID8A019029			1	☒	unk	---
30	17	2	5	2	Blank	Blank		ID8A019030			1	☐		---
31	18	2	6	2	QC	CCV2		ID8A019031			1	☒	CCV	None
32	19	2	7	2	QC	CCB2		ID8A019032			1	☒	LOD	None
33	20	2	8	2	Unk	A126-01R		ID8A019033			1	☒	unk	---
34	21	2	9	2	Unk	A126-02R		ID8A019034			1	☒	unk	---
35	22	2	10	2	Unk	A126-03R		ID8A019035			1	☒	unk	---
36	23	2	11	2	Blank	Blank		ID8A019036			1	☐		---
37	24	2	12	2	QC	CCV3		ID8A019037			1	☒	CCV	None
38	25	2	1	3	QC	CCB3		ID8A019038			1	☒	LOD	None
39	26	2	2	3	QC	IPA036SB		ID8A019039			1	☒	1/2LOQ	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
40	27	2	3	3	QC	IPA036SL		ID8A019040			1	☒	LCS	None
41	28	2	4	3	QC	IPA036SC		ID8A019041			1	☒	LCS	None
42	29	2	5	3	Unk	A092-03A		ID8A019042			1	☒	unk	---
43	30	2	6	3	Unk	A092-03		ID8A019043			1	☒	unk	---
44	31	2	7	3	Unk	A092-03J		ID8A019044			1	☒	unk	---
45	32	2	8	3	Unk	A092-03M		ID8A019045			1	☒	unk	---
46	33	2	9	3	Unk	A092-03S		ID8A019046			1	☒	unk	---
47	34	2	10	3	Blank	Blank		ID8A019047			1	☐		---
48	35	2	11	3	QC	CCV4		ID8A019048			1	☒	CCV	None
49	36	2	12	3	QC	CCB4		ID8A019049			1	☒	3XIDL	None
50	37	2	1	4	Unk	A049-04A	10X	ID8A019050			1	☒	unk	---
51	38	2	2	4	Unk	A049-04T	10X	ID8A019051			1	☒	unk	---
52	39	2	3	4	Unk	A049-04J	50X	ID8A019052			1	☒	unk	---
53	40	2	4	4	Unk	A146-03		ID8A019053			1	☒	unk	---
54	41	2	5	4	Unk	A146-05		ID8A019054			1	☒	unk	---
55	42	2	6	4	Blank	Blank		ID8A019055			1	☐		---
56	43	2	7	4	QC	CCV5		ID8A019056			1	☒	CCV	None
57	44	2	8	4	QC	CCB5		ID8A019057			1	☒	3XIDL	None
58	45	2	9	4	QC	IPA033WB		ID8A019058			1	☒	1/2LOQ	None
59	46	2	10	4	QC	IPA033WL		ID8A019059			1	☒	LCS	None
60	47	2	11	4	QC	IPA033WC		ID8A019060			1	☒	LCS	None
61	48	2	12	4	Unk	MDLV-01		ID8A019061			1	☒	unk	---
62	49	2	1	5	Unk	MDLV-02		ID8A019062			1	☒	unk	---
63	50	2	2	5	Blank	Blank		ID8A019063			1	☐		---
64	51	2	3	5	QC	CCV6		ID8A019064			1	☒	CCV	None
65	52	2	4	5	QC	CCB6		ID8A019065			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00173	.00003	-.00001	.00027	.00007	.00038	-.00004	.00035	.00002	-.00091	Blank
2	S20					.95667		.13246				S20
3	S21					9.1103		1.1867				S21
4	S22				.50634						.16433	S22
5	S23				4.7727						1.6668	S23
6	S24						.10370					S24
7	S25						1.0745					S25
8	S26	.30991							.85303	.14356		S26
9	S27	11.011							7.7930	1.3653		S27
10	S28		.00575									S28
11	S29		.05761									S29
12	S30			.00142								S30
13	S31			.00567								S31
14	ICV	102.19	1.4490	1.0282	2.0391	1.4812	2.3927	1.9218	74.174	2.3491	.94097	ICV
15	ICB	.03994*	.00163	-.00020	.00077	.00062*	.00388	.00017	.02733	.00088	.00006	ICB
16	MRLA2401	.21926	.10033	.01010	.01076	.00983	.00969	.01003	1.0207	.01022	.00942	MRLA2401
17	MRLA2402	.21175	.05127	.01008	.00548	.00411	.09371	.00504	.50655	.00995	.00933	MRLA2402
18	ICSA1	379.67	.00769	-.00232	.00126	-.00003	-.00433	-.00273	467.89	.00139	-.00071	ICSA1
19	ICSAB1	380.65	1.0361	1.0594	.55288	.48762	.48460	.91603	455.41	.45569	.48139	ICSAB1
20	CCV1	104.17	1.4955	1.0477	2.0634	1.4953	2.4380	1.9556	73.973	2.3803	.96123	CCV1
21	CCB1	.05122*	.00153	-.00019	.00052	.00041	.00351	.00022	.06402	.00036	.00006	CCB1
22	IPA037WB	.02085	.00000	.00028	.00033	.00004	.00227	-.00005	.03183	-.00015	-.00008	IPA037WB
23	IPA037WL	5.5657	2.6288	.53859	.53311	.51378	.50700	.50560	49.769	.49664	.50868	IPA037WL
24	IPA037WC	5.5346	2.6377	.53961	.53266	.51347	.50481	.50613	49.825	.49247	.50932	IPA037WC
25	A126-04A	6.0041	2.4659	20.277	.63499	.53196	.78880	.51448	70.575	.51031	.53536	A126-04A
26	A126-04R	.06073	-.07323	19.911	.08349	.00017	.29850	.00001	23.508	.00093	.00130	A126-04R
27	A126-04J	.01930	-.01462	4.0132	.01661	-.00002	.05867	-.00015	4.7943	.00013	.00021	A126-04J
28	A126-04M	5.7009	2.5415	21.826	.61887	.51045	.82215	.49047	73.525	.49041	.51081	A126-04M
29	A126-04S	5.7445	2.5639	21.927	.62086	.51197	.83011	.49095	73.476	.49404	.51253	A126-04S
30	Blank	.00304	.00171	.00316	.00060	.00012	.00179	-.00003	.14382	-.00005	.00002	Blank
31	CCV2	103.76	1.4910	1.0360	2.0608	1.4833	2.4184	1.9044	73.071	2.3323	.96725	CCV2
32	CCB2	.02220	.00177	.00165	.00025	.00033	.00369	.00017	.00866	.00028	.00013	CCB2
33	A126-01R	.04357	-.00192	.72412	.19900	.00008	.19825	.00007	23.603	.00104	.00143	A126-01R
34	A126-02R	5.9114	-.02513	6.6362	.08328	.00009	.21844	-.00012	9.2146	.00400	.00174	A126-02R
35	A126-03R	.39240	-.01730	4.7827	.29692	-.00001	.32919	-.00014	29.477	.00141	.00211	A126-03R
36	Blank	.00347	.00031	.00111	.00031	-.00002	.00095	-.00009	.09803	-.00020	-.00015	Blank
37	CCV3	104.08	1.4916	1.0327	2.0633	1.4744	2.4173	1.9001	72.736	2.3271	.96638	CCV3
38	CCB3	.00957	.00147	-.00043	.00028	.00028	.00354	.00002	.00796	.00006	-.00005	CCB3
39	IPA036SB	.01189	.00123	-.00064	.00359	.00011	.00087	-.00020	.10946	.00023	-.00013	IPA036SB
40	IPA036SL	5.0324	2.4505	.50186	.51366	.48726	.45080	.47731	48.892	.48630	.50771	IPA036SL
41	IPA036SC	5.0902	2.4719	.50344	.52097	.49462	.45714	.48147	49.696	.49474	.51360	IPA036SC
42	A092-03A	69.286	.01138	.05883	.91383	.00630	.01133	.16927	30.765	.11673	.04938	A092-03A
43	A092-03	70.356	.01022	.05906	.93375	.00627	.01103	.17087	31.374	.11894	.05011	A092-03
44	A092-03J	14.364	.00130	.01182	.18672	.00122	.00279	.03518	6.3344	.02360	.00959	A092-03J
45	A092-03M	139.65	2.2283	.56500	1.5601	.50280	.46636	.62801	79.969	.64900	.56692	A092-03M
46	A092-03S	135.57	2.2036	.56413	1.5409	.50051	.45842	.62121	80.349	.64092	.56301	A092-03S
47	Blank	.04016	.00182	.00026	.00071	.00013	.00116	.00009	.11904	.00000	.00001	Blank
48	CCV4	103.98	1.4982	1.0296	2.0469	1.4675	2.3996	1.8892	72.837	2.3043	.96567	CCV4
49	CCB4	.01143	.00150	-.00070	.00022	.00031	.00337	-.00002	.00737	.00013	.00010	CCB4
50	A049-04A	5.9148	2.5595	.57420	.55576	.52847	.53808	.52313	50.381	.51810	.54118	A049-04A
51	A049-04T	.05994	.00180	-.00101	.00103	.00019	.03953	.00000	1.8923	.00189	.00196	A049-04T
52	A049-04J	.01458	.00045	-.00055	.00071	.00000	.00821	-.00006	.03475	.00019	.00029	A049-04J
53	A146-03	78.713	.00756	.05509	1.0322	.00682	.01338	.09220	38.634	.12560	.07720	A146-03
54	A146-05	68.007	.00625	.06332	1.1432	.00564	.01058	.02667	22.964	.14941	.07992	A146-05

55	Blank	.02355	-.00073	.00005	.00060	.00000	.00013	-.00008	.10484	-.00010	-.00005	Blank
56	CCV5	104.61	1.5006	1.0280	2.0506	1.4628	2.4026	1.8851	72.383	2.3101	.96711	CCV5
57	CCB5	.01202	.00105	.00037	.00027	.00030	.00331	.00005	.00459	.00014	-.00003	CCB5
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ce	Cr	Co	LSID

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TOIT

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00173	.00002	.00003	.00002	.00000	.00003	-.00003	-.00056	-.00012	.00001	Blank
2	S20			.20284			.11586					S20
3	S21			1.9888			1.1215					S21
4	S22	.39386	.05802									S22
5	S23	3.6828	2.1335									S23
6	S24							.79755				S24
7	S25							8.0070				S25
8	S26								.83333	.31882		S26
9	S27								7.9091	3.2273		S27
10	S28					.10250						S28
11	S29					.41990						S29
12	S30				.02908						.00162	S30
13	S31				.14319						.00638	S31
14	ICV	2.5573	25.142	2.3865	.53330	56.171	2.2955	2.4534	2.3938	57.072	1.0124	ICV
15	ICB	.00067	.00452	.00024	.00035	.03010	.00092	.00093	.00050	.09027	-.00010	ICB
16	MRLA2401	.01069	.21221	.00980	.01000	.93723	.00969	.01026	.00970	.94458	.00915	MRLA2401
17	MRLA2402	.01081	.10569	.00313	.09806	.19166	.00492	.01018	.00992	.91792	.01025	MRLA2402
18	ICSA1	.00145	186.84	-.00430	.00544	187.50	.00068	-.00172	-.00101	.05726	.00054	ICSA1
19	ICSAB1	.55355	186.28	.93421	1.1678	189.01	.45227	1.0356	.96310	77.607	1.0487	ICSAB1
20	CCV1	2.6271	24.806	2.4195	.54108	56.797	2.3139	2.5023	2.4444	58.285	1.0417	CCV1
21	CCB1	.00048	.01719	.00017	.00069	.03572	.00049	.00084	.00022	.10112*	-.00020	CCB1
22	IPA037WB	.00040	.01232	-.00019	.00004	.01564	.00008	.00033	-.00021	.03675	-.00003	IPA037WB
23	IPA037WL	.54989	5.4372	.51462	.00084*	47.828	.48584	.53405	.47366	48.962	.53385	IPA037WL
24	IPA037WC	.54695	5.4058	.51367	.00068*	47.922	.48528	.53573	.47395	49.161	.53496	IPA037WC
25	A126-04A	.58183	8.9371	.53207	.00203	58.149	3.9709	.53870	.54058	50.076	.56372	A126-04A
26	A126-04R	.00208	3.5817	.00066	.00103	12.280	3.6177	.01959	.00273	.99058	.00001	A126-04R
27	A126-04J	.00048	.72879	-.00015	.00038	2.5015	.74453	.00392	.00048	.23769	-.00045	A126-04J
28	A126-04M	.55704	9.0297	.50633	.00173	60.322	4.2517	.55770	.47376	51.589	.53310	A126-04M
29	A126-04S	.56493	9.0376	.50812	.00141	60.371	4.2551	.56171	.47579	51.819	.53771	A126-04S
30	Blank	.00019	-.00063	.00002	.00043	.01370	.00083	.00034	-.00016	.14068	-.00032	Blank
31	CCV2	2.6330	24.484	2.4324	.54351	55.851	2.2844	2.5369	2.4588	58.232	1.0334	CCV2
32	CCB2	.00061	.00270	.00002	.00043	.01010	.00057	.00098	.00021	.11852*	-.00017	CCB2
33	A126-01R	.00121	3.1624	.00164	.00188	15.887	4.6706	.00260	.00099	1.3426	-.00076	A126-01R
34	A126-02R	.00497	3.9499	.00212	.00415	6.9480	1.1759	.00953	.00298	1.9181	.00051	A126-02R
35	A126-03R	.00220	4.3383	.00125	.00160	19.724	7.4905	.01710	.00221	1.7043	-.00096	A126-03R
36	Blank	.00003	-.00317	.00007	.00075	.01384	.00139	.00020	-.00017	.06949	-.00161	Blank
37	CCV3	2.6323	24.489	2.4375	.54325	55.478	2.2676	2.5329	2.4565	58.113	1.0294	CCV3
38	CCB3	.00034	-.00146	-.00030	.00066	.02199	.00076	.00064	-.00003	.09362	-.00031	CCB3
39	IPA036SB	.00011	.01157	-.00053	-.00022	.01796	.00118	.00048	-.00032	.07304	-.00028	IPA036SB
40	IPA036SL	.52733	5.2237	.49544	.00047*	46.305	.46800	.54203	.47013	48.272	.49096	IPA036SL
41	IPA036SC	.53299	5.3041	.50199	.00055*	47.133	.47443	.54902	.47531	48.964	.49298	IPA036SC
42	A092-03A	.26778	108.84	.75974	.03276	9.5879	2.9800	.00525	.08402	6.0143	.00714	A092-03A
43	A092-03	.27157	111.18	.77915	.03356	9.7827	3.0418	.00524	.08602	6.0636	.00700	A092-03
44	A092-03J	.05321	22.696	.15556	.00693	1.9689	.61682	.00080	.01618	1.1774	.00127	A092-03J
45	A092-03M	.82869	123.11	1.2405	.08595	60.219	3.4378	.54856	.57896	60.513	.50446	A092-03M
46	A092-03S	.82540	123.41	1.2474	.08101	59.895	3.4410	.54568	.57658	59.594	.49561	A092-03S
47	Blank	.00026	.03516	-.00024	.00056	.01808	.00103	.00037	.00010	.10387	-.00098	Blank
48	CCV4	2.6099	24.480	2.4433	.53694	55.475	2.2575	2.5439	2.4585	57.661	1.0296	CCV4
49	CCB4	.00048	.00144	.00015	.00064	.02004	.00040	.00062*	.00015	.09880	-.00012	CCB4
50	A049-04A	.57549	6.2726	.54312	.00717	51.106	.52250	.52013	.55244	50.849	.57418	A049-04A
51	A049-04T	.00140	.59308	.00013	.00678	4.9936	.01690	.00085	.00687	1.8049	.00367	A049-04T
52	A049-04J	.00043	.11870	-.00027	.00120	1.0161	.00328	.00037	.00134	.38628	-.00032	A049-04J
53	A146-03	.12398	109.05	.48695	.03597	6.3773	5.4955	.00418	.08256	4.9178	.00698	A146-03
54	A146-05	.08054	119.13	.35147	.03148	5.3788	4.3141	.00562	.06386	4.5226	.00495	A146-05

55	Blank	-.00002	.04170	.00000	.00034	.00603	.00140	.00006	-.00007	.02970	-.00043	Blank
56	CCV5	2.6154	24.570	2.4470	.53782	55.047	2.2464*	2.5486	2.4584	57.682	1.0309	CCV5
57	CCB5	.00056	.00079	-.00008	.00071	.01363	.00046	.00072*	.00007	.09553	-.00104	CCB5
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00011	.00099	.00006	-.00002	.00011	.00000	-.00010	.00096	Blank
2	S20									S20
3	S21									S21
4	S22							.15417		S22
5	S23							1.4794		S23
6	S24		1.0748							S24
7	S25		6.2213							S25
8	S26									S26
9	S27									S27
10	S28				.00654					S28
11	S29				.06159					S29
12	S30	.04610		.13972		.02462	.01638		.56040	S30
13	S31	.22445		.68843		.12033	.08169		5.4154	S31
14	ICV	.50453	62.764	.48555	2.2599	.48718	.48837	1.4596	2.6273	ICV
15	ICB	.00005	.05411	.00025	.00057	.00013	.00068	.00044	-.00020	ICB
16	MRLA2401	.01015	1.0385	.01015	.01098	.00000	.00990	.01021	.02262	MRLA2401
17	MRLA2402	.01012	.50647	.01025	.01110	.00953	.01028	.01046	.00925	MRLA2402
18	ICSA1	-.00006	.06906	.02061	.00036	.00339	.00237	.00164	.00152	ICSA1
19	ICSAB1	1.1096	83.751	.51536	.81273	.99722	.96962	.48319	1.0749	ICSAB1
20	CCV1	.49990	63.733	.49483	2.3301	.49570	.49375	1.5066	2.6740	CCV1
21	CCB1	-.00001	.06494	.00016	.00036	-.00006	.00031	.00036	.00120	CCB1
22	IPA037WB	-.00008	.04002	.00013	-.00017	-.00019	.00048	-.00005	.00377	IPA037WB
23	IPA037WL	.52712	54.061	.50114	.49637	.51997	.51818	.51687	.55723	IPA037WL
24	IPA037WC	.52464	54.203	.50146	.49766	.52250	.51950	.51205	.55383	IPA037WC
25	A126-04A	.51106	152.54	.61604	.49048	.50372	.49735	.53676	.58762	A126-04A
26	A126-04R	-.00019	102.95	.14717	-.00063	.00081	.00218	.00222	.00825	A126-04R
27	A126-04J	-.00018	20.796	.02971	-.00030	.00012	.00049	.00049	.00031	A126-04J
28	A126-04M	.53547	163.17	.65396	.46611	.51990	.51139	.51394	.56113	A126-04M
29	A126-04S	.54022	163.76	.65602	.46651	.52199	.51423	.51893	.55959	A126-04S
30	Blank	-.00005	.13414	.00020	.00021	.00031	.00030	-.00001	.01005	Blank
31	CCV2	.49572	63.835	.49248	2.2938	.50185	.49067	1.4824	2.6608	CCV2
32	CCB2	.00006	.08632	.00012	.00030	.00013	.00025	.00031	-.00026	CCB2
33	A126-01R	-.00012	86.288	.18481	-.00139	.00065	.00128	.00068	.00271	A126-01R
34	A126-02R	-.00024	92.482	.07525	-.00100	.00081	.20636	.01633	.01283	A126-02R
35	A126-03R	-.00012	128.73	.21906	-.00192	.00036	.01711	.00248	.00386	A126-03R
36	Blank	-.00002	.11218	.00008	-.00031	-.00022	.00025	-.00002	.00501	Blank
37	CCV3	.49513	63.630	.49203	2.2933	.50150	.49043	1.4782	2.6571	CCV3
38	CCB3	-.00013	.08589	.00010	.00003	-.00021	.00015	.00015	-.00045	CCB3
39	IPA036SB	-.00030	.07918	.00019	-.00127	.03302	.00000	.00017	.00606	IPA036SB
40	IPA036SL	.49344	52.931	.48301	.45391	.54125	.49761	.50473	.55439	IPA036SL
41	IPA036SC	.49848	53.690	.48757	.45724	.54988	.50346	.51148	.56270	IPA036SC
42	A092-03A	-.00015	.29439	.06348	-.00139	.03930	.99894	.20178	36.767*	A092-03A
43	A092-03	-.00034	.25382	.06460	-.00164	.04077	1.0246	.20475	37.535*	A092-03
44	A092-03J	-.00016	.05667	.01279	-.00023	.00780	.20291	.04057	7.6035	A092-03J
45	A092-03M	.50742	55.130	.57983	.42814	.55504	1.9465	.75724	37.427*	A092-03M
46	A092-03S	.50299	54.762	.57101	.42503	.55338	1.8793	.74726	37.408*	A092-03S
47	Blank	.00007	.05117	.00021	.00009	-.00001	.00104	.00023	.01453	Blank
48	CCV4	.49030	63.114	.48782	2.2945	.50767	.48950	1.4606	2.6636	CCV4
49	CCB4	-.00016	.05184	.00005	-.00009	.00016	.00018	.00011	-.00011	CCB4
50	A049-04A	.51128	130.30	.49714	.50302	.50657	.49404	.53607	.59731	A049-04A
51	A049-04T	.00007	79.045	.02632	.00015	.00027	.00022	.00045	.01131	A049-04T
52	A049-04J	-.00018	15.767	.00529	-.00024	.00015	.00018	.00002	.01056	A049-04J
53	A146-03	-.00036	1.2705	.12784	-.00320	.03892	.57176	.27367	13.853	A146-03
54	A146-05	-.00063	1.5464	.08860	-.00290	.03971	.74126	.30800	6.4630	A146-05

55	Blank	-.00009	.01453	.00006	-.00004	.00014	.00060	.00008	.00714	Blank
56	CCV5	.49080	63.160	.48852	2.2933	.50781	.48798	1.4605	2.6533	CCV5
57	CCB5	-.00017	.05025	.00011	.00037	.00011	.00014	.00012	-.00028	CCB5
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8A019 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments: DIGESTOR D

Book #: EIP-098
Batch: 1PA036S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

1/21/11 Start	Temp	1/21/11 End	Temp
11:40	90 °C	13:40	90 °C

Standards	ID	Amount Added (ml) LK 1/25/11
LCS-1	SMIA-13-02-11	~~0.25~~ 0.50
LCS-2	12	~~0.25~~ 0.50 LK 1/25
LCS-3	13	~~0.50~~ 1.0
MS		LK 1/25/11
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SWIA-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10
Digestate Location	ICP	
Extract Location		

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101983555

Prepared By: LK/NT
Standard Added By: LK/TH Witnessed By: LK/TH
Extract Rcvd By: TH Checked By: TH

7022

FileID: IPA036S

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA036S01	IPA036SB	1	g	1/21/11 10:54	100	1	100	1	
11IPA036S02	IPA036SL	1	g	1/21/11 10:54	100	1	100	1	
11IPA036S03	IPA036SC	1	g	1/21/11 10:54	100	1	100	1	
11IPA036S04	A146-03	1.019	g	1/21/11 10:55	100	1	100	0.981	DRIED AND SIEVED
11IPA036S05	A146-05	1.064	g	1/21/11 10:56	100	1	100	0.94	DRIED AND SIEVED
11IPA036S06	~~A092-03R~~ LK 1/21/11	1.061	g	1/21/11 10:57	100	1	100	0.943	DRIED AND SIEVED
11IPA036S07	A092-03M	1.061	g	1/21/11 10:57	100	1	100	0.943	DRIED AND SIEVED
11IPA036S08	A092-03S	1.064	g	1/21/11 10:58	100	1	100	0.94	DRIED AND SIEVED

LK 1/21/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/21/11 11:40 Prepared By: LK/NT

☑ Digestion Ended @ 1/21/11 13:40 Checked By: TH

Comments: Date 1/21/2011

LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-24-2011
EMAX Batch No.: 11A092

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report Revision_1
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 01/11/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB231-03-01	A092-01	01/08/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-03-02	A092-02	01/08/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-04-01	A092-03	01/08/11	SOIL	METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-04-02	A092-04	01/08/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-05-01	A092-05	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-05-02	A092-06	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-06-01	A092-07	01/09/11	SOIL	LEAD
				METALS BY ICP

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS SIEVE AND OVEN DRY SOIL
CB231-06-02	A092-08	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-07-01	A092-09	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-07-02	A092-10	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-06-01	A092-11	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-06-02	A092-12	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-07-01	A092-13	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-07-02	A092-14	01/09/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-08-01	A092-15	01/10/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-08-02	A092-16	01/10/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-09-01	A092-17	01/10/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-09-02	A092-18	01/10/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Linh Pham

From: Ye Myint
Sent: Friday, January 21, 2011 2:56 PM
To: 'John.Ynfante@CH2M.com'
Cc: Linh Pham
Subject: RE: Revisions needed

John,

I apologize for the error on the IDs. We will make the corrections and e-mail you the revised report. Thanks.

Ye

310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Friday, January 21, 2011 2:12 PM
To: Ye Myint; Linh Pham
Subject: Revisions needed

Linh and Ye,

It was brought to my attention that the samples in SDG #11A092-11 through 11A092-18 were reported as samples CB091-06-01, CB091-06-02, etc. and the "CB091" should have been "CP091" per the chain. Please revise these reports to change these sample IDs from CB091-06-01 to CP091-06-01 and so forth for those 8 samples. Thanks.

John Ynfante
CH2M HILL
Ashford V
14701 St. Mary's Lane, Suite 300
Houston, Texas 77079-2923
Direct: 281-721-8546
FAX: 281-721-8401

www.ch2mhill.com
John.Ynfante@ch2m.com

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A092
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA018SB	1	NA	01/13/1118:13	01/13/1110:50	ID8A012053	ID8A012051	IPA018S	Method Blank
LCS1S	IPA018SL	1	NA	01/13/1118:16	01/13/1110:50	ID8A012054	ID8A012051	IPA018S	Lab Control Sample (LCS)
LCD1S	IPA018SC	1	NA	01/13/1118:19	01/13/1110:50	ID8A012055	ID8A012051	IPA018S	LCS Duplicate
CP091-09-02AS	A092-18A	9.57	24.5	01/18/1114:15	01/13/1110:50	ID8A014049	ID8A014047	IPA018S	Analytical Spike Sample
CP091-09-02	A092-18T	9.57	24.5	01/18/1114:17	01/13/1110:50	ID8A014050	ID8A014047	IPA018S	Diluted Sample
CP091-09-02DL	A092-18J	47.8	24.5	01/18/1114:20	01/13/1110:50	ID8A014051	ID8A014047	IPA018S	Diluted Sample
CP091-09-02MS	A092-18G	9.58	24.5	01/18/1114:23	01/13/1110:50	ID8A014052	ID8A014047	IPA018S	Matrix Spike Sample (MS)
CP091-09-02MSD	A092-18H	9.54	24.5	01/18/1114:26	01/13/1110:50	ID8A014053	ID8A014047	IPA018S	MS Duplicate (MSD)
CB231-03-01	A092-01T	9.93	16.9	01/18/1114:28	01/13/1110:50	ID8A014054	ID8A014047	IPA018S	Diluted Sample
CB231-03-02	A092-02T	9.64	18.2	01/18/1114:31	01/13/1110:50	ID8A014055	ID8A014047	IPA018S	Diluted Sample
CB231-04-01	A092-03	9.63	17.6	01/13/1118:49	01/13/1110:50	ID8A012066	ID8A012063	IPA018S	Field Sample
CB231-04-02	A092-04	0.988	17.5	01/13/1118:52	01/13/1110:50	ID8A012067	ID8A012063	IPA018S	Field Sample
CB231-05-01	A092-05T	9.57	20.1	01/18/1114:34	01/13/1110:50	ID8A014056	ID8A014047	IPA018S	Diluted Sample
CB231-05-02	A092-06T	9.89	19.7	01/18/1114:36	01/13/1110:50	ID8A014057	ID8A014047	IPA018S	Diluted Sample
CB231-06-01	A092-07T	9.77	21.1	01/18/1114:48	01/13/1110:50	ID8A014061	ID8A014059	IPA018S	Diluted Sample
CB231-06-02	A092-08T	9.93	19.7	01/18/1114:50	01/13/1110:50	ID8A014062	ID8A014059	IPA018S	Diluted Sample
CB231-07-01	A092-09T	9.90	21.7	01/19/1114:17	01/13/1110:50	ID8A015056	ID8A015046	IPA018S	Diluted Sample
CB231-07-02	A092-10	0.993	20.7	01/13/1119:08	01/13/1110:50	ID8A012073	ID8A012063	IPA018S	Field Sample
CP091-06-01	A092-11	0.943	19.4	01/13/1119:19	01/13/1110:50	ID8A012077	ID8A012075	IPA018S	Field Sample
CP091-06-02	A092-12	0.964	20.1	01/13/1119:22	01/13/1110:50	ID8A012078	ID8A012075	IPA018S	Field Sample
CP091-07-01	A092-13	0.938	20.9	01/13/1119:24	01/13/1110:50	ID8A012079	ID8A012075	IPA018S	Field Sample
CP091-07-02	A092-14	0.938	18.0	01/13/1119:27	01/13/1110:50	ID8A012080	ID8A012075	IPA018S	Field Sample
CP091-08-01	A092-15T	9.80	23.0	01/18/1114:53	01/13/1110:50	ID8A014063	ID8A014059	IPA018S	Diluted Sample
CP091-08-02	A092-16T	9.93	21.6	01/18/1114:56	01/13/1110:50	ID8A014064	ID8A014059	IPA018S	Diluted Sample
CP091-09-01	A092-17T	9.30	26.3	01/18/1114:58	01/13/1110:50	ID8A014065	ID8A014059	IPA018S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

Revised Report

7002

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 13:50
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-06-01	Date Analyzed:	01/13/11 19:19
Lab Samp ID:	A092-11	Dilution Factor:	0.943
Lab File ID:	ID8A012077	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	19.4
Calib. Ref.:	ID8A012075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.54	1.17	0.117
Zinc	391	1.17	0.585

Revised Report

7013

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 13:55
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-06-02	Date Analyzed:	01/13/11 19:22
Lab Samp ID:	A092-12	Dilution Factor:	0.964
Lab File ID:	ID8A012078	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	20.1
Calib. Ref.:	ID8A012075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.07J	1.21	0.121
Zinc	315	1.21	0.603

Revised Report

7014

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 14:30
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-07-01	Date Analyzed:	01/13/11 19:24
Lab Samp ID:	A092-13	Dilution Factor:	0.938
Lab File ID:	ID8A012079	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	20.9
Calib. Ref.:	ID8A012075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.60	1.19	0.119
Zinc	402	1.19	0.593

Revised Report

7015

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 14:35
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-07-02	Date Analyzed:	01/13/11 19:27
Lab Samp ID:	A092-14	Dilution Factor:	0.938
Lab File ID:	ID8A012080	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	18.0
Calib. Ref.:	ID8A012075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.14	0.114
Zinc	78.8	1.14	0.572

Revised Report

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 08:50
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-08-01	Date Analyzed:	01/18/11 14:53
Lab Samp ID:	A092-15T	Dilution Factor:	9.80
Lab File ID:	ID8A014063	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	23.0
Calib. Ref.:	ID8A014059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	88.7	12.7	1.27
Zinc	14900	12.7	6.36

Revised Report

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 09:15
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-08-02	Date Analyzed:	01/18/11 14:56
Lab Samp ID:	A092-16T	Dilution Factor:	9.93
Lab File ID:	ID8A014064	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	21.6
Calib. Ref.:	ID8A014059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	53.7	12.7	1.27
Zinc	10700	12.7	6.33

Revised Report

7018

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 09:45
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-09-01	Date Analyzed:	01/18/11 14:58
Lab Samp ID:	A092-17T	Dilution Factor:	9.30
Lab File ID:	ID8A014065	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	26.3
Calib. Ref.:	ID8A014059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	115	12.6	1.26
Zinc	21500	12.6	6.31

Revised Report

7019

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 09:50
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:50
Sample ID:	CP091-09-02	Date Analyzed:	01/18/11 14:17
Lab Samp ID:	A092-18T	Dilution Factor:	9.57
Lab File ID:	ID8A014050	Matrix :	SOIL
Ext Btch ID:	IPA018S	% Moisture :	24.5
Calib. Ref.:	ID8A014047	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	53.4	12.7	1.27
Zinc	7740	12.7	6.34

Revised Report

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A092
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	24.5
DILTN FACTR:	9.57	9.58	9.54		
SAMPLE ID:	CP091-09-02				
CONTROL NO.:	A092-18T	A092-18G	A092-18H		
LAB FILE ID:	ID8A014050	ID8A014052	ID8A014053		
DATIME EXTRCTD:	01/13/1110:50	01/13/1110:50	01/13/1110:50	DATE COLLECTED:	01/10/11 09:50
DATIME ANALYZD:	01/18/1114:17	01/18/1114:23	01/18/1114:26	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA018S	IPA018S	IPA018S		
CALIB. REF:	ID8A014047	ID8A014047	ID8A014047		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	53.4	63.4	98.2	71*	63.2	234	286*	120*	75-125	20
Zinc	7740	63.4	4650	-4879*	63.2	21700	22082*	313*	75-125	20

Revised Report

7023

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A092
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	24.5
DILUTION FACTOR:	9.57	47.8		
SAMPLE ID:	CP091-09-02	CB091-09-02DL		
EMAX SAMP ID:	A092-18T	A092-18J		
LAB FILE ID:	ID8A014050	ID8A014051		
DATE EXTRACTED:	01/13/1110:50	01/13/1110:50	DATE COLLECTED:	01/10/11 09:50
DATE ANALYZED:	01/18/1114:17	01/18/1114:20	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA018S	IPA018S		
CALIB. REF:	ID8A014047	ID8A014047		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	53.4	54.4J	NA	10
Zinc	7740	7930	2	10

Revised Report

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A092
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	24.5
DILTN FACTR:	9.57	9.57		
SAMPLE ID:	CP091-09-02			
CONTROL NO.:	A092-18T	A092-18A		
LAB FILE ID:	ID8A014050	ID8A014049		
DATIME EXTRCTD:	01/13/1110:50	01/13/1110:50	DATE COLLECTED:	01/10/11 09:50
DATIME ANALYZD:	01/18/1114:17	01/18/1114:15	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA018S	IPA018S		
CALIB. REF:	ID8A014047	ID8A014047		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	53.4	634	752	110	75-125
Zinc	7740	634	8500	120	75-125

Revised Report

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A092
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA019SB	1	NA	01/13/1119:46	01/13/1110:40	ID8A012087	ID8A012085	IPA019S	Method Blank
LCS1S	IPA019SL	1	NA	01/13/1119:49	01/13/1110:40	ID8A012088	ID8A012085	IPA019S	Lab Control Sample (LCS)
LCD1S	IPA019SC	1	NA	01/13/1119:52	01/13/1110:40	ID8A012089	ID8A012085	IPA019S	LCS Duplicate
CP091-09-02	A092-18	0.984	NA	01/13/1119:57	01/13/1110:40	ID8A012091	ID8A012085	IPA019S	Field Sample
CP091-09-02DL	A092-18J	4.92	NA	01/13/1120:00	01/13/1110:40	ID8A012092	ID8A012085	IPA019S	Diluted Sample
CP091-09-02MS	A092-18M	0.984	NA	01/13/1120:02	01/13/1110:40	ID8A012093	ID8A012085	IPA019S	Matrix Spike Sample (MS)
CP091-09-02MSD	A092-18S	0.986	NA	01/13/1120:05	01/13/1110:40	ID8A012094	ID8A012085	IPA019S	MS Duplicate (MSD)
CB231-03-01	A092-01	0.959	NA	01/13/1120:08	01/13/1110:40	ID8A012095	ID8A012085	IPA019S	Field Sample
CB231-03-02	A092-02	0.993	NA	01/13/1120:19	01/13/1110:40	ID8A012099	ID8A012097	IPA019S	Field Sample
CB231-04-02	A092-04	0.958	NA	01/13/1120:22	01/13/1110:40	ID8A012100	ID8A012097	IPA019S	Field Sample
CB231-05-01	A092-05	0.932	NA	01/13/1120:24	01/13/1110:40	ID8A012101	ID8A012097	IPA019S	Field Sample
CB231-05-02	A092-06	0.932	NA	01/13/1120:27	01/13/1110:40	ID8A012102	ID8A012097	IPA019S	Field Sample
CB231-06-01	A092-07	0.973	NA	01/13/1120:30	01/13/1110:40	ID8A012103	ID8A012097	IPA019S	Field Sample
CB231-06-02	A092-08	0.970	NA	01/13/1120:32	01/13/1110:40	ID8A012104	ID8A012097	IPA019S	Field Sample
CB231-07-01	A092-09	0.949	NA	01/13/1120:35	01/13/1110:40	ID8A012105	ID8A012097	IPA019S	Field Sample
CB231-07-02	A092-10	0.983	NA	01/13/1120:38	01/13/1110:40	ID8A012106	ID8A012097	IPA019S	Field Sample
CP091-06-01	A092-11	0.997	NA	01/13/1120:49	01/13/1110:40	ID8A012110	ID8A012108	IPA019S	Field Sample
CP091-06-02	A092-12	0.995	NA	01/13/1120:52	01/13/1110:40	ID8A012111	ID8A012108	IPA019S	Field Sample
CP091-07-01	A092-13	0.972	NA	01/13/1120:54	01/13/1110:40	ID8A012112	ID8A012108	IPA019S	Field Sample
CP091-07-02	A092-14	0.954	NA	01/13/1120:57	01/13/1110:40	ID8A012113	ID8A012108	IPA019S	Field Sample
CP091-08-01	A092-15	0.942	NA	01/13/1121:00	01/13/1110:40	ID8A012114	ID8A012108	IPA019S	Field Sample
CP091-08-02	A092-16	0.996	NA	01/13/1121:03	01/13/1110:40	ID8A012115	ID8A012108	IPA019S	Field Sample
CP091-09-01	A092-17	0.931	NA	01/13/1121:06	01/13/1110:40	ID8A012116	ID8A012108	IPA019S	Field Sample

FN - Filename
% Moist - Percent Moisture

Revised Report

7101

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 13:50
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-06-01	Date Analyzed:	01/13/11 20:49
Lab Samp ID:	A092-11	Dilution Factor:	0.997
Lab File ID:	ID8A012110	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	45.9	0.997	0.199

Revised Report

7111

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 13:55
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-06-02	Date Analyzed:	01/13/11 20:52
Lab Samp ID:	A092-12	Dilution Factor:	0.995
Lab File ID:	ID8A012111	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	43.2	0.995	0.199

Revised Report

7112

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 14:30
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-07-01	Date Analyzed:	01/13/11 20:54
Lab Samp ID:	A092-13	Dilution Factor:	0.972
Lab File ID:	ID8A012112	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	28.0	0.972	0.194

Revised Report

7113

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/09/11 14:35
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-07-02	Date Analyzed:	01/13/11 20:57
Lab Samp ID:	A092-14	Dilution Factor:	0.954
Lab File ID:	ID8A012113	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	15.9	0.954	0.191

Revised Report

7114

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 08:50
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-08-01	Date Analyzed:	01/13/11 21:00
Lab Samp ID:	A092-15	Dilution Factor:	0.942
Lab File ID:	ID8A012114	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	255	0.942	0.188

Revised Report

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 09:15
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-08-02	Date Analyzed:	01/13/11 21:03
Lab Samp ID:	A092-16	Dilution Factor:	0.996
Lab File ID:	ID8A012115	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	244	0.996	0.199

Revised Report

7116

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 09:45
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-09-01	Date Analyzed:	01/13/11 21:06
Lab Samp ID:	A092-17	Dilution Factor:	0.931
Lab File ID:	ID8A012116	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	421	0.931	0.186

Revised Report

7117

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/10/11 09:50
Project	: TAR CREEK OU4	Date Received:	01/11/11
SDG NO.	: 11A092	Date Extracted:	01/13/11 10:40
Sample ID:	CP091-09-02	Date Analyzed:	01/13/11 19:57
Lab Samp ID:	A092-18	Dilution Factor:	0.984
Lab File ID:	ID8A012091	Matrix :	SOIL
Ext Btch ID:	IPA019S	% Moisture :	NA
Calib. Ref.:	ID8A012085	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	153	0.984	0.197

Revised Report

7118

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A092
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	0.984	0.984	0.986		
SAMPLE ID:	CP091-09-02				
CONTROL NO.:	A092-18	A092-18M	A092-18S		
LAB FILE ID:	ID8A012091	ID8A012093	ID8A012094		
DATIME EXTRCTD:	01/13/1110:40	01/13/1110:40	01/13/1110:40	DATE COLLECTED:	01/10/11 09:50
DATIME ANALYZD:	01/13/1119:57	01/13/1120:02	01/13/1120:05	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA019S	IPA019S	IPA019S		
CALIB. REF:	ID8A012085	ID8A012085	ID8A012085		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	153	49.2	198	91	49.3	199	94	3	75-125	20

Revised Report

7121

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A092
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.984	4.92		
SAMPLE ID:	CP091-09-02	CP091-09-02DL		
EMAX SAMP ID:	A092-18	A092-18J		
LAB FILE ID:	ID8A012091	ID8A012092		
DATE EXTRACTED:	01/13/1110:40	01/13/1110:40	DATE COLLECTED:	01/10/11 09:50
DATE ANALYZED:	01/13/1119:57	01/13/1120:00	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA019S	IPA019S		
CALIB. REF:	ID8A012085	ID8A012085		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	153	153	0	10

Revised Report

7122

TABLE OF CONTENTS

CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11A146**

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GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7049 7050 – 7074
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-26-2011
EMAX Batch No.: 11A146

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 01/19/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CP091-10-01	A146-01	01/17/11	SOIL	CADMIUM
CP091-10-02	A146-02	01/17/11	SOIL	CADMIUM
CP091-11-01	A146-03	01/17/11	SOIL	LEAD
				METALS SIEVE AND OVEN DRY SOIL
				METALS BY ICP
CP091-11-02	A146-04	01/17/11	SOIL	CADMIUM
CP091-12-01	A146-05	01/17/11	SOIL	LEAD
				METALS SIEVE AND OVEN DRY SOIL
				METALS BY ICP
CP091-12-01FD	A146-06	01/17/11	SOIL	CADMIUM
CP091-12-02	A146-07	01/17/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

for

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

CH_1002_

11A146

Chain of Custody Record

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client CH2M HILL, Inc.	**Project Manager** John Ynfante		**Date** January 18, 2011	**Chain of Custody Number** 1 of 1
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401		
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**	
Project Name Tar Creek OU4	**Carrier/Waybill Numbe** 796667526201	**CH2M HILL Project Number:** 395950.CV.01		
Samplers: SP/PG				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Zn	Cd					Comments
1	CP091-10-01	January 17, 2011	11:10	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
2	CP091-10-02	January 17, 2011	11:15	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
3	CP091-11-01	January 17, 2011	10:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
4	CP091-11-02	January 17, 2011	10:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
5	CP091-12-01	January 17, 2011	10:05	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
6	CP091-12-01FD	January 17, 2011	10:05	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
7	CP091-12-02	January 17, 2011	10:10	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only

Turnaround Time 7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Kui Tan	**Date:** January 18, 2011	**Time:** 18:00	**1. Received By:** FedEX	**Date:**	**Time:**
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:** 1-19-10	09:00
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:**	

Comments
Sieve lead samples with #60 sieve; All samples shall also be analyzed for percent moisture content.

T- 3.6C

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill		
☐ EMAX Courier		ECN	11A146
		Recepient	AUNG
☐ Client Delivery		Date	01-19-11
☒ Third Party FedEx	7966 6752 6201	Time	09:00 am

COC Inspection

☒ Client Name	☒ Client PM/FC	☒ Sampler Name	☒ Sampling Date/Time/Location	☒ Sample ID	☒ Matrix
☒ Address	☒ Tel # / Fax #	☒ Courier Signature	☒ Analysis Required	☐ Preservative (if any)	☒ TAT
Safety Issues	☒ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☒ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☒ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☒ Cooler 1 3.6 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling Mup Aung Date 01-19-11

SRF _____ Date 01/19/11

PM LP for Ye Date 1/19/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: (281) 721-8534
Kui Tan
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11101012220225

Ship Date: 18JAN11
ActWgt: 30.0 LB
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Ref # 395950.CV.01/AAB00103032
Invoice #
PO #
Dept #

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

WED - 19 JAN A1
STANDARD OVERNIGHT

TRK# 0201 7966 6752 6201

A7 AVXA

90501
CA-US
LAX

50DG1/DE77/7EFB

11A146
1-19-11 09:00
T-3.6'C

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS / MERCURY

SDG#: 11A146

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A146

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of seven (7) soil samples were received on 01/19/11 for Metals by ICP analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement except Zinc was detected >RL. However, all associated samples were detected >100x the method blank concentration level. Thus, no further correction action was implemented.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA031SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for A146-07M/S (Cadmium) were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A146
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA031SB	1	NA	01/20/1120:21	01/20/1112:20	ID8A017077	ID8A017075	IPA031S	Method Blank
LCS1S	IPA031SL	1	NA	01/20/1120:24	01/20/1112:20	ID8A017078	ID8A017075	IPA031S	Lab Control Sample (LCS)
LCD1S	IPA031SC	1	NA	01/20/1120:26	01/20/1112:20	ID8A017079	ID8A017075	IPA031S	LCS Duplicate
CP091-12-02AS	A146-07A	0.923	25.2	01/20/1120:29	01/20/1112:20	ID8A017080	ID8A017075	IPA031S	Analytical Spike Sample
CP091-12-02	A146-07	0.923	25.2	01/20/1120:32	01/20/1112:20	ID8A017081	ID8A017075	IPA031S	Field Sample
CP091-12-02DL	A146-07J	4.62	25.2	01/20/1120:34	01/20/1112:20	ID8A017082	ID8A017075	IPA031S	Diluted Sample
CP091-12-02MS	A146-07M	0.926	25.2	01/20/1120:37	01/20/1112:20	ID8A017083	ID8A017075	IPA031S	Matrix Spike Sample (MS)
CP091-12-02MSD	A146-07S	0.944	25.2	01/20/1120:40	01/20/1112:20	ID8A017084	ID8A017075	IPA031S	MS Duplicate (MSD)
CP091-10-01	A146-01	0.948	19.8	01/20/1120:42	01/20/1112:20	ID8A017085	ID8A017075	IPA031S	Field Sample
CP091-10-02	A146-02	0.978	20.5	01/20/1120:54	01/20/1112:20	ID8A017089	ID8A017087	IPA031S	Field Sample
CP091-11-02	A146-04	0.923	20.4	01/20/1120:59	01/20/1112:20	ID8A017091	ID8A017087	IPA031S	Field Sample
CP091-12-01FD	A146-06	0.982	21.6	01/20/1121:04	01/20/1112:20	ID8A017093	ID8A017087	IPA031S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 11:10
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-10-01	Date Analyzed:	01/20/11 20:42
Lab Samp ID:	A146-01	Dilution Factor:	0.948
Lab File ID:	ID8A017085	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	19.8
Calib. Ref.:	ID8A017075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.18	0.118

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 11:15
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-10-02	Date Analyzed:	01/20/11 20:54
Lab Samp ID:	A146-02	Dilution Factor:	0.978
Lab File ID:	ID8A017089	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	20.5
Calib. Ref.:	ID8A017087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.23	0.123

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:35
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-11-02	Date Analyzed:	01/20/11 20:59
Lab Samp ID:	A146-04	Dilution Factor:	0.923
Lab File ID:	ID8A017091	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	20.4
Calib. Ref.:	ID8A017087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.11J	1.16	0.116

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:05
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-12-01FD	Date Analyzed:	01/20/11 21:04
Lab Samp ID:	A146-06	Dilution Factor:	0.982
Lab File ID:	ID8A017093	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	21.6
Calib. Ref.:	ID8A017087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.69	1.25	0.125

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:10
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-12-02	Date Analyzed:	01/20/11 20:32
Lab Samp ID:	A146-07	Dilution Factor:	0.923
Lab File ID:	ID8A017081	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	25.2
Calib. Ref.:	ID8A017075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.575J	1.23	0.123

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/20/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	MBLK1S	Date Analyzed:	01/20/11 20:21
Lab Samp ID:	IPA031SB	Dilution Factor:	1
Lab File ID:	ID8A017077	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	NA
Calib. Ref.:	ID8A017075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA031SB	IPA031SL	IPA031SC		
LAB FILE ID:	ID8A017077	ID8A017078	ID8A017079		
DATIME EXTRCTD:	01/20/1112:20	01/20/1112:20	01/20/1112:20	DATE COLLECTED:	NA
DATIME ANALYZD:	01/20/1120:21	01/20/1120:24	01/20/1120:26	DATE RECEIVED:	01/20/11
PREP. BATCH:	IPA031S	IPA031S	IPA031S		
CALIB. REF:	ID8A017075	ID8A017075	ID8A017075		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	51.3	103	50	51	102	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	25.2
DILTN FACTR:	0.923	0.926	0.944		
SAMPLE ID:	CP091-12-02				
CONTROL NO.:	A146-07	A146-07M	A146-07S		
LAB FILE ID:	ID8A017081	ID8A017083	ID8A017084		
DATIME EXTRCTD:	01/20/1112:20	01/20/1112:20	01/20/1112:20	DATE COLLECTED:	01/17/11 10:10
DATIME ANALYZD:	01/20/1120:32	01/20/1120:37	01/20/1120:40	DATE RECEIVED:	01/19/11
PREP. BATCH:	IPA031S	IPA031S	IPA031S		
CALIB. REF:	ID8A017075	ID8A017075	ID8A017075		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	.575J	61.9	59.5	95	63.1	62.5	98	3	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	25.2
DILUTION FACTOR:	0.923	4.62		
SAMPLE ID:	CP091-12-02	CP091-12-D2DL		
EMAX SAMP ID:	A146-07	A146-07J		
LAB FILE ID:	ID8A017081	ID8A017082		
DATE EXTRACTED:	01/20/1112:20	01/20/1112:20	DATE COLLECTED:	01/17/11 10:10
DATE ANALYZED:	01/20/1120:32	01/20/1120:34	DATE RECEIVED:	01/19/11
PREP. BATCH:	IPA031S	IPA031S		
CALIB. REF:	ID8A017075	ID8A017075		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.575J	ND	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	25.2
DILTN FACTR:	0.923	0.923		
SAMPLE ID:	CP091-12-02			
CONTROL NO.:	A146-07	A146-07A		
LAB FILE ID:	ID8A017081	ID8A017080		
DATIME EXTRCTD:	01/20/1112:20	01/20/1112:20	DATE COLLECTED:	01/17/11 10:10
DATIME ANALYZD:	01/20/1120:32	01/20/1120:29	DATE RECEIVED:	01/19/11
PREP. BATCH:	IPA031S	IPA031S		
CALIB. REF:	ID8A017075	ID8A017075		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.575J	61.7	62.6	100	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A146
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA031SB	1	NA	01/20/1120:21	01/20/1112:20	ID8A017077	ID8A017075	IPA031S	Method Blank
LCS1S	IPA031SL	1	NA	01/20/1120:24	01/20/1112:20	ID8A017078	ID8A017075	IPA031S	Lab Control Sample (LCS)
LCD1S	IPA031SC	1	NA	01/20/1120:26	01/20/1112:20	ID8A017079	ID8A017075	IPA031S	LCS Duplicate
CP091-12-02AS	A146-07A	0.923	25.2	01/20/1120:29	01/20/1112:20	ID8A017080	ID8A017075	IPA031S	Analytical Spike Sample
CP091-12-02	A146-07	0.923	25.2	01/20/1120:32	01/20/1112:20	ID8A017081	ID8A017075	IPA031S	Field Sample
CP091-12-02DL	A146-07J	4.62	25.2	01/20/1120:34	01/20/1112:20	ID8A017082	ID8A017075	IPA031S	Diluted Sample
CP091-11-01	A146-03	0.954	35.4	01/20/1120:56	01/20/1112:20	ID8A017090	ID8A017087	IPA031S	Field Sample
CP091-12-01	A146-05	0.975	20.1	01/20/1121:02	01/20/1112:20	ID8A017092	ID8A017087	IPA031S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:30
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-11-01	Date Analyzed:	01/20/11 20:56
Lab Samp ID:	A146-03	Dilution Factor:	0.954
Lab File ID:	ID8A017090	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	35.4
Calib. Ref.:	ID8A017087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	12.1	1.48	0.148
Zinc	1860	1.48	0.738

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:05
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-12-01	Date Analyzed:	01/20/11 21:02
Lab Samp ID:	A146-05	Dilution Factor:	0.975
Lab File ID:	ID8A017092	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	20.1
Calib. Ref.:	ID8A017087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.82	1.22	0.122
Zinc	655	1.22	0.610

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:10
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	CP091-12-02	Date Analyzed:	01/20/11 20:32
Lab Samp ID:	A146-07	Dilution Factor:	0.923
Lab File ID:	ID8A017081	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	25.2
Calib. Ref.:	ID8A017075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.575J	1.23	0.123
Zinc	247	1.23	0.617

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/20/11
SDG NO.	: 11A146	Date Extracted:	01/20/11 12:20
Sample ID:	MBLK1S	Date Analyzed:	01/20/11 20:21
Lab Samp ID:	IPA031SB	Dilution Factor:	1
Lab File ID:	ID8A017077	Matrix :	SOIL
Ext Btch ID:	IPA031S	% Moisture :	NA
Calib. Ref.:	ID8A017075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100
Zinc	3.31	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA031SB	IPA031SL	IPA031SC		
LAB FILE ID:	ID8A017077	ID8A017078	ID8A017079		
DATIME EXTRCTD:	01/20/1112:20	01/20/1112:20	01/20/1112:20	DATE COLLECTED:	NA
DATIME ANALYZD:	01/20/1120:21	01/20/1120:24	01/20/1120:26	DATE RECEIVED:	01/20/11
PREP. BATCH:	IPA031S	IPA031S	IPA031S		
CALIB. REF:	ID8A017075	ID8A017075	ID8A017075		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	51.3	103	50	51	102	1	80-120	20
Zinc	3.31	50	57.2	108	50	58.4	110	2	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	25.2
DILUTION FACTOR:	0.923	4.62		
SAMPLE ID:	CP091-12-02	CP091-12-02DL		
EMAX SAMP ID:	A146-07	A146-07J		
LAB FILE ID:	ID8A017081	ID8A017082		
DATE EXTRACTED:	01/20/1112:20	01/20/1112:20	DATE COLLECTED:	01/17/11 10:10
DATE ANALYZED:	01/20/1120:32	01/20/1120:34	DATE RECEIVED:	01/19/11
PREP. BATCH:	IPA031S	IPA031S		
CALIB. REF:	ID8A017075	ID8A017075		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.575J	ND	NA	10
Zinc	247	237	4	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	25.2
DILTN FACTR:	0.923	0.923		
SAMPLE ID:	CP091-12-02			
CONTROL NO.:	A146-07	A146-07A		
LAB FILE ID:	ID8A017081	ID8A017080		
DATIME EXTRCTD:	01/20/1112:20	01/20/1112:20	DATE COLLECTED:	01/17/11 10:10
DATIME ANALYZD:	01/20/1120:32	01/20/1120:29	DATE RECEIVED:	01/19/11
PREP. BATCH:	IPA031S	IPA031S		
CALIB. REF:	ID8A017075	ID8A017075		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.575J	61.7	62.6	100	75-125
Zinc	247	61.7	310	102	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/20/11 16:51

End Date: 1/20/11 23:27

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments:

1PA03CWB Al > ½ LOQ

1PA031SB Zn > RL However associated samples detected >100X method blank conc.

Book #: AD8-017

Instrument No.: D8

Analytical Batch: 1D8A017

Analytical Sequence: S-11A6010 (V23)

Method File: 11A6010 (V23)

Database: Emax 13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-21-02	S30	SM1B14 02 03
S1	NA	S31	02 04
S2		ICV	2701
S3		CCV	2103
S4		ICSA	20-02
S5		ICSAB	18-03
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B14R-01
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B12-100-05		
S21	SM1B14-01-01		
S22	01-02		
S23	01-03		
S24	01-04		
S25	01-05		
S26	SM1B12-100-02		
S27	100-03		
S28	SM1B14-02-01		
S29	0202		

Analyzed By: TH

Date: 1/21/11

SEQUENCE FILE : ID8A017

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A017001	Blank	16:51	01/20/11	1.000
ID8A017002	S20	16:54	01/20/11	1.000
ID8A017003	S21	16:56	01/20/11	1.000
ID8A017004	S22	16:59	01/20/11	1.000
ID8A017005	S23	17:02	01/20/11	1.000
ID8A017006	S24	17:05	01/20/11	1.000
ID8A017007	S25	17:08	01/20/11	1.000
ID8A017008	S26	17:11	01/20/11	1.000
ID8A017009	S27	17:14	01/20/11	1.000
ID8A017010	S28	17:17	01/20/11	1.000
ID8A017011	S29	17:20	01/20/11	1.000
ID8A017012	S30	17:23	01/20/11	1.000
ID8A017013	S31	17:25	01/20/11	1.000
ID8A017014	ICV	17:28	01/20/11	1.000
ID8A017015	IC8	17:31	01/20/11	1.000
ID8A017016	MRLA2001	17:34	01/20/11	1.000
ID8A017017	MRLA2002	17:36	01/20/11	1.000
ID8A017018	ICSA1	17:39	01/20/11	1.000
ID8A017019	ICSAB1	17:42	01/20/11	1.000
ID8A017020	CCV1	17:45	01/20/11	1.000
ID8A017021	CCB1	17:48	01/20/11	1.000
ID8A017022	IPA030W8	17:50	01/20/11	1.000
ID8A017023	IPA030WL	17:53	01/20/11	1.000
ID8A017024	IPA030WC	17:56	01/20/11	1.000
ID8A017025	A126-01A	17:58	01/20/11	1.000
ID8A017026	A126-01	18:01	01/20/11	1.000
ID8A017027	A126-01J	18:04	01/20/11	5.000
ID8A017028	A126-02	18:07	01/20/11	1.000
ID8A017029	A126-03	18:09	01/20/11	1.000
ID8A017030	A126-04	18:12	01/20/11	1.000
ID8A017031	Blank	18:15	01/20/11	1.000
ID8A017032	CCV2	18:18	01/20/11	1.000
ID8A017033	CC82	18:20	01/20/11	1.000
ID8A017034	A470-01T	18:23	01/20/11	10.00
ID8A017035	A470-02W	18:26	01/20/11	1.000
ID8A017036	A470-03W	18:29	01/20/11	1.000
ID8A017037	A470-04W	18:31	01/20/11	1.000
ID8A017038	A470-05W	18:34	01/20/11	1.000
ID8A017039	Blank	18:37	01/20/11	1.000
ID8A017040	CCV3	18:40	01/20/11	1.000
ID8A017041	CC83	18:42	01/20/11	1.000
ID8A017042	A491-01T	18:45	01/20/11	10.00
ID8A017043	A491-02T	18:48	01/20/11	10.00
ID8A017044	A491-03T	18:51	01/20/11	10.00
ID8A017045	A491-04T	18:54	01/20/11	100.0
ID8A017046	A491-05T	18:56	01/20/11	10.00
ID8A017047	A491-06W	18:59	01/20/11	1.000
ID8A017048	A491-07T	19:02	01/20/11	100.0
ID8A017049	A491-08T	19:04	01/20/11	10.00
ID8A017050	A491-09T	19:07	01/20/11	10.00
ID8A017051	Blank	19:10	01/20/11	1.000
ID8A017052	CCV4	19:13	01/20/11	1.000
ID8A017053	CC84	19:16	01/20/11	1.000
ID8A017054	IPA032WB	19:18	01/20/11	1.000

ID8A017055	IPA032WL	19:21	01/20/11	1.000
ID8A017056	IPA032WC	19:24	01/20/11	1.000
ID8A017057	A115-02A	19:26	01/20/11	1.000
ID8A017058	A115-02	19:29	01/20/11	1.000
ID8A017059	A115-02J	19:32	01/20/11	5.000
ID8A017060	A115-02M	19:34	01/20/11	1.000
ID8A017061	A115-02S	19:37	01/20/11	1.000
ID8A017062	A115-01	19:40	01/20/11	1.000
ID8A017063	Blank	19:42	01/20/11	1.000
ID8A017064	CCV5	19:45	01/20/11	1.000
ID8A017065	CCB5	19:48	01/20/11	1.000
ID8A017066	A115-03	19:51	01/20/11	1.000
ID8A017067	A105-02	19:53	01/20/11	1.000
ID8A017068	A124-02	19:56	01/20/11	1.000
ID8A017069	A124-02M	19:59	01/20/11	1.000
ID8A017070	A124-02S	20:02	01/20/11	1.000
ID8A017071	A124-03	20:04	01/20/11	1.000
ID8A017072	A124-04	20:07	01/20/11	1.000
ID8A017073	A160-19	20:10	01/20/11	1.000
ID8A017074	Blank	20:13	01/20/11	1.000
ID8A017075	CCV6	20:15	01/20/11	1.000
ID8A017076	CCB6	20:18	01/20/11	1.000
ID8A017077	IPA031SB	20:21	01/20/11	1.000
ID8A017078	IPA031SL	20:24	01/20/11	1.000
ID8A017079	IPA031SC	20:26	01/20/11	1.000
ID8A017080	A146-07A	20:29	01/20/11	1.000
ID8A017081	A146-07	20:32	01/20/11	1.000
ID8A017082	A146-07J	20:34	01/20/11	5.000
ID8A017083	A146-07M	20:37	01/20/11	1.000
ID8A017084	A146-07S	20:40	01/20/11	1.000
ID8A017085	A146-01	20:42	01/20/11	1.000
ID8A017086	Blank	20:45	01/20/11	1.000
ID8A017087	CCV7	20:48	01/20/11	1.000
ID8A017088	CCB7	20:51	01/20/11	1.000
ID8A017089	A146-02	20:54	01/20/11	1.000
ID8A017090	A146-03	20:56	01/20/11	1.000
ID8A017091	A146-04	20:59	01/20/11	1.000
ID8A017092	A146-05	21:02	01/20/11	1.000
ID8A017093	A146-06	21:04	01/20/11	1.000
ID8A017094	A158-01	21:07	01/20/11	1.000
ID8A017095	A158-02	21:10	01/20/11	1.000
ID8A017096	A158-03	21:13	01/20/11	1.000
ID8A017097	A160-10	21:15	01/20/11	1.000
ID8A017098	Blank	21:18	01/20/11	1.000
ID8A017099	CCV8	21:21	01/20/11	1.000
ID8A017100	CCB8	21:24	01/20/11	1.000
ID8A017101	A160-11	21:26	01/20/11	1.000
ID8A017102	A160-12	21:29	01/20/11	1.000
ID8A017103	A160-13	21:32	01/20/11	1.000
ID8A017104	A160-14	21:34	01/20/11	1.000
ID8A017105	A160-15	21:37	01/20/11	1.000
ID8A017106	A160-16	21:40	01/20/11	1.000
ID8A017107	A160-17	21:43	01/20/11	1.000
ID8A017108	A160-18	21:45	01/20/11	1.000
ID8A017109	Blank	21:48	01/20/11	1.000
ID8A017110	CCV9	21:51	01/20/11	1.000
ID8A017111	CCB9	21:53	01/20/11	1.000

ID8A017112	IPA035WB	21:56	01/20/11	1.000
ID8A017113	IPA035WL	21:59	01/20/11	1.000
ID8A017114	IPA035WC	22:02	01/20/11	1.000
ID8A017115	A752-01A	22:04	01/20/11	1.000
ID8A017116	A752-01	22:07	01/20/11	1.000
ID8A017117	A752-01J	22:10	01/20/11	1.000
ID8A017118	Blank	22:13	01/20/11	5.000
ID8A017119	ICSA2	22:16	01/20/11	1.000
ID8A017120	ICSAB2	22:19	01/20/11	1.000
ID8A017121	CCV10	22:21	01/20/11	1.000
ID8A017122	CCB10	22:24	01/20/11	1.000
ID8A017123	TXA009WB	22:27	01/20/11	1.000
ID8A017124	A504-04A	22:30	01/20/11	1.000
ID8A017125	A504-04	22:33	01/20/11	1.000
ID8A017126	A504-04J	22:36	01/20/11	5.000
ID8A017127	A504-04M	22:39	01/20/11	1.000
ID8A017128	A504-04S	22:41	01/20/11	1.000
ID8A017129	A504-01	22:44	01/20/11	1.000
ID8A017130	A504-02	22:47	01/20/11	1.000
ID8A017131	A504-03	22:50	01/20/11	1.000
ID8A017132	Blank	22:54	01/20/11	1.000
ID8A017133	CCV11	22:56	01/20/11	1.000
ID8A017134	CCB11	22:59	01/20/11	1.000
ID8A017135	A504-05	23:02	01/20/11	1.000
ID8A017136	A504-06	23:05	01/20/11	1.000
ID8A017137	A504-04A	23:08	01/20/11	5.000
ID8A017138	A504-04T	23:11	01/20/11	5.000
ID8A017139	A504-04J	23:13	01/20/11	25.00
ID8A017140	A504-04G	23:16	01/20/11	5.000
ID8A017141	A504-04H	23:19	01/20/11	5.000
ID8A017142	Blank	23:22	01/20/11	1.000
ID8A017143	CCV12	23:24	01/20/11	1.000
ID8A017144	CCB12	23:27	01/20/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A017 DATE : 01/20/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	108	106	105	100	103	100	103	102	99	94	101	98	100	105	100	97	100	102	98	105	101	105	100	101	100	100	100	107
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2001	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2002	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	101	----	----	----	----	----	----	98	----	----	----	94	----	----	100	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	100	110	106	107	101	102	97	96	96	93	106	93	96	112	101	95	102	100	105	105	111	110	104	88	101	98	97	107
CCV1	108	105	103	99	103	99	102	103	98	92	99	96	98	105	101	96	99	100	98	103	99	105	99	100	99	99	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	106	105	104	99	103	99	102	102	98	92	99	95	98	105	100	96	99	101	98	103	99	105	100	100	100	99	98	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	106	104	100	102	99	102	101	97	93	100	95	99	105	99	95	99	101	98	104	99	105	100	100	100	99	98	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	109	105	104	100	104	99	101	102	98	93	100	96	98	105	101	96	100	101	98	103	99	105	100	100	100	100	99	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA032WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPA032WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA032WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	109	108	104	102	104	100	100	103	97	93	101	94	99	107	101	96	101	101	100	104	99	107	101	99	102	102	98	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A105-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	110	109	104	103	105	101	99	103	96	94	102	93	100	108	100	96	102	102	101	105	100	108	102	99	103	102	97	105
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	111*	110	105	103	105	101	100	104	97	94	102	94	100	108	101	97	102	102	101	105	100	108	102	101	103	103	98	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	113*	111*	106	104	106	101	101	105	97	94	103	94	100	108	102	97	102	102	101	106	100	108	102	101	104	104	98	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	112*	110	106	104	106	101	101	106	98	93	102	94	100	108	103	98	102	102	101	106	100	108	102	101	104	104	99	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	106	----	----	----	----	----	----	99	----	----	----	92	----	----	103	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	106	117	109	112	104	107	96	98	95	94	111	91	97	116	103	96	106	101	108	109	114	114	107	90	105	103	97	105
CCV10	112*	110	106	104	106	101	100	105	97	93	103	94	100	108	102	98	102	102	101	106	100	108	102	101	103	104	98	106
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXA009WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	111*	110	105	103	106	109	101	104	97	93	102	94	99	107	102	97	102	102	100	105	100	108	102	101	103	103	98	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	112*	110	106	103	105	105	100	103	97	93	103	94	99	107	101	96	102	102	100	106	100	107	102	101	103	102	98	106
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : IDBA017 (WATER) DATE : 01/20/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	25.5	2.65	-.100	.620	.300	4.36	.090	6.20	.530	.220	.430	-.190	.180	.610	13.2	.450	.910	.250	81.5	.780	.070	30.0	.100	.400	-.620	.440	.280	-1.56
MRLA2001	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2002	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.66	-.980	1.23	-.120	1.000	-3.60	----	1.71	-.350	1.26	----	-3.44	5.78	----	.880	-1.89	-.830	79.0	1.72	.040	77.0	21.2	1.07	2.35	1.97	1.66	1.26
ICSA81	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	37.9	1.83	.220	.650	.210	3.73	.070	82.6	.130	.140	.330	11.8	.130	.160	22.3	.510	.770	.080	77.6	-.300	.140	39.4	.100	.210	-.600	.870	.150	1.57
IPA030WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	26.4	1.92	.110	1.25	.400	4.12	.220	115	.530	.300	.640	5.05	.330	.430	20.4	.870	1.04	.250	65.9	.470	.000	53.4	.200	.420	-.570	.510	.270	3.41
A470-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	17.2	1.92	-.190	.980	.300	3.46	.060	114	.220	.030	.350	.800	.270	.130	10.7	.590	1.08	.010	41.1	.670	.040	31.9	.160	.530	-.780	.340	.100	4.18
A491-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	22.0	1.55	1.69	1.24	.310	3.18	.100	83.9	.470	.090	.520	4.28	.390	-.220	15.4	.480	1.05	.190	24.0	.370	.080	23.3	.120	.580	-.600	.630	.200	4.41
IPA032WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPA032WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA032WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	24.2	1.89	1.26	1.08	.330	4.60	.270	131	.410	.030	.750	4.85	-.410	-.090	11.4	.490	1.14	.270	57.6	-.430	.060	39.2	.190	1.09	-.360	.390	.340	4.87
A115-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A105-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	32.2	1.74	-.120	.980	.530	2.87	.240	67.9	.660	.170	1.08	5.28	.200	-.260	29.6	1.01	1.16	.290	49.8	-.190	.080	42.4	.240	.600	-.700	.570	.400	1.12
IPA031SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	14.1	2.28	-.150	.520	.200	2.08	-.010	43.0	.150	.130	.480	.170	-.830	.050	10.8	.390	.760	-.170	55.6	-.370	-.030	22.5	.090	.370	-.590	.360	.060	.140
A146-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	13.9	1.52	-.280	.500	.270	1.58	.010	40.3	.140	.140	.700	3.29	-.430	.240	10.2	.690	.740	-.180	20.4	-.930	-.100	5.70	.080	-.310	-.470	.340	.080	.050
A160-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	14.5	2.13	-.120	.590	.290	1.39	-.030	37.1	.350	-.030	.730	1.07	-.320	.100	14.4	.380	1.09	-.020	11.0	-.180	-.010	4.99	.060	-.210	-.240	.840	.120	-.130

IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	9.14	-.970	3.99	-.130	8.79	-1.11	----	1.52	-.740	1.75	----	-2.45	6.74	----	.910	-2.04	-1.07	65.1	.080	.310	104	20.1	-1.84	2.74	2.55	1.60	-1.30
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	33.0	2.42	-.310	.460	.250	2.27	-.020	67.7	.330	.010	.760	15.5	-.560	.090	25.7	.420	.960	-.100	68.0	1.38	.110	37.9	.140	.150	-.270	.690	.170	-.100
TXA009WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	28.9	1.68	.630	.760	.420	127	.220	44.7	.580	.220	.990	4.80	.010	.700	22.4	.630	1.27	.130	79.8	-.470	-.030	71.3	.110	.580	-.210	.260	.300	.070
A504-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	28.8	1.73	-.850	.750	.390	68.3	.200	39.6	.580	.190	1.08	5.60	-.100	.170	14.3	.690	1.11	.290	65.0	.250	.040	49.1	.200	.470	-.840	.560	.270	.050

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A017 (SOIL) DATE : 01/20/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	25.5	2.65	-.100	.620	.300	4.36	.090	6.20	.530	.220	.430	-.190	.180	.610	13.2	.450	.910	.250	81.5	.780	.070	30.0	.100	.400	-.620	.440	.280	-1.56
MRLA2001	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2002	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.66	-.980	1.23	-.120	1.000	-3.60	----	1.71	-.350	1.26	----	-3.44	5.78	----	.880	-1.89	-.830	79.0	1.72	.040	77.0	21.2	1.07	2.35	1.97	1.66	1.26
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	37.9	1.83	.220	.650	.210	3.73	.070	82.6	.130	.140	.330	11.8	.130	.160	22.3	.510	.770	.080	77.6	-.300	.140	39.4	.100	.210	-.600	.870	.150	1.57
IPA030WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	26.4	1.92	.110	1.25	.400	4.12	.220	116	.530	.300	.640	5.05	.330	.430	20.4	.870	1.04	.250	65.9	.470	.000	53.4	.200	.420	-.570	.510	.270	3.41
A470-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A470-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	17.2	1.92	-.190	.980	.300	3.46	.060	114	.220	.030	.350	.800	.270	.130	10.7	.590	1.08	.010	41.1	.670	.040	31.9	.160	.530	-.780	.340	.100	4.18
A491-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	22.0	1.55	1.69	1.24	.310	3.18	.100	83.9	.470	.090	.520	4.28	.390	-.220	15.4	.480	1.05	.190	24.0	.370	.080	23.3	.120	.580	-.600	.630	.200	4.41
IPA032WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPA032WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA032WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A115-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	24.2	1.89	1.26	1.08	.330	4.60	.270	131	.410	.030	.750	4.85	-.410	-.090	11.4	.490	1.14	.270	57.6	-.430	.060	39.2	.190	1.09	-.360	.390	.340	4.87
A115-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A105-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A124-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	32.2	1.74	-.120	.980	.530	2.87	.240	67.9	.660	.170	1.08	5.28	.200	-.260	29.6	1.01	1.16	.290	49.8	-.190	.080	42.4	.240	.600	-.700	.570	.400	1.12
IPA031SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	14.1	2.28	-.150	.520	.200	2.08	-.010	43.0	.150	.130	.480	.170	-.830	.050	10.8	.390	.760	-.170	55.6	-.370	-.030	22.5	.090	.370	-.590	.360	.060	.140
A146-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	13.9	1.52	-.280	.500	.270	1.58	.010	40.3	.140	.140	.700	3.29	-.430	.240	10.2	.690	.740	-.180	20.4	-.930	-.100	5.70	.080	-.310	-.470	.340	.080	.050
A160-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A160-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	14.5	2.13	-.120	.590	.290	1.39	-.030	37.1	.350	-.030	.730	1.07	-.320	.100	14.4	.380	1.09	-.020	11.0	-.180	-.010	4.99	.060	-.210	-.240	.840	.120	-.130

7033

IPA035WB	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A752-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	9.14	-.970	3.99	-.130	8.79	-1.11	----	1.52	-.740	1.75	----	-2.45	6.74	----	.910	-2.04	-1.07	65.1	.080	.310	104	20.1	-1.84	2.74	2.55	1.60	-1.30
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	33.0	2.42	-.310	.460	.250	2.27	-.020	67.7	.330	.010	.760	15.5	-.560	.090	25.7	.420	.960	-.100	68.0	1.38	.110	37.9	.140	.150	-.270	.690	.170	-.100
TXA009WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	28.9	1.68	.630	.760	.420	127	.220	44.7	.580	.220	.990	4.80	.010	.700	22.4	.630	1.27	.130	79.8	-.470	-.030	71.3	.110	.580	-.210	.260	.300	.070
A504-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A504-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	28.8	1.73	-.850	.750	.390	68.3	.200	39.6	.580	.190	1.08	5.60	-.100	.170	14.3	.690	1.11	.290	65.0	.250	.040	49.1	.200	.470	-.840	.560	.270	.050

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A017001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8A017002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8A017003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8A017004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8A017005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8A017006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8A017007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8A017008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8A017009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8A017010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8A017011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8A017012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8A017013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8A017014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A017015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLA2001		ID8A017016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2002		ID8A017017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A017018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A017019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A017020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A017021			1	☒	LOD	None
22	9	2	9	1	QC	IPA030WB	1Al	ID8A017022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPA030WL		ID8A017023			1	☒	LCS	None
24	11	2	11	1	QC	IPA030WC		ID8A017024			1	☒	LCS	None
25	12	2	12	1	Unk	A126-01A		ID8A017025			1	☒	unk	—
26	13	2	1	2	Unk	A126-01		ID8A017026			1	☒	unk	—
27	14	2	2	2	Unk	A126-01J		ID8A017027			1	☒	unk	—
28	15	2	3	2	Unk	A126-02		ID8A017028			1	☒	unk	—
29	16	2	4	2	Unk	A126-03		ID8A017029			1	☒	unk	—
30	17	2	5	2	Unk	A126-04		ID8A017030			1	☒	unk	—
31	18	2	6	2	Blank	Blank		ID8A017031			1	☐		—
32	19	2	7	2	QC	CCV2		ID8A017032			1	☒	CCV	None
33	20	2	8	2	QC	CCB2		ID8A017033			1	☒	3XIDL	None
34	21	2	9	2	Unk	A470-01T	10X	ID8A017034			1	☒	unk	—
35	22	2	10	2	Unk	A470-02W		ID8A017035			1	☒	unk	—
36	23	2	11	2	Unk	A470-03W		ID8A017036			1	☒	unk	—
37	24	2	12	2	Unk	A470-04W		ID8A017037			1	☒	unk	—
38	25	2	1	3	Unk	A470-05W		ID8A017038			1	☒	unk	—
39	26	2	2	3	Blank	Blank		ID8A017039			1	☐		—

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	QC	CCV3		ID8A017040			1	☒	CCV	None
41	28	2	4	3	QC	CCB3		ID8A017041			1	☒	3XIDL	None
42	29	2	5	3	Unk	A491-01T	10X	ID8A017042			1	☒	unk	—
43	30	2	6	3	Unk	A491-02T	10X	ID8A017043			1	☒	unk	—
44	31	2	7	3	Unk	A491-03T	10X	ID8A017044			1	☒	unk	—
45	32	2	8	3	Unk	A491-04T	100X	ID8A017045			1	☒	unk	—
46	33	2	9	3	Unk	A491-05T	10X	ID8A017046			1	☒	unk	—
47	34	2	10	3	Unk	A491-06W		ID8A017047			1	☒	unk	—
48	35	2	11	3	Unk	A491-07T	100X	ID8A017048			1	☒	unk	—
49	36	2	12	3	Unk	A491-08T	10X	ID8A017049			1	☒	unk	—
50	37	2	1	4	Unk	A491-09T	10X	ID8A017050			1	☒	unk	—
51	38	2	2	4	Blank	Blank		ID8A017051			1	☐		—
52	39	2	3	4	QC	CCV4		ID8A017052			1	☒	CCV	None
53	40	2	4	4	QC	CCB4		ID8A017053			1	☒	3XIDL	None
54	41	2	5	4	QC	IPA032WB		ID8A017054			1	☒	1/2LOQ	None
55	42	2	6	4	QC	IPA032WL		ID8A017055			1	☒	LCS	None
56	43	2	7	4	QC	IPA032WC		ID8A017056			1	☒	LCS	None
57	44	2	8	4	Unk	A115-02A		ID8A017057			1	☒	unk	—
58	45	2	9	4	Unk	A115-02		ID8A017058			1	☒	unk	—
59	46	2	10	4	Unk	A115-02J		ID8A017059			1	☒	unk	—
60	47	2	11	4	Unk	A115-02M		ID8A017060			1	☒	unk	—
61	48	2	12	4	Unk	A115-02S		ID8A017061			1	☒	unk	—
62	49	2	1	5	Unk	A115-01		ID8A017062			1	☒	unk	—
63	50	2	2	5	Blank	Blank		ID8A017063			1	☐		—
64	51	2	3	5	QC	CCV5		ID8A017064			1	☒	CCV	None
65	52	2	4	5	QC	CCB5		ID8A017065			1	☒	3XIDL	None
66	53	2	5	5	Unk	A115-03		ID8A017066			1	☒	unk	—
67	54	2	6	5	Unk	A105-02		ID8A017067			1	☒	unk	—
68	55	2	7	5	Unk	A124-02		ID8A017068			1	☒	unk	—
69	56	2	8	5	Unk	A124-02M		ID8A017069			1	☒	unk	—
70	57	2	9	5	Unk	A124-02S		ID8A017070			1	☒	unk	—
71	58	2	10	5	Unk	A124-03		ID8A017071			1	☒	unk	—
72	59	2	11	5	Unk	A124-04		ID8A017072			1	☒	unk	—
73	60	2	12	5	Unk	A160-19		ID8A017073			1	☒	unk	—
74	61	3	1	1	Blank	Blank		ID8A017074			1	☐		—
75	62	3	2	1	QC	CCV6		ID8A017075			1	☒	CCV	None
76	63	3	3	1	QC	CCB6		ID8A017076			1	☒	3XIDL	None
77	86	3	2	3	QC	IPA031SB	Zn 0.03315 ppm	ID8A017077			1	☒	1/2LOQ	None
78	87	3	3	3	QC	IPA031SL		ID8A017078			1	☒	LCS	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	88	3	4	3	QC	IPA031SC		ID8A017079			1	☒	LCS	None
80	89	3	5	3	Unk	A146-07A		ID8A017080			1	☒	unk	---
81	90	3	6	3	Unk	A146-07		ID8A017081			1	☒	unk	---
82	91	3	7	3	Unk	A146-07J		ID8A017082			1	☒	unk	---
83	92	3	8	3	Unk	A146-07M		ID8A017083			1	☒	unk	---
84	93	3	9	3	Unk	A146-07S		ID8A017084			1	☒	unk	---
85	94	3	10	3	Unk	A146-01		ID8A017085			1	☒	unk	---
86	95	3	11	3	Blank	Blank		ID8A017086			1	☐		---
87	96	3	12	3	QC	CCV7		ID8A017087			1	☒	CCV	None
88	97	3	1	4	QC	CCB7	TH 1/21/11	ID8A017088			1	☒	3XIDL	None
89	98	3	2	4	Unk	A146-02	Zn ~~0.0~~ 0.252 ppm	ID8A017089			1	☒	unk	---
90	99	3	3	4	Unk	A146-03		ID8A017090			1	☒	unk	---
91	100	3	4	4	Unk	A146-04		ID8A017091			1	☒	unk	---
92	101	3	5	4	Unk	A146-05		ID8A017092			1	☒	unk	---
93	102	3	6	4	Unk	A146-06		ID8A017093			1	☒	unk	---
94	103	3	7	4	Unk	A158-01		ID8A017094			1	☒	unk	---
95	104	3	8	4	Unk	A158-02		ID8A017095			1	☒	unk	---
96	105	3	9	4	Unk	A158-03		ID8A017096			1	☒	unk	---
97	106	3	10	4	Unk	A160-10		ID8A017097			1	☒	unk	---
98	107	3	11	4	Blank	Blank		ID8A017098			1	☐		---
99	108	3	12	4	QC	CCV8		ID8A017099			1	☒	CCV	None
100	109	3	1	5	QC	CCB8		ID8A017100			1	☒	3XIDL	None
101	110	3	2	5	Unk	A160-11		ID8A017101			1	☒	unk	---
102	111	3	3	5	Unk	A160-12		ID8A017102			1	☒	unk	---
103	112	3	4	5	Unk	A160-13		ID8A017103			1	☒	unk	---
104	113	3	5	5	Unk	A160-14		ID8A017104			1	☒	unk	---
105	114	3	6	5	Unk	A160-15		ID8A017105			1	☒	unk	---
106	115	3	7	5	Unk	A160-16		ID8A017106			1	☒	unk	---
107	116	3	8	5	Unk	A160-17		ID8A017107			1	☒	unk	---
108	117	3	9	5	Unk	A160-18		ID8A017108			1	☒	unk	---
109	118	3	10	5	Blank	Blank		ID8A017109			1	☐		---
110	119	3	11	5	QC	CCV9		ID8A017110			1	☒	CCV	None
111	120	3	12	5	QC	CCB9		ID8A017111			1	☒	3XIDL	None
112	121	4	1	1	QC	IPA035WB		ID8A017112			1	☒	1/2LOQ	None
113	122	4	2	1	QC	IPA035WL		ID8A017113			1	☒	LCS-200.7	None
114	123	4	3	1	QC	IPA035WC		ID8A017114			1	☒	LCS-200.7	None
115	124	4	4	1	Unk	A752-01A		ID8A017115			1	☒	unk	---
116	125	4	5	1	Unk	A752-01		ID8A017116			1	☒	unk	---
117	126	4	6	1	Unk	A752-01J		ID8A017117			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	127	4	7	1	Blank	Blank		ID8A017118			1	☐		—
119	128	4	8	1	QC	ICSA2		ID8A017119			1	☒	ICSA	None
120	129	4	9	1	QC	ICSAB2		ID8A017120			1	☒	ICSAB	None
121	130	4	10	1	QC	CCV10		ID8A017121			1	☒	CCV	None
122	131	4	11	1	QC	CCB10		ID8A017122			1	☒	3XIDL	None
123	64	3	4	1	QC	TXA009WB	TCLP	ID8A017123			1	☒	1/2LOQ	None
124	65	3	5	1	Unk	A504-04A	TCLP	ID8A017124			1	☒	unk	—
125	66	3	6	1	Unk	A504-04	TCLP	ID8A017125			1	☒	unk	—
126	67	3	7	1	Unk	A504-04J	TCLP	ID8A017126			1	☒	unk	—
127	68	3	8	1	Unk	A504-04M	TCLP	ID8A017127			1	☒	unk	—
128	69	3	9	1	Unk	A504-04S	TCLP	ID8A017128			1	☒	unk	—
129	70	3	10	1	Unk	A504-01	TCLP	ID8A017129			1	☒	unk	—
130	71	3	11	1	Unk	A504-02	TCLP	ID8A017130			1	☒	unk	—
131	72	3	12	1	Unk	A504-03	TCLP	ID8A017131			1	☒	unk	—
132	73	3	1	2	Blank	Blank		ID8A017132			1	☐		—
133	74	3	2	2	QC	CCV11		ID8A017133			1	☒	CCV	None
134	75	3	3	2	QC	CCB11		ID8A017134			1	☒	3XIDL	None
135	76	3	4	2	Unk	A504-05	TCLP	ID8A017135			1	☒	unk	—
136	77	3	5	2	Unk	A504-06	TCLP	ID8A017136			1	☒	unk	—
137	78	3	6	2	Unk	A504-04A	5X TCLP	ID8A017137			1	☒	unk	—
138	79	3	7	2	Unk	A504-04T	5X TCLP	ID8A017138			1	☒	unk	—
139	80	3	8	2	Unk	A504-04J	25X TCLP	ID8A017139			1	☒	unk	—
140	81	3	9	2	Unk	A504-04G	5X TCLP	ID8A017140			1	☒	unk	—
141	82	3	10	2	Unk	A504-04H	5X TCLP	ID8A017141			1	☒	unk	—
142	83	3	11	2	Blank	Blank		ID8A017142			1	☐		—
143	84	3	12	2	QC	CCV12		ID8A017143			1	☒	CCV	None
144	85	3	1	3	QC	CCB12		ID8A017144			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00157	.00002	-.00001	.00029	.00013	.00057	-.00003	.00054	.00000	-.00098	Blank
2	S20					.89466		.12766				S20
3	S21					8.5536		1.1485				S21
4	S22				.47690						.16497	S22
5	S23				4.7096						1.7267	S23
6	S24						.09875					S24
7	S25						1.0232					S25
8	S26	.27455							.80209	.14093		S26
9	S27	10.024							7.5992	1.3518		S27
10	S28		.00504									S28
11	S29		.05050									S29
12	S30			.00137								S30
13	S31			.00552								S31
14	ICV	108.21	1.5907	1.0542	2.0014	1.5525	2.4994	2.0678	76.139	2.4695	.93849	ICV
15	ICB	.02552	.00265	-.00010	.00062*	.00030	.00436	.00009	.00620	.00053*	.00022*	ICB
16	MRLA2001	.22433	.10670	.01055	.01044	.01017	.00847	.01051	1.0290	.01060	.00928	MRLA2001
17	MRLA2002	.22625	.05468	.01009	.00519	.00430	.09533	.00531	.52094	.01064	.00925	MRLA2002
18	ICSA1	403.35	.00866	-.00098	.00123	-.00012	.00100	-.00360	488.35	.00171	-.00035	ICSA1
19	ICSAB1	400.62	1.1017	1.0561	.53397	.50477	.51061	.97008	477.92	.47953	.46735	ICSAB1
20	CCV1	107.73	1.5697	1.0347	1.9771	1.5463	2.4827	2.0416	76.920	2.4552	.92325	CCV1
21	CCB1	.03789*	.00183	.00022	.00065	.00021	.00373	.00007	.08257	.00013	.00014	CCB1
22	IPA030WB	.12862*	.00068	.00040	.00143	.00014	.00267	.00004	.24395	.00032	.00012	IPA030WB
23	IPA030WL	5.7444	2.7425	.53741	.51853	.51648	.50573	.53370	50.762	.51804	.49313	IPA030WL
24	IPA030WC	5.7345	2.8200	.54195	.51607	.51855	.51995	.53514	52.005	.51674	.49431	IPA030WC
25	A126-01A	6.1513	2.6980	1.2977	.73257	.55075	.70506	.55322	73.995	.53722	.52286	A126-01A
26	A126-01	.04083	.00155	.73749	.19386	.00020	.20412	-.00011	24.810	.00117	.00168	A126-01
27	A126-01J	.01068	.00043	.14131	.03873	-.00003	.04057	-.00015	5.0932	.00026	.00028	A126-01J
28	A126-02	.44451	-.02567	6.7643	.07092	-.00002	.22405	-.00017	9.7909	.00071	.00123	A126-02
29	A126-03	.19643	-.01758	4.7751	.29058	-.00011	.33249	-.00026	31.215	.00150	.00201	A126-03
30	A126-04	.04641	-.07582	20.313	.08272	-.00010	.30557	-.00022	24.919	.00116	.00101	A126-04
31	Blank	.00456	.00019	.00349	.00015	-.00007	.00081	-.00014	.02586	.00004	.00005	Blank
32	CCV2	106.42	1.5816	1.0399	1.9815	1.5431	2.4853	2.0356	76.526	2.4423	.92452	CCV2
33	CCB2	.02635	.00192	.00011	.00125*	.00040	.00412	.00022*	.11455	.00053*	.00030*	CCB2
34	A470-01T	.22487	.00023	.01139	.02422	.00008	.01643	.00699	2.6832	.00651	.00055	A470-01T
35	A470-02W	36.737	.00226	.00558	.15395	.00039	.04111	.06891	35.909	.01416	.00878	A470-02W
36	A470-03W	33.567	.00756	.00606	.50657	.00038	.03525	.56160	39.529	.04832	.00968	A470-03W
37	A470-04W	1.9741	.00165	.00671	.13714	.00000	.04249	.00020	25.000	.01711	.00183	A470-04W
38	A470-05W	2.8219	.00053	.00539	.20510	-.00004	.01202	-.00040	44.512	.00885	.00756	A470-05W
39	Blank	.00444	.00078	.00023	.00004	-.00006	-.00028	-.00016	.01970	-.00002	.00009	Blank
40	CCV3	107.07	1.5871	1.0402	1.9928	1.5360	2.4722	2.0331	75.672	2.4234	.92861	CCV3
41	CCB3	.01718	.00192	-.00019	.00098*	.00030	.00346	.00006	.11439	.00022	.00003	CCB3
42	A491-01T	3.0056	.01268	.00636	1.5079	-.00001	.01589	.00939	173.03	.73516	.10992	A491-01T
43	A491-02T	4.6338	.02235	.00097	6.1108	-.00006	.01030	.00329	65.942	.68959	.04873	A491-02T
44	A491-03T	2.5560	.05665	.00963	.07939	-.00010	.01374	.00228	61.144	.29201	.05262	A491-03T
45	A491-04T	.12149	.00708	.00765	.71361	-.00008	.00131	.03156	4.8111	.03958	.00424	A491-04T
46	A491-05T	1.3065	.01411	.01238	4.0294	-.00008	.01658	.01439	141.35	.10798	.03953	A491-05T
47	A491-06W	3.9146	.75701	.00737	1.7750	.00004	.04616	.02894	102.52	.29902	.49120	A491-06W
48	A491-07T	.13735	.05121	.00583	.74712	-.00010	.00145	.02462	2.9950	.03567	.00643	A491-07T
49	A491-08T	3.8655	1.3269	.00031	.70466	-.00006	.01405	.01220	133.45	.67486	.14731	A491-08T
50	A491-09T	1.6009	2.8325	.00422	.93382	-.00006	.02531	.00731	149.07	.58373	.08566	A491-09T
51	Blank	.00579	.00385	.00086	.00188	-.00001	-.00044	-.00007	.08147	.00023	.00003	Blank
52	CCV4	108.95	1.5780	1.0414	2.0030	1.5574	2.4777	2.0273	76.719	2.4445	.92736	CCV4
53	CCB4	.02204	.00155	.00169*	.00124*	.00031	.00318	.00010*	.08389	.00047	.00009	CCB4
54	IPA032WB	.01521	.00142	-.00044	.00052	.00006	.00079	-.00002	.00363	.00027	.00005	IPA032WB

55	IPA032WL	5.6434	2.7284	.52942	.50740	.52238	.50635	.52325	50.303	.50459	.48036	IPA032WL
56	IPA032WC	5.6921	2.7753	.53905	.50858	.52586	.51252	.53083	52.703	.51026	.48453	IPA032WC
57	A115-02A	6.1321	2.7225	.57526	.59949	.55815	.53788	.55328	74.376	.53489	.51019	A115-02A
58	A115-02	.01967	.00328	-.00063	.05924	.00020	.02739	.00013	24.238	.00284	-.00015	A115-02
59	A115-02J	.00202	.00049	-.00002	.01796	-.00008	.00510	-.00016	4.8458	.00059	-.00014	A115-02J
60	A115-02M	5.6611	2.7700	.53861	.51387	.52567	.51405	.52528	50.830	.50703	.48690	A115-02M
61	A115-02S	5.7261	2.7952	.53626	.51889	.53233	.52065	.52464	51.878	.50874	.48910	A115-02S
62	A115-01	.01967	.00360	.00021	.04578	.00022	.02944	.00014	22.061	.00469	-.00004	A115-01
63	Blank	-.00140	.00090	-.00029	.00031	-.00009	-.00139	-.00012	-.00431	-.00001	-.00002	Blank
64	CCV5	108.51	1.6178	1.0447	2.0377	1.5671	2.5008	2.0018	77.400	2.4223	.92923	CCV5
65	CCB5	.02424	.00189	.00126*	.00108*	.00033	.00460	.00027*	.13130	.00041	.00003	CCB5
66	A115-03	.03020	.00137	-.00156	.03933	.00008	.02650	.00010	17.372	.00414	-.00025	A115-03
67	A105-02	.02109	.00110	.03867	.34839	-.00006	1.4752	-.00021	36.015	.00155	.00588	A105-02
68	A124-02	.01832	.00053	.00389	.09459	-.00008	.05656	-.00008	65.825	.00847	-.00031	A124-02
69	A124-02M	5.8848	2.8502	.54488	.53166	.53313	.52309	.51982	53.438	.51225	.49218	A124-02M
70	A124-02S	6.0255	2.9375	.55676	.54434	.55304	.53684	.53464	53.448	.51834	.50040	A124-02S
71	A124-03	.02124	.00360	.00272	.09435	.00022	.05501	.00004	66.634	.00891	-.00029	A124-03
72	A124-04	.01246	.00084	.00213	.08784	-.00008	.05549	-.00010	66.417	.00682	-.00047	A124-04
73	A160-19	.00978	.00041	.00085	.00063	-.00006	-.00276	-.00011	.13031	.00013	.00002	A160-19
74	Blank	-.00073	.00047	.00044	.00023	-.00008	-.00191	-.00020	.01497	-.00003	-.00003	Blank
75	CCV6	109.70	1.6318	1.0440	2.0612	1.5704	2.5185	1.9777	77.275	2.4082	.93782	CCV6
76	CCB6	.03218	.00174	-.00012	.00098*	.00053	.00287	.00024*	.06789	.00066*	.00017	CCB6
77	IPA031SB	.02126	.00201	-.00201	.00106	.00028	-.00020	-.00019	.15509	.00054	-.00003	IPA031SB
78	IPA031SL	5.6043	2.7921	.52527	.53938	.54152	.49468	.51328	53.957	.51890	.50975	IPA031SL
79	IPA031SC	5.6152	2.7716	.52322	.53825	.54111	.49040	.50962	55.019	.52006	.51232	IPA031SC
80	A146-07A	83.488	2.5875	.59568	1.4171	.55315	.47668	.50695	72.360	.64787	.57771	A146-07A
81	A146-07	78.870	.01100	.06213	.89822	.00631	.01465	.00466	22.576	.13660	.05891	A146-07
82	A146-07J	15.955	.00246	.01262	.17989	.00117	.00187	.00067	4.5992	.02773	.01159	A146-07J
83	A146-07M	127.93	2.5250	.57276	1.7231	.52248	.44971	.48046	73.528	.69315	.57442	A146-07M
84	A146-07S	122.81	2.6085	.56622	1.5764	.54321	.47473	.49511	75.079	.63222	.56433	A146-07S
85	A146-01	89.021	.01095	.06937	1.3210	.00839	.01734	-.00020	30.561	.13113	.07524	A146-01
86	Blank	.05887	.00167	-.00018	.00097	-.00006	-.00160	-.00011	.04166	.00020	.00015	Blank
87	CCV7	111.24*	1.6471	1.0550	2.0624	1.5799	2.5231	2.0076	78.080	2.4274	.93652	CCV7
88	CCB7	.01406	.00228	-.00015	.00052*	.00020	.00208	-.00001	.04299	.00015	.00013	CCB7
89	A146-02	108.44	.00674	.06299	1.6496	.00825	.01511	-.00155	29.347	.13597	.15847	A146-02
90	A146-03	69.730	.00764	.04332	.72754	.00575	.01897	.08181	31.584	.10353	.03861	A146-03
91	A146-04	82.613	.00744	.06898	.91125	.00780	.01291	.00961	21.613	.18466	.05668	A146-04
92	A146-05	59.184	.00664	.04638	.87024	.00470	.01591	.02312	20.854	.10807	.04219	A146-05
93	A146-06	63.813	.00591	.04274	.80888	.00517	.01422	.02145	21.297	.10045	.03999	A146-06
94	A158-01	40.374	.00181	.03722	.43558	.00273	.02163	-.00004	157.26	.07004	.02217	A158-01
95	A158-02	43.495	.00236	.03676	.39566	.00295	.01871	-.00026	76.717	.07798	.02814	A158-02
96	A158-03	56.728	.00256	.04004	.58346	.00447	.02222	.00001	84.500	.09179	.04653	A158-03
97	A160-10	34.027	.07807	.00728	.34798	.00089	.00891	-.00032	6.5771	.05702	.00788	A160-10
98	Blank	.02241	-.00044	.00004	.00020	-.00007	-.00251	-.00019	.03009	.00000	.00011	Blank
99	CCV8	112.60*	1.6613*	1.0624	2.0780	1.5912	2.5252	2.0183	78.661	2.4374	.93504	CCV8
100	CCB8	.01388	.00152	-.00028	.00050*	.00027	.00158	.00001	.04031	.00014	.00014	CCB8
101	A160-11	38.144	.07223	.00916	.35269	.00117	.01193	-.00010	6.7662	.05956	.00803	A160-11
102	A160-12	43.947	.13960	.00868	.43572	.00151	.01728	.00040	6.9566	.07821	.00742	A160-12
103	A160-13	53.349	.17101	.02470	.18647	.00134	.01493	-.00094	5.9920	.09483	.00810	A160-13
104	A160-14	37.163	.12608	.03634	.24432	.00084	.01178	-.00050	8.9828	.05743	.00710	A160-14
105	A160-15	74.331	.02575	.01852	.31822	.00225	.01383	-.00117	3.8482	.11587	.01560	A160-15
106	A160-16	38.058	.01211	.01201	.12031	.00091	.00829	-.00070	9.5389	.06827	.00711	A160-16
107	A160-17	43.096	.01220	.01467	.18226	.00114	.00727	-.00103	4.4721	.07553	.00785	A160-17
108	A160-18	42.159	.00177	.01343	.24603	.00088	.01068	-.00076	7.0121	.06595	.00821	A160-18
109	Blank	.02454	.00037	.00041	.00006	-.00013	-.00259	-.00020	.01684	-.00003	-.00002	Blank
110	CCV9	112.04*	1.6488	1.0632	2.0704	1.5951	2.5305	2.0255	79.128	2.4470	.93311	CCV9
111	CCB9	.01447	.00213	-.00012	.00059*	.00029	.00139	-.00003	.03713	.00035	-.00003	CCB9

112	IPA035WB	.00285	.00027	.00056	.00027	-.00011	-.00003	-.00011	-.01187	-.00003	.00014	IPA035WB
113	IPA035WL	5.9007*	2.8387	.54089	.52767	.53813	.52967	.52325	52.206	.50712	.48313	IPA035WL
114	IPA035WC	5.9621*	2.8886*	.55341	.53332	.54330	.53519	.53151	52.296	.51230	.48711	IPA035WC
115	A752-01A	6.5782	2.8881	.60828	.62102	.57083	.90920	.54965	143.71	.53513	.51856	A752-01A
116	A752-01	.02644	.00442	-.00047	.05670	.00021	.38780	-.00010	94.445	.00091	-.00001	A752-01
117	A752-01J	.00693	.00179	-.00023	.01135	-.00005	.07182	-.00014	18.922	.00031	-.00005	A752-01J
118	Blank	.00134	.00148	.00009	.00006	-.00010	-.00115	-.00020	.02614	.00001	-.00001	Blank
119	ICSA2	425.00	.00914	-.00097	.00399	-.00013	.00879	-.00111	493.84	.00152	-.00074	ICSA2
120	ICSA82	424.36	1.1693	1.0901	.56151	.52170	.53251	.96127	492.37	.47702	.47018	ICSAB2
121	CCV10	111.90*	1.6536*	1.0591	2.0805	1.5882	2.5318	2.0071	78.835	2.4316	.93452	CCV10
122	CCB10	.03302	.00242	-.00031	.00046*	.00025	.00227	-.00002	.06773	.00033	.00001	CCB10
123	TXA009WB	.03880	.00053	.00060	.00093	-.00004	.00056	-.00008	.08885	.00006	.00007	TXA009WB
124	A504-04A	6.3537	2.8185	.59238	.60809	.56930	71.596*	.54927	51.011	.56428	.52023	A504-04A
125	A504-04	.03534	.01231	.00383	.05460	.00011	72.906*	-.00042	.37196	.03172	-.00006	A504-04
126	A504-04J	.00706	.00267	.00132	.01118	-.00001	15.248*	-.00018	.06095	.00632	.00005	A504-04J
127	A504-04M	6.0465	2.9345	.56436	.58663	.53706	70.121*	.52316	51.805	.54872	.48665	A504-04M
128	A504-04S	5.8770	2.8251	.54855	.57998	.52671	69.762*	.50608	50.785	.53410	.47668	A504-04S
129	A504-01	.02837	.01208	.00405	.04526	.00013	62.145*	-.00033	.36602	.01754	.00006	A504-01
130	A504-02	.02607	.01113	.00351	.04782	-.00008	68.817*	-.00046	.36421	.01883	.00008	A504-02
131	A504-03	.02314	.01113	.00466	.05226	-.00012	67.992*	-.00045	.32894	.01520	.00001	A504-03
132	Blank	.00125	.00069	.00109	.00059	-.00004	.29108	-.00017	.07326	.00003	-.00004	Blank
133	CCV11	111.02*	1.6438	1.0536	2.0595	1.5826	2.7209	2.0140	78.071	2.4351	.93279	CCV11
134	CCB11	.02891	.00168	.00063	.00076*	.00042	.12710*	.00022*	.04467	.00058*	.00022*	CCB11
135	A504-05	.05920	.01115	.00370	.06033	.00002	68.880*	-.00038	.72770	.02999	.00016	A504-05
136	A504-06	.02580	.00931	.00383	.04949	-.00008	64.742*	-.00038	.29676	.03448	-.00009	A504-06
137	A504-04A	6.2742	2.7913	.58332	.57294	.57482	16.444*	.55505	51.450	.54766	.51893	A504-04A
138	A504-04T	.00893	.00402	.00056	.01142	.00006	15.589*	-.00016	.07535	.00638	-.00002	A504-04T
139	A504-04J	.01786	.00242	-.00022	.00788	.00018	3.0907	.00020	.14987	.00193	.00028	A504-04J
140	A504-04G	1.1406	.56017	.10710	.11718	.10800	14.702*	.10606	10.556	.11035	.09583	A504-04G
141	A504-04H	1.1273	.55344	.10691	.11787	.10713	14.768*	.10522	10.462	.10953	.09531	A504-04H
142	Blank	.00219	.00142	.00048	.00013	-.00005	.11270	-.00020	.02085	.00010	.00004	Blank
143	CCV12	111.91*	1.6472	1.0561	2.0629	1.5774	2.6154	2.0075	77.389	2.4284	.93267	CCV12
144	CCB12	.02877	.00173	-.00085	.00075*	.00039	.06826*	.00020*	.03958	.00058*	.00019	CCB12
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00150	.00003	-.00012	.00004	.00000	.00003	.00002	-.00058	-.00017	.00001	Blank
2	S20			.19724			.11216					S20
3	S21			1.9317			1.0904					S21
4	S22	.37629	.05470									S22
5	S23	3.7362	2.1459									S23
6	S24							.78250				S24
7	S25							7.8114				S25
8	S26								.83419	.31223		S26
9	S27								7.6462	3.1621		S27
10	S28					.09714						S28
11	S29					.40394						S29
12	S30				.02758						.00153	S30
13	S31				.13557						.00612	S31
14	ICV	2.5221	24.539	2.4894	.52588	60.281	2.4142	2.5066	2.5546	58.955	1.0510	ICV
15	ICB	.00043	-.00019	.00018	.00061	.01323	.00045	.00091*	.00025	.08149	.00078	ICB
16	MRLA2001	.01025	.20808	.01043	.01019	.99119	.01014	.01043	.01035	.98823	.01022	MRLA2001
17	MRLA2002	.01050	.10322	.00246	.09954	.19778	.00525	.01026	.01063	.97655	.01035	MRLA2002
18	ICSA1	.00126	187.60	-.00344	.00578	200.79	.00088	-.00189	-.00083	.07900	.00172	ICSA1
19	ICSAB1	.52799	186.25	.96011	1.1177	201.38	.47414	1.0195	.99914	78.612	1.0452	ICSAB1
20	CCV1	2.4800	23.992	2.4559	.52300	60.617	2.4107	2.4642	2.5114	58.946	1.0265	CCV1
21	CCB1	.00033	.01185	.00013	.00016	.02231	.00051	.00077	.00008	.07755	-.00030	CCB1
22	IPA030WB	.00073	.06116	-.00003	.00016	.06042	.00061	.00040	.00020	.07874	-.00017	IPA030WB
23	IPA030WL	.52476	5.2606	.51934	.57324	50.628	.50301	.52386	.53524	49.998	.52471	IPA030WL
24	IPA030WC	.52224	5.2288	.52022	.51127	51.584	.50266	.53713	.53648	51.105	.53210	IPA030WC
25	A126-01A	.55625	8.4148	.54534	.00265	66.564	5.2437	.51759	.56221	51.746	.56609	A126-01A
26	A126-01	.00130	3.1511	.00086	.00142	17.298	4.9396	.00256	.00110	1.3959	.00084	A126-01
27	A126-01J	.00022	.63846	-.00029	.00031	3.5048	1.0142	.00054	-.00006	.30665	-.00043	A126-01J
28	A126-02	.00220	.37098	.00086	.00084	7.1148	1.2397	.00879	.00137	1.3544	.00054	A126-02
29	A126-03	.00170	4.1548	.00124	.00086	21.546	7.9780	.01700	.00237	1.6823	-.00046	A126-03
30	A126-04	.00260	3.5525	.00096	.00061	13.314	3.8538	.01965	.00273	.90628	.00055	A126-04
31	Blank	.00004	.00042	.00040	.00014	.01587	.00224	.00013	-.00006	.02204	.00035	Blank
32	CCV2	2.4779	23.736	2.4608	.52469	60.087	2.3984	2.4736	2.5136	59.047	1.0297	CCV2
33	CCB2	.00064	.00505	.00033	.00043	.02044	.00087*	.00104*	.00025	.06595	.00047	CCB2
34	A470-01T	5.6015	1.9359	.00490	-.00020	.46532	.02500	.00056	.00115	.27881	.00098	A470-01T
35	A470-02W	1.9986	49.840	.01452	.00946	3.1626	.31175	.00214	.01450	9.2519	.01011	A470-02W
36	A470-03W	.18020	128.53	.04055	.01656	12.679	6.5463	.00892	.04256	10.002	.00743	A470-03W
37	A470-04W	.23532	5.3578	.03121	.00024	1.7756	.23207	.00104	.00851	1.2030	.01074	A470-04W
38	A470-05W	.07973	22.800	.02802	.00098	1.4892	.71413	.00081	.00662	1.1716	.00777	A470-05W
39	Blank	.00008	.00439	-.00091	.00014	-.00404	.00003	.00007	-.00020	-.00742	-.00100	Blank
40	CCV3	2.4970	23.683	2.4691	.52260	59.558	2.3856	2.4866	2.5251	58.888	1.0425	CCV3
41	CCB3	.00035	.00080	.00027	.00013	.01067	.00059*	.00108*	.00001	.04114	.00067	CCB3
42	A491-01T	.01196	3.5053	8.0107	.00510	1.9912	.07221	.00084	.00294	.25331	-.00137	A491-01T
43	A491-02T	.05741	3.3079	4.4911	.00239	1.6292	.03309	.00048	.00306	.13140	.00147	A491-02T
44	A491-03T	.00739	1.5624	5.2047	.00127	.61024	.02443	.00060	.00240	.15117	-.00144	A491-03T
45	A491-04T	.00297	.27322	18.214	-.00034	.15513	.01342	.00006	-.00010	.03575	-.00006	A491-04T
46	A491-05T	.05247	3.6716	5.7121	.00291	2.6763	.09269	.00025	.01321	.22920	-.00074	A491-05T
47	A491-06W	.20157	76.861	3.2070	.01908	8.3474	.16508	.01629	.03137	1.3718	.00351	A491-06W
48	A491-07T	.00677	.56316	20.388	-.00009	.16762	.01663	-.00004	.00002	.03077	.00026	A491-07T
49	A491-08T	.01400	2.2580	10.483	.00579	2.5437	.06162	.00044	.00193	.19450	-.00028	A491-08T
50	A491-09T	.07026	4.6785	4.2398	.00449	2.8326	.10134	.00231	.00525	.91931	-.00072	A491-09T
51	Blank	.00019	.00266	.01687	.00023	.00319	.00025	.00013	-.00001	-.00538	-.00054	Blank
52	CCV4	2.5074	23.932	2.4550	.52612	60.699	2.4093	2.4897	2.5214	59.078	1.0343	CCV4
53	CCB4	.00052	.00428	.00039	-.00022	.01545	.00048	.00105*	.00019	.02399	.00037	CCB4
54	IPA032WB	.00057	.00582	.00007	-.00004	.00779	.00057	.00045	-.00011	-.00062	-.00014	IPA032WB

55	IPA032WL	.51335	5.1148	.51119	.00048*	50.059	.49329	.51487	.52254	48.420	.52673	IPA032WL
56	IPA032WC	.51761	5.1669	.51621	.00007*	51.557	.50673	.51979	.52751	48.470	.53559	IPA032WC
57	A115-02A	.54983	5.3865	.54149	.00189	63.370	.53120	.50743	.55267	51.618	.57233	A115-02A
58	A115-02	.00108	.00054	.00018	.00122	13.423	.00053	.00022	.00171	2.0785	.00010	A115-02
59	A115-02J	.00017	-.00145	-.00030	.00055	2.6677	-.00010	.00011	.00007	.42619	.00005	A115-02J
60	A115-02M	.51793	5.0952	.51825	.00023	49.951	.49699	.51982	.52853	49.483	.53160	A115-02M
61	A115-02S	.52151	5.0953	.51952	-.00019	51.031	.50093	.52702	.53079	50.053	.53177	A115-02S
62	A115-01	.00647	.00689	.00244	.00154	10.425	.00353	.00058	.02074	2.1833	.00090	A115-01
63	Blank	.00015	-.00045	-.00081	-.00014	.00285	-.00019	.00014	-.00011	.01719	-.00007	Blank
64	CCV5	2.5193	23.457	2.4716	.53351	60.582	2.4114	2.5151	2.5320	60.018	1.0407	CCV5
65	CCB5	.00075	.00485	-.00041	-.00009	.01136	.00049	.00114*	.00027	.05757	-.00043	CCB5
66	A115-03	.00147	.00824	.00003	.00084	8.8209	.00032	.00036	.00095	1.7133	.00154	A115-03
67	A105-02	.00122	5.1496	.00090	.04474	72.678	7.2903	.00274	.01357	1.0975	-.00113	A105-02
68	A124-02	.00114	.00328	.00018	.03187	12.798	.00329	.00327	-.00023	2.2463	.00136	A124-02
69	A124-02M	.52986	5.0746	.52262	.00006	52.053	.50772	.53407	.54186	52.030	.53766	A124-02M
70	A124-02S	.54300	5.1610	.53255	.00044	52.135	.51402	.54423	.54382	51.964	.55541	A124-02S
71	A124-03	.00185	.01279	.00046	.03232	13.001	.00068	.00374	-.00006	2.3078	.00026	A124-03
72	A124-04	.00135	.27861	.00088	.03261	13.014	.01597	.00327	.00214	2.3236	.00134	A124-04
73	A160-19	.00064	.00446	-.00065	.00021	.00656	.00013	.00017	.00011	.03099	-.00035	A160-19
74	Blank	.00036	-.00360	-.00090	.00041	-.00354	.00002	.00011	-.00028	.00768	-.00074	Blank
75	CCV6	2.5508	23.225	2.4904	.54020	60.071	2.4079	2.5457	2.5507	60.629	1.0455	CCV6
76	CCB6	.00108	.00528	.00020	-.00026	.02962	.00101*	.00116*	.00029	.04976	-.00019	CCB6
77	IPA031SB	.00076	.01079	-.00004	-.00013	.01810	.00068	.00058	.00026	.06249	.00092	IPA031SB
78	IPA031SL	.53109	5.0503	.52496	.00009*	52.243	.51088	.56878	.55050	51.994	.51492	IPA031SL
79	IPA031SC	.53166	5.0677	.52665	-.00013*	52.767	.51560	.56943	.55319	52.528	.51207	IPA031SC
80	A146-07A	.60249	129.45	.74003	.03115	54.251	3.8953	.53587	.60634	53.278	.53199	A146-07A
81	A146-07	.05576	129.99	.21827	.02991	5.5912	3.5190	.00580	.04863	3.7774	.00707	A146-07
82	A146-07J	.01117	26.899	.04387	.00525	1.1491	.71916	.00105	.00917	.74551	.00115	A146-07J
83	A146-07M	.58276	148.13	.73087	.05259	57.651	5.5947	.54730	.59870	56.342	.49287	A146-07M
84	A146-07S	.59402	107.19	.74424	.05380	59.106	4.3572	.56021	.60083	57.721	.51151	A146-07S
85	A146-01	.06586	137.81	.22777	.03335	5.9496	6.6695	.00508	.07286	4.8544	.00343	A146-01
86	Blank	.00035	.07723	-.00080	-.00005	.00372	.00541	.00018	-.00018	.02493	.00083	Blank
87	CCV7	2.5581	23.400	2.4939	.53921	60.779	2.4193	2.5464	2.5487	60.380	1.0526	CCV7
88	CCB7	.00048	.00017	-.00083	.00005	.01076	.00039	.00076*	-.00017	.05555	-.00037	CCB7
89	A146-02	.05998	130.72	.24605	.03905	6.4009	14.045	.00509	.06055	4.3228	.00666	A146-02
90	A146-03	.09607	82.931	.36828	.02890	5.6101	3.0440	.00322	.06589	4.0720	.00619	A146-03
91	A146-04	.05212	146.38	.17212	.02773	4.8875	2.9387	.00312	.06394	3.3322	.00657	A146-04
92	A146-05	.06293	83.163	.29435	.02607	4.9709	3.0308	.00409	.04847	3.8559	.00493	A146-05
93	A146-06	.07734	78.718	.32182	.02869	5.2534	2.4537	.00351	.05905	3.8930	.00616	A146-06
94	A158-01	.05354	63.619	.05881	.04507	48.183	1.5390	.00254	.06370	8.3383	.00112	A158-01
95	A158-02	.07378	75.958	.07157	.04453	19.055	1.6509	.00317	.09065	8.3389	.00068	A158-02
96	A158-03	.18524	105.92	.09984	.05735	25.296	3.5230	.00788	.10352	10.359	.00124	A158-03
97	A160-10	.48493	34.273	7.2810	.01528	2.4593	.81336	.00260	.03056	4.0524	.00115	A160-10
98	Blank	.00052	.02904	.00016	.00008	.00010	.00095	-.00002	-.00024	-.02404	.00014	Blank
99	CCV8	2.5628	23.419	2.4951	.54036	61.280	2.4311	2.5500	2.5449	60.467	1.0643	CCV8
100	CCB8	.00070	.00329	-.00043	.00024	.01019	.00069*	.00074*	-.00018	.02040	-.00093	CCB8
101	A160-11	.44969	34.711	6.8424	.01714	2.5282	.82880	.00276	.03322	4.1926	.00292	A160-11
102	A160-12	1.2095	31.016	10.412	.01920	2.9825	.43815	.00209	.03449	2.8392	.00188	A160-12
103	A160-13	.34071	51.604	14.678	.01710	3.2401	.33992	.00466	.03925	6.1741	.00168	A160-13
104	A160-14	.95122	35.337	8.7255	.01472	2.6972	.23897	.00332	.03136	2.2121	.00102	A160-14
105	A160-15	.26621	55.419	.74885	.03316	9.4165	.37037	.00225	.07800	6.3092	.00218	A160-15
106	A160-16	.08993	37.612	1.1974	.01514	2.2177	.20802	.00346	.03199	3.2765	.00242	A160-16
107	A160-17	.16573	42.894	1.6120	.01713	2.4163	.20247	.00371	.03418	2.9097	.00067	A160-17
108	A160-18	.13063	38.139	.27978	.01798	3.1762	.27375	.00372	.03948	4.4976	.00153	A160-18
109	Blank	.00033	.02228	-.00019	-.00026	-.00216	.00005	.00000	-.00032	-.03652	-.00045	Blank
110	CCV9	2.5601	23.545	2.4900	.53861	61.737	2.4397	2.5403	2.5437	60.514	1.0594	CCV9
111	CCB9	.00073	.00107	-.00032	.00010	.01437	.00038	.00109*	-.00002	.01105	-.00018	CCB9

112	IPA035WB	.00051	.00291	-.00025	-.00018	-.00295	.00007	.00025	.00001	-.01438	-.00024	IPA035WB
113	IPA035WL	.52779	5.0484	.51831	-.00055*	50.971	.50133	.52182	.52663	50.669	.54254	IPA035WL
114	IPA035WC	.53436	5.0895	.52320	.00047*	51.101	.50689	.52807	.53059	50.831	.55065	IPA035WC
115	A752-01A	.58078	5.3339	.54949	.00946	88.768	.58716	.52911	.55975	67.095	.60467	A752-01A
116	A752-01	.00347	.00884	.00005	.00952	38.083	.05095	.00543	.00135	14.751	.00015	A752-01
117	A752-01J	.00111	.00182	-.00035	.00142	7.5052	.01009	.00118	.00007	2.8241	.00054	A752-01J
118	Blank	.00048	-.00076	-.00049	.00017	.00709	.00001	.00004	-.00023	.05285	-.00030	Blank
119	ICSA2	.00175	183.28	-.00245	.00674	206.57	.00091	-.00204	-.00107	.06511	.00008	ICSA2
120	ICSAB2	.55332	182.15	.96930	1.1631	205.26	.47942	1.0556	1.0071	80.749	1.0883	ICSAB2
121	CCV10	2.5661	23.485	2.4924	.54059	61.263	2.4376	2.5479	2.5463	60.596	1.0561	CCV10
122	CCB10	.00076	.01546	-.00056	.00009	.02573	.00042	.00096*	-.00010	.06804	.00138	CCB10
123	TXA009WB	.00086	.01727	-.00053	-.00006	.01272	.00004	.00039	.00018	.03295	-.00070	TXA009WB
124	A504-04A	.76704	5.3676	.54607	.02064	49.555	.53526	.53451	.56212	93.809	.57771	A504-04A
125	A504-04	.20578	.03944	.00343	.02065	.06888	.00070	.01376	.00088	44.767	-.00363	A504-04
126	A504-04J	.04024	.00890	-.00006	.00395	.01661	-.00006	.00268	.00006	8.7129	.00080	A504-04J
127	A504-04M	.78571	5.0737	.51002	.01982	50.711	.49686	.54457	.52728	93.277	.54719	A504-04M
128	A504-04S	.77078	4.9414	.49976	.01997	49.572	.48803	.53029	.51722	92.277	.53357	A504-04S
129	A504-01	.11663	.02120	.00239	.01740	.21153	.00059	.01188	.00084	38.473	-.00135	A504-01
130	A504-02	.13994	.02223	.00277	.02004	.06441	.00042	.01298	.00077	42.999	-.00292	A504-02
131	A504-03	.12142	.02674	.00247	.01971	.05512	.00043	.01263	.00082	42.312	-.00093	A504-03
132	Blank	.00036	.00010	-.00035	.00019	-.00535	-.00015	.00003	-.00014	.18192	-.00136	Blank
133	CCV11	2.5552	23.512	2.4852	.53573	61.120	2.4218	2.5396	2.5387	60.214	1.0520	CCV11
134	CCB11	.00099	.00480	.00001	.00070	.02240	.00063*	.00127*	.00013	.07978	-.00047	CCB11
135	A504-05	.18091	.04640	.00216	.01826	.11029	.00193	.01332	.00083	42.029	-.00114	A504-05
136	A504-06	.14456	.03620	.00472	.01763	.04049	.00069	.01196	.00050	39.800	-.00233	A504-06
137	A504-04A	.60166	5.4117	.55412	.00445	50.263	.54159	.52436	.56185	58.583	.57350	A504-04A
138	A504-04T	.04134	.00597	.00082	.00399	.02545	.00002	.00290	.00009	8.8697	-.00012	A504-04T
139	A504-04J	.00899	.02598	.04004	.00091	.06051	.00080	.00099	.00023	1.7747	-.00056	A504-04J
140	A504-04G	.15202	1.0355	.10180	.00375	10.115	.10074	.10540	.10461	18.061	.10468	A504-04G
141	A504-04H	.15108	1.0169	.10164	.00401	9.9722	.10020	.10422	.10400	18.043	.10347	A504-04H
142	Blank	.00050	.00009	-.00019	.00029	.00469	-.00002	.00011	-.00021	.03457	.00057	Blank
143	CCV12	2.5724	23.501	2.4836	.53683	60.491	2.4062	2.5463	2.5429	59.892	1.0568	CCV12
144	CCB12	.00108	.00560	-.00010	.00017	.01426	.00069*	.00111*	.00029	.06495	.00025	CCB12
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00012	.00126	-.00007	-.00002	.00016	-.00002	-.00010	.00179	Blank
2	S20									S20
3	S21									S21
4	S22							.15440		S22
5	S23							1.5453		S23
6	S24		1.0042							S24
7	S25		5.8644							S25
8	S26									S26
9	S27									S27
10	S28				.00593					S28
11	S29				.05662					S29
12	S30	.04565		.13192		.02429	.01585		.57799	S30
13	S31	.22529		.64828		.11690	.07845		5.5604	S31
14	ICV	.50367	62.994	.49866	2.5231	.50058	.50030	1.4937	2.6779	ICV
15	ICB	.00007	.03004	.00010	.00040	-.00062	.00044	.00028	-.00156	ICB
16	MRLA2001	.00993	1.0442	.01021	.01177	-.00044	.01048	.00999	.02060	MRLA2001
17	MRLA2002	.01005	.52066	.01042	.01123	.00940	.01063	.01011	.00811	MRLA2002
18	ICSA1	.00004	.07701	.02118	.00107	.00235	.00197	.00166	.00126	ICSA1
19	ICSAB1	1.1129	82.555	.52173	.88394	1.0056	.98121	.48308	1.0674	ICSAB1
20	CCV1	.49514	62.989	.49548	2.5014	.49619	.49540	1.4791	2.6602	CCV1
21	CCB1	.00014	.03937	.00010	.00021	-.00060	.00087	.00015	.00157	CCB1
22	IPA030WB	.00028	.06274	.00023	.00048	-.00013	.00097	.00018	.01333*	IPA030WB
23	IPA030WL	.52621	53.051	.48874	.53918	.51297	.51514	.51835	.55784	IPA030WL
24	IPA030WC	.53009	54.374	.50020	.54039	.52410	.52813	.51807	.55654	IPA030WC
25	A126-01A	.51481	135.87	.66419	.54025	.50290	.50487	.53986	.60261	A126-01A
26	A126-01	-.00011	86.633	.18798	-.00077	-.00034	.00151	.00065	.01362	A126-01
27	A126-01J	.00003	17.313	.03776	-.00077	-.00049	.00066	.00004	.00179	A126-01J
28	A126-02	-.00023	94.142	.07552	-.00077	-.00026	.00893	.00934	.00545	A126-02
29	A126-03	-.00029	131.10	.22448	-.00174	.00005	.00669	.00205	.01909	A126-03
30	A126-04	-.00025	106.91	.15250	-.00038	-.00028	.00139	.00207	.01582	A126-04
31	Blank	-.00007	.10202	.00008	-.00024	-.00099	.00024	-.00010	-.00054	Blank
32	CCV2	.49481	63.122	.49912	2.5010	.49892	.49548	1.4712	2.6561	CCV2
33	CCB2	.00000	.05335	.00020	.00042	-.00057	.00051	.00027	.00341	CCB2
34	A470-01T	.00001	1.0898	.01511	.00052	.00331	.01110	.00103	.23232	A470-01T
35	A470-02W	-.00011	21.834	.10481	-.00788*	.04344	.21088	.01378	.71414	A470-02W
36	A470-03W	.00043	18.180	.25609	-.00647*	.03887	.50279	.03418	.88270	A470-03W
37	A470-04W	-.00032	2.3058	.21650	-.00979*	.03859	.10994	.00601	.22978	A470-04W
38	A470-05W	-.00013	1.0185	.04632	-.00586*	.04326	.07989	.01485	1.1549	A470-05W
39	Blank	-.00015	-.00774	.00002	-.00023	-.00070	.00033	.00003	-.00059	Blank
40	CCV3	.49327	62.845	.49852	2.4994	.50012	.49475	1.4707	2.6601	CCV3
41	CCB3	.00004	.03186	.00016	.00053	-.00078	.00034	.00010	.00418	CCB3
42	A491-01T	.00004	.60458	.21312	-.00068	.00853	.76350	.00467	9.6903	A491-01T
43	A491-02T	.00115	.14751	.09992	-.00079	.01118	.79358	.00434	8.1700	A491-02T
44	A491-03T	.00077	.48929	.06693	-.00071	.01141	.26353	.00797	4.3513	A491-03T
45	A491-04T	.00069	.12700	.01742	.00025	.00152	.02008	.00024	6.5616	A491-04T
46	A491-05T	.00066	.60814	.11997	-.00037	.02247	.13114	.00178	8.4183	A491-05T
47	A491-06W	.00141	5.5095	.08633	-.00225	.04467	.63595	.01006	32.761	A491-06W
48	A491-07T	.00060	.07421	.01322	.00006	.00645	.02751	.00041	6.8514	A491-07T
49	A491-08T	.00010	.60995	.07703	-.00123	.01629	.87458	.00383	11.535	A491-08T
50	A491-09T	.00083	.97443	.09956	-.00050	.01056	.58236	.00733	9.1662	A491-09T
51	Blank	.00002	.06734	.00015	-.00047	-.00067	.00064	-.00002	.00887	Blank
52	CCV4	.49395	63.107	.49783	2.4934	.49811	.50062	1.4825	2.6509	CCV4
53	CCB4	.00008	.02332	.00012	.00058	-.00060	.00063	.00020	.00441	CCB4
54	IPA032WB	-.00007	.00105	.00004	-.00062	-.00075	.00027	.00015	.00110	IPA032WB

55	IPA032WL	.51208	52.212	.48095	.52902	.50589	.50984	.50400	.54234	IPA032WL
56	IPA032WC	.52031	51.677	.48403	.53493	.51105	.51925	.50866	.55963	IPA032WC
57	A115-02A	.50982	109.72	.82137	.54821	.50265	.50653	.53127	.59279	A115-02A
58	A115-02	.00005	57.886	.35069	-.00010	.00017	.00094	.00083	.01326	A115-02
59	A115-02J	-.00019	11.462	.07013	.00046	-.00059	.00065	.00007	.00099	A115-02J
60	A115-02M	.51888	53.228	.49109	.52987	.51341	.51375	.50412	.54648	A115-02M
61	A115-02S	.51946	54.019	.49607	.52924	.52071	.52504	.50582	.55425	A115-02S
62	A115-01	.00021	59.298	.27747	-.00018	.00010	.00096	.00155	.03759	A115-01
63	Blank	.00002	.03048	.00006	-.00009	-.00040	.00003	-.00014	-.00134	Blank
64	CCV5	.49497	64.084	.50491	2.4868	.50868	.50786	1.4654	2.6405	CCV5
65	CCB5	.00006	.03922	.00019	.00109*	-.00036	.00039	.00034	.00487	CCB5
66	A115-03	.00007	53.055	.23533	-.00013	-.00067	.00056	.00100	.00605	A115-03
67	A105-02	-.00012	141.44	.95025	-.00200	-.00001	.00144	.00078	.00183	A105-02
68	A124-02	-.00017	44.468	.84692	-.00017	-.00052	.00133	.00575	.03869	A124-02
69	A124-02M	.53092	55.734	.50144	.53711	.53185	.53363	.50870	.54419	A124-02M
70	A124-02S	.53817	56.219	.51293	.54918	.54294	.54402	.51576	.56173	A124-02S
71	A124-03	.00007	44.763	.85094	-.00009	-.00044	.00216	.00596	.04416	A124-03
72	A124-04	-.00024	45.159	.85611	-.00007	-.00027	.00121	.00452	.02389	A124-04
73	A160-19	.00000	.05593	.00046	-.00037	-.00062	.00061	-.00003	.01553	A160-19
74	Blank	-.00008	.00788	.00008	-.00006	-.00029	.00028	-.00008	-.00037	Blank
75	CCV6	.49916	64.813	.51019	2.4742	.51600	.51156	1.4610	2.6349	CCV6
76	CCB6	.00008	.04238	.00024	.00060	-.00070	.00057	.00040	.00112	CCB6
77	IPA031SB	-.00010	.03431	.00025	-.00159	.03423	.00042	.00024	.03315*	IPA031SB
78	IPA031SL	.51472	56.131	.51155	.50835	.58033	.54761	.51547	.57214	IPA031SL
79	IPA031SC	.51674	56.538	.50990	.50503	.57900	.54403	.51682	.58356	IPA031SC
80	A146-07A	.48750	54.545	.57695	.48996	.54478	1.2010	.83919	2.5105	A146-07A
81	A146-07	-.00039	1.6296	.09417	-.00280	.04128	.71287	.33751	2.0008	A146-07
82	A146-07J	-.00013	.31541	.01864	-.00096	.00714	.14359	.06776	.38420	A146-07J
83	A146-07M	.50451	56.770	.60915	.45847	.55632	1.2869	.86687	2.6860	A146-07M
84	A146-07S	.51980	57.948	.61872	.47537	.57694	1.2697	.78465	2.4917	A146-07S
85	A146-01	-.00044	.51277	.12344	-.00414	.04085	.60402	.33219	.50162	A146-01
86	Blank	-.00004	.00153	.00009	-.00016	-.00032	.00146	.00011	.00015	Blank
87	CCV7	.49983	64.766	.50946	2.5144	.51641	.51282	1.4707	2.6398	CCV7
88	CCB7	-.00003	.02249	.00009	.00037	-.00059	.00036	.00006	.00014	CCB7
89	A146-02	-.00066	.90177	.12976	-.00581*	.04148	.46156	.35652	.25189	A146-02
90	A146-03	-.00047	.60313	.09591	-.00263	.03906	.54743	.22456	12.571	A146-03
91	A146-04	-.00045	.89198	.10070	-.00279	.04155	.55512	.42287	2.7034	A146-04
92	A146-05	-.00060	1.1013	.07594	-.00294	.03935	.67295	.22209	5.3657	A146-05
93	A146-06	-.00061	1.1603	.07753	-.00287	.04078	.60911	.22514	5.7888	A146-06
94	A158-01	-.00025	.94564	.16461	-.00260	.03793	1.1661	.09338	.22239	A158-01
95	A158-02	-.00029	.85396	.13727	-.00279	.03944	1.6972	.10322	.24711	A158-02
96	A158-03	-.00060	1.0658	.16765	-.00270	.04080	2.4004	.13001	.43707	A158-03
97	A160-10	-.00017	.58514	.26209	-.00150	.04243	1.2679	.08955	.12846	A160-10
98	Blank	.00001	-.02375	.00018	-.00037	-.00023	.00251	-.00002	-.00009	Blank
99	CCV8	.50014	64.949	.51087	2.5350	.51892	.51943	1.4722	2.6465	CCV8
100	CCB8	-.00010	.00570	.00008	-.00031	-.00047	.00034	.00008	.00005	CCB8
101	A160-11	-.00007	.64670	.26523	-.00142	.04018	1.3728	.09085	.12535	A160-11
102	A160-12	-.00012	1.1209	.11912	-.00102	.04841	1.1220	.11666	.23912	A160-12
103	A160-13	.00028	.68882	.06182	-.00108	.04775	2.2530	.13341	.10366	A160-13
104	A160-14	.00010	.62180	.36618	-.00169	.04227	1.5458	.09171	.16531	A160-14
105	A160-15	-.00027	.99483	.08051	-.00123	.04208	2.7330	.12174	.16612	A160-15
106	A160-16	-.00033	.46695	.04904	-.00088	.03904	1.7086	.09968	.06924	A160-16
107	A160-17	-.00011	.47216	.06303	-.00070	.03889	2.0580	.11452	.05615	A160-17
108	A160-18	-.00028	.51125	.07383	-.00109	.03935	1.8233	.09381	.10304	A160-18
109	Blank	-.00017	-.02689	.00000	-.00040	-.00020	.00214	-.00001	-.00045	Blank
110	CCV9	.50112	64.853	.50954	2.5342	.51779	.51843	1.4777	2.6515	CCV9
111	CCB9	-.00001	.00499	.00006	-.00021	-.00024	.00084	.00012	-.00013	CCB9

112	IPA035WB	-.00007	-.01171	.00002	.00007	-.00070	.00037	-.00013	-.00122	IPA035WB
113	IPA035WL	.53150	54.528	.49794	.54272	.52491	.53007	.50464	.54194	IPA035WL
114	IPA035WC	.53797	54.729	.50217	.55075	.52967	.53524	.50925	.54454	IPA035WC
115	A752-01A	.53767	242.32	1.0048	.54281	.52034	.52421	.53814	.63239	A752-01A
116	A752-01	-.00003	192.37	.52515	-.00113	-.00042	.00193	.00290	.04755	A752-01
117	A752-01J	-.00015	38.085	.10463	-.00006	-.00064	.00126	.00041	.00789	A752-01J
118	Blank	-.00006	.04504	.00002	-.00039	-.00048	.00029	-.00020	-.00025	Blank
119	ICSA2	.00031	.10414	.02011	-.00184	.00274	.00255	.00160	-.00130	ICSA2
120	ICSAB2	1.1357	85.471	.53599	.89801	1.0475	1.0265	.48279	1.0538	ICSAB2
121	CCV10	.50145	65.073	.51031	2.5213	.51733	.51772	1.4733	2.6411	CCV10
122	CCB10	.00011	.03794	.00014	.00015	-.00027	.00069	.00017	-.00010	CCB10
123	TXA009WB	-.00004	.03196	.00015	-.00017	-.00014	.00037	.00007	.01080*	TXA009WB
124	A504-04A	.52658	224.63	.48853	.53474	.51206	.51789	.53340	.63338	A504-04A
125	A504-04	-.00017	176.95	.00168	-.00064	.00167	.00093	-.00009	.03972	A504-04
126	A504-04J	-.00010	35.766	.00030	-.00023	.00011	.00020	.00003	.00584	A504-04J
127	A504-04M	.53982	221.43	.49589	.51082	.52531	.52706	.50600	.60339	A504-04M
128	A504-04S	.52466	218.31	.48270	.49481	.51110	.51434	.49368	.59022	A504-04S
129	A504-01	-.00010	152.61	.00216	.00019	.00122	.00082	.00019	.02940	A504-01
130	A504-02	-.00037	169.43	.00146	-.00022	.00100	.00032	.00007	.03199	A504-02
131	A504-03	-.00038	166.16	.00153	-.00085	.00107	.00013	.00010	.02632	A504-03
132	Blank	-.00001	.17340	-.00003	-.00040	-.00033	.00045	-.00003	.00176	Blank
133	CCV11	.50014	64.610	.50816	2.5195	.51552	.51301	1.4750	2.6480	CCV11
134	CCB11	-.00003	.07131*	.00011	.00058	-.00021	.00026	.00030	.00007	CCB11
135	A504-05	-.00024	169.11	.00427	.00003	.00148	.00146	.00147	.05516	A504-05
136	A504-06	-.00041	157.68	.00138	-.00043	.00137	.00037	.00273	.03615	A504-06
137	A504-04A	.51454	89.555	.49186	.56183	.51824	.52513	.53718	.59223	A504-04A
138	A504-04T	-.00005	36.442	.00044	-.00048	-.00003	.00040	-.00004	.00607	A504-04T
139	A504-04J	.00000	7.5260	.00067	.00019	-.00003	.00124	.00020	.03966	A504-04J
140	A504-04G	.10174	44.474	.09922	.10964	.10372	.10565	.10046	.11482	A504-04G
141	A504-04H	.10052	44.788	.09831	.10867	.10143	.10402	.09942	.11370	A504-04H
142	Blank	-.00006	.05856	.00006	-.00042	-.00046	.00054	-.00017	-.00021	Blank
143	CCV12	.50033	64.488	.50818	2.5219	.51502	.51230	1.4765	2.6390	CCV12
144	CCB12	.00004	.04908	.00020	.00047	-.00084	.00056	.00027	.00005	CCB12
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8A017 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments: DIGESTOR D

Book #: EIP-098
Batch: 1PA031S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
1/20/11 1220	90 °C	1/20/11 1420	90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-02-11	0.5
LCS-2	12	0.5
LCS-3	13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10
Digestate Location	ICP	
Extract Location		

☑ Reagent Water ID: 1/21/11 SSM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101983555

Prepared By: LK/NT
Standard Added By: LK/CPC Witnessed By: LK/CPC
Extract Rcvd By: TH Checked By: TH

7048

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA031S01	IPA031SB	1	g	1/20/11 9:15	100	1	100	1	
11IPA031S02	IPA031SL	1	g	1/20/11 9:15	100	1	100	1	
11IPA031S03	IPA031SC	1	g	1/20/11 9:15	100	1	100	1	
11IPA031S04	A146-01	1.055	g	1/20/11 9:16	100	1	100	0.948	
11IPA031S05	A146-02	1.022	g	1/20/11 9:17	100	1	100	0.978	
11IPA031S06	A146-03	1.048	g	1/20/11 9:18	100	1	100	0.954	
11IPA031S07	A146-04	1.083	g	1/20/11 9:18	100	1	100	0.923	
11IPA031S08	A146-05	1.026	g	1/20/11 9:21	100	1	100	0.975	
11IPA031S09	A146-06	1.018	g	1/20/11 9:22	100	1	100	0.982	
11IPA031S10	A146-07	1.083	g	1/20/11 9:25	100	1	100	0.923	
11IPA031S11	A146-07M	1.08	g	1/20/11 9:26	100	1	100	0.926	
11IPA031S12	A146-07S	1.059	g	1/20/11 9:27	100	1	100	0.944	
11IPA031S13	A158-01	1.009	g	1/20/11 11:38	100	1	100	0.991	
11IPA031S14	A158-02	1.046	g	1/20/11 11:39	100	1	100	0.956	
11IPA031S15	A158-03	1.004	g	1/20/11 11:40	100	1	100	0.996	
11IPA031S16	A160-10	1.059	g	1/20/11 11:53	100	1	100	0.944	DRIED AND SIEVED
11IPA031S17	A160-11	1.065	g	1/20/11 11:55	100	1	100	0.939	DRIED AND SIEVED
11IPA031S18	A160-12	1.067	g	1/20/11 11:57	100	1	100	0.937	DRIED AND SIEVED
11IPA031S19	A160-13	1.035	g	1/20/11 12:01	100	1	100	0.966	DRIED AND SIEVED
11IPA031S20	A160-14	1.02	g	1/20/11 12:02	100	1	100	0.98	DRIED AND SIEVED
11IPA031S21	A160-15	1.034	g	1/20/11 12:03	100	1	100	0.967	DRIED AND SIEVED
11IPA031S22	A160-16	1.048	g	1/20/11 12:04	100	1	100	0.954	DRIED AND SIEVED
11IPA031S23	A160-17	1.067	g	1/20/11 12:05	100	1	100	0.937	DRIED AND SIEVED
11IPA031S24	A160-18	1.047	g	1/20/11 12:05	100	1	100	0.955	DRIED AND SIEVED

LK 1/20/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/20/11 12:20 Prepared By: LK/NT

☑ Digestion Ended @ 1/20/11 14:20 Checked By: TH

Comments: Date 1/20/2011

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A146

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of two (2) soil samples were received on 01/19/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA036SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

Samples were oven dried and sieved through # 60 sieve prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A146
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA036SB	1	NA	01/24/1112:41	01/21/1111:40	ID8A019039	ID8A019037	IPA036S	Method Blank
LCS1S	IPA036SL	1	NA	01/24/1112:44	01/21/1111:40	ID8A019040	ID8A019037	IPA036S	Lab Control Sample (LCS)
LCD1S	IPA036SC	1	NA	01/24/1112:46	01/21/1111:40	ID8A019041	ID8A019037	IPA036S	LCS Duplicate
CB231-04-01	A092-03	0.943	NA	01/24/1112:52	01/21/1111:40	ID8A019043	ID8A019037	IPA036S	Field Sample
CB231-04-01DL	A092-03J	4.71	NA	01/24/1112:54	01/21/1111:40	ID8A019044	ID8A019037	IPA036S	Diluted Sample
CP091-11-01	A146-03	0.981	NA	01/24/1113:19	01/21/1111:40	ID8A019053	ID8A019048	IPA036S	Field Sample
CP091-12-01	A146-05	0.940	NA	01/24/1113:22	01/21/1111:40	ID8A019054	ID8A019048	IPA036S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:30
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/21/11 11:40
Sample ID:	CP091-11-01	Date Analyzed:	01/24/11 13:19
Lab Samp ID:	A146-03	Dilution Factor:	0.981
Lab File ID:	ID8A019053	Matrix :	SOIL
Ext Btch ID:	IPA036S	% Moisture :	NA
Calib. Ref.:	ID8A019048	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	47.8	0.981	0.196

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/17/11 10:05
Project	: TAR CREEK OU4	Date Received:	01/19/11
SDG NO.	: 11A146	Date Extracted:	01/21/11 11:40
Sample ID:	CP091-12-01	Date Analyzed:	01/24/11 13:22
Lab Samp ID:	A146-05	Dilution Factor:	0.940
Lab File ID:	ID8A019054	Matrix :	SOIL
Ext Btch ID:	IPA036S	% Moisture :	NA
Calib. Ref.:	ID8A019048	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	33.0	0.940	0.188

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/21/11
SDG NO.	: 11A146	Date Extracted:	01/21/11 11:40
Sample ID:	MBLK1S	Date Analyzed:	01/24/11 12:41
Lab Samp ID:	IPA036SB	Dilution Factor:	1
Lab File ID:	ID8A019039	Matrix :	SOIL
Ext Btch ID:	IPA036S	% Moisture :	NA
Calib. Ref.:	ID8A019037	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA036SB	IPA036SL	IPA036SC		
LAB FILE ID:	ID8A019039	ID8A019040	ID8A019041		
DATIME EXTRCTD:	01/21/1111:40	01/21/1111:40	01/21/1111:40	DATE COLLECTED:	NA
DATIME ANALYZD:	01/24/1112:41	01/24/1112:44	01/24/1112:46	DATE RECEIVED:	01/21/11
PREP. BATCH:	IPA036S	IPA036S	IPA036S		
CALIB. REF:	ID8A019037	ID8A019037	ID8A019037		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	49.5	99	50	50.2	100	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A146
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.943	4.71		
SAMPLE ID:	CB231-04-01	CB231-04-01DL		
EMAX SAMP ID:	A092-03	A092-03J		
LAB FILE ID:	ID8A019043	ID8A019044		
DATE EXTRACTED:	01/21/1111:40	01/21/1111:40	DATE COLLECTED:	01/08/11 13:00
DATE ANALYZED:	01/24/1112:52	01/24/1112:54	DATE RECEIVED:	01/11/11
PREP. BATCH:	IPA036S	IPA036S		
CALIB. REF:	ID8A019037	ID8A019037		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	73.5	73.3	0	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/24/11 10:53

End Date: 1/24/11 13:30

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

QC's OK

Note: As is an interfering element for Sb

Book #: AD8-017

Instrument No.: D8

Analytical Batch: 1D8A019

Analytical Sequence: S-11A6010 (V24)

Method File: 11A6010 (V24)

Database: Emax 13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-2102	S30	SM1B14-0203
S1	NA	S31	0204
S2		ICV	2701
S3		CCV	2103
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B14-1201
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B12-1004 05		
S21	SM1B14-0101		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	SM1B14-2801		
S27	2802		
S28	0201		
S29	0202		

Analyzed By: TH

Date: 1/24/11

SEQUENCE FILE : ID8A019

4-18 LFID	19-33 LSID	34-43 TIME	44-53 DATE	54-63 DF
ID8A019001	Blank	10:53	01/24/11	1.000
ID8A019002	S20	10:56	01/24/11	1.000
ID8A019003	S21	10:59	01/24/11	1.000
ID8A019004	S22	11:02	01/24/11	1.000
ID8A019005	S23	11:05	01/24/11	1.000
ID8A019006	S24	11:08	01/24/11	1.000
ID8A019007	S25	11:11	01/24/11	1.000
ID8A019008	S26	11:14	01/24/11	1.000
ID8A019009	S27	11:17	01/24/11	1.000
ID8A019010	S28	11:20	01/24/11	1.000
ID8A019011	S29	11:23	01/24/11	1.000
ID8A019012	S30	11:25	01/24/11	1.000
ID8A019013	S31	11:28	01/24/11	1.000
ID8A019014	ICV	11:31	01/24/11	1.000
ID8A019015	IC8	11:34	01/24/11	1.000
ID8A019016	MRLA2401	11:36	01/24/11	1.000
ID8A019017	MRLA2402	11:39	01/24/11	1.000
ID8A019018	ICSA1	11:42	01/24/11	1.000
ID8A019019	ICSA81	11:45	01/24/11	1.000
ID8A019020	CCV1	11:48	01/24/11	1.000
ID8A019021	CC81	11:51	01/24/11	1.000
ID8A019022	IPA037W8	11:54	01/24/11	1.000
ID8A019023	IPA037WL	11:57	01/24/11	1.000
ID8A019024	IPA037WC	11:59	01/24/11	1.000
ID8A019025	A126-04A	12:02	01/24/11	1.000
ID8A019026	A126-04R	12:05	01/24/11	1.000
ID8A019027	A126-04J	12:07	01/24/11	5.000
ID8A019028	A126-04M	12:10	01/24/11	1.000
ID8A019029	A126-04S	12:13	01/24/11	1.000
ID8A019030	Blank	12:15	01/24/11	1.000
ID8A019031	CCV2	12:18	01/24/11	1.000
ID8A019032	CCB2	12:21	01/24/11	1.000
ID8A019033	A126-01R	12:24	01/24/11	1.000
ID8A019034	A126-02R	12:27	01/24/11	1.000
ID8A019035	A126-03R	12:29	01/24/11	1.000
ID8A019036	Blank	12:32	01/24/11	1.000
ID8A019037	CCV3	12:35	01/24/11	1.000
ID8A019038	CCB3	12:38	01/24/11	1.000
ID8A019039	IPA036SB	12:41	01/24/11	1.000
ID8A019040	IPA036SL	12:44	01/24/11	1.000
ID8A019041	IPA036SC	12:46	01/24/11	1.000
ID8A019042	A092-03A	12:49	01/24/11	1.000
ID8A019043	A092-03	12:52	01/24/11	1.000
ID8A019044	A092-03J	12:54	01/24/11	5.000
ID8A019045	A092-03M	12:57	01/24/11	1.000
ID8A019046	A092-03S	13:00	01/24/11	1.000
ID8A019047	Blank	13:02	01/24/11	1.000
ID8A019048	CCV4	13:05	01/24/11	1.000
ID8A019049	CCB4	13:08	01/24/11	1.000
ID8A019050	A049-04A	13:11	01/24/11	10.00
ID8A019051	A049-04T	13:13	01/24/11	10.00
ID8A019052	A049-04J	13:16	01/24/11	50.00
ID8A019053	A146-03	13:19	01/24/11	1.000
ID8A019054	A146-05	13:22	01/24/11	1.000

ID8A019055	Blank	13:24	01/24/11	1.000
ID8A019056	CCV5	13:27	01/24/11	1.000
ID8A019057	CCB5	13:30	01/24/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A019 DATE : 01/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	102	97	103	102	99	96	96	99	94	94	102	101	95	107	94	92	98	96	95	101	101	105	97	90	97	98	97	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	95	----	----	----	----	----	----	94	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	95	104	106	111	98	97	92	91	91	96	111	93	93	117	95	90	104	96	103	105	111	112	103	81	100	97	97	107
CCV1	104	100	105	103	100	98	98	99	95	96	105	99	97	108	95	93	100	98	97	104	100	106	99	93	99	99	100	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	104	99	104	103	99	97	95	97	93	97	105	98	97	109	93	91	101	98	97	103	99	106	98	92	100	98	99	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-01R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-02R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-03R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	99	103	103	98	97	95	97	93	97	105	98	98	109	92	91	101	98	97	103	99	106	98	92	100	98	99	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	100	103	102	98	96	94	97	92	97	104	98	98	107	92	90	102	98	96	103	98	105	98	92	102	98	97	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	105	100	103	103	98	96	94	97	92	97	105	98	98	108	92	90	102	98	96	103	98	105	98	92	102	98	97	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A019 (SOIL) DATE : 01/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	39.9	1.63	-.200	.770	.620	3.88	.170	27.3	.880	.060	.670	4.52	.240	.350	30.1	.920	.930	.500	90.3	-.100	.050	54.1	.250	.570	.130	.680	.440	-.200
MRLA2401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.69	-2.32	1.26	-.030	-4.33	-2.73	----	1.39	-.710	1.45	----	-4.30	5.44	----	.680	-1.72	-1.01	57.3	.540	-.060	69.1	20.6	.360	3.39	2.37	1.64	1.52
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	51.2	1.53	-.190	.520	.410	3.51	.220	64.0	.360	.060	.480	17.2	.170	.690	35.7	.490	.840	.220	101	-.200	-.010	64.9	.160	.360	-.060	.310	.360	1.20
IPA037WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA037WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	22.2	1.77	1.65	.250	.330	3.69	.170	8.66	.280	.130	.610	2.70	.020	.430	10.1	.570	.980	.210	119	-.170	.060	86.3	.120	.300	.130	.250	.310	-.260
A126-01R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-02R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A126-03R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	9.57	1.47	-.430	.280	.280	3.54	.020	7.96	.060	-.050	.340	-1.46	-.300	.660	22.0	.760	.640	-.030	93.6	-.310	-.130	85.9	.100	.030	-.210	.150	.150	-.450
IPA036SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA036SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	11.4	1.50	-.700	.220	.310	3.37	-.020	7.37	.130	.100	.480	1.44	.150	.640	20.0	.400	.620	.150	98.8	-.120	-.160	51.8	.050	-.090	.160	.180	.110	-.110
A049-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A049-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	12.0	1.05	.370	.270	.300	3.31	.050	4.59	.140	-.030	.560	.790	-.080	.710	13.6	.460	.720	.070	95.5	-1.04	-.170	50.2	.110	.370	.110	.140	.120	-.280

QC limit of each parameter are listed in a table attached next to all the ICP check forms .
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A019001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8A019002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8A019003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8A019004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8A019005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8A019006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8A019007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8A019008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8A019009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8A019010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8A019011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8A019012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8A019013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8A019014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A019015			1	☒	LOD	None
16	3	2	3	1	QC	MRLA2401		ID8A019016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2402		ID8A019017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A019018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A019019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A019020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A019021			1	☒	LOD	None
22	9	2	9	1	QC	IPA037WB		ID8A019022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPA037WL		ID8A019023			1	☒	LCS	None
24	11	2	11	1	QC	IPA037WC		ID8A019024			1	☒	LCS	None
25	12	2	12	1	Unk	A126-04A		ID8A019025			1	☒	unk	—
26	13	2	1	2	Unk	A126-04R		ID8A019026			1	☒	unk	—
27	14	2	2	2	Unk	A126-04J		ID8A019027			1	☒	unk	—
28	15	2	3	2	Unk	A126-04M		ID8A019028			1	☒	unk	—
29	16	2	4	2	Unk	A126-04S		ID8A019029			1	☒	unk	—
30	17	2	5	2	Blank	Blank		ID8A019030			1	☐		—
31	18	2	6	2	QC	CCV2		ID8A019031			1	☒	CCV	None
32	19	2	7	2	QC	CCB2		ID8A019032			1	☒	LOD	None
33	20	2	8	2	Unk	A126-01R		ID8A019033			1	☒	unk	—
34	21	2	9	2	Unk	A126-02R		ID8A019034			1	☒	unk	—
35	22	2	10	2	Unk	A126-03R		ID8A019035			1	☒	unk	—
36	23	2	11	2	Blank	Blank		ID8A019036			1	☐		—
37	24	2	12	2	QC	CCV3		ID8A019037			1	☒	CCV	None
38	25	2	1	3	QC	CCB3		ID8A019038			1	☒	LOD	None
39	26	2	2	3	QC	IPA036SB		ID8A019039			1	☒	1/2LOQ	None

7953

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	QC	IPA036SL		ID8A019040			1	☒	LCS	None
41	28	2	4	3	QC	IPA036SC		ID8A019041			1	☒	LCS	None
42	29	2	5	3	Unk	A092-03A		ID8A019042			1	☒	unk	—
43	30	2	6	3	Unk	A092-03		ID8A019043			1	☒	unk	—
44	31	2	7	3	Unk	A092-03J		ID8A019044			1	☒	unk	—
45	32	2	8	3	Unk	A092-03M		ID8A019045			1	☒	unk	—
46	33	2	9	3	Unk	A092-03S		ID8A019046			1	☒	unk	—
47	34	2	10	3	Blank	Blank		ID8A019047			1	☐		—
48	35	2	11	3	QC	CCV4		ID8A019048			1	☒	CCV	None
49	36	2	12	3	QC	CCB4		ID8A019049			1	☒	3XIDL	None
50	37	2	1	4	Unk	A049-04A	10X	ID8A019050			1	☒	unk	—
51	38	2	2	4	Unk	A049-04T	10X	ID8A019051			1	☒	unk	—
52	39	2	3	4	Unk	A049-04J	50X	ID8A019052			1	☒	unk	—
53	40	2	4	4	Unk	A146-03		ID8A019053			1	☒	unk	—
54	41	2	5	4	Unk	A146-05		ID8A019054			1	☒	unk	—
55	42	2	6	4	Blank	Blank		ID8A019055			1	☐		—
56	43	2	7	4	QC	CCV5		ID8A019056			1	☒	CCV	None
57	44	2	8	4	QC	CCB5		ID8A019057			1	☒	3XIDL	None
58	45	2	9	4	QC	IPA033WB		ID8A019058			1	☒	1/2LOQ	None
59	46	2	10	4	QC	IPA033WL		ID8A019059			1	☒	LCS	None
60	47	2	11	4	QC	IPA033WC		ID8A019060			1	☒	LCS	None
61	48	2	12	4	Unk	MDLV-01		ID8A019061			1	☒	unk	—
62	49	2	1	5	Unk	MDLV-02		ID8A019062			1	☒	unk	—
63	50	2	2	5	Blank	Blank		ID8A019063			1	☐		—
64	51	2	3	5	QC	CCV6		ID8A019064			1	☒	CCV	None
65	52	2	4	5	QC	CCB6		ID8A019065			1	☒	3XIDL	None

7055

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00173	.00003	-.00001	.00027	.00007	.00038	-.00004	.00035	.00002	-.00091	Blank
2	S20					.95667		.13246				S20
3	S21					9.1103		1.1867				S21
4	S22				.50634						.16433	S22
5	S23				4.7727						1.6668	S23
6	S24						.10370					S24
7	S25						1.0745					S25
8	S26	.30991							.85303	.14356		S26
9	S27	11.011							7.7930	1.3653		S27
10	S28		.00575									S28
11	S29		.05761									S29
12	S30			.00142								S30
13	S31			.00567								S31
14	ICV	102.19	1.4490	1.0282	2.0391	1.4812	2.3927	1.9218	74.174	2.3491	.94097	ICV
15	ICB	.03994*	.00163	-.00020	.00077	.00062*	.00388	.00017	.02733	.00088	.00006	ICB
16	MRLA2401	.21926	.10033	.01010	.01076	.00983	.00969	.01003	1.0207	.01022	.00942	MRLA2401
17	MRLA2402	.21175	.05127	.01008	.00548	.00411	.09371	.00504	.50655	.00995	.00933	MRLA2402
18	ICSA1	379.67	.00769	-.00232	.00126	-.00003	-.00433	-.00273	467.89	.00139	-.00071	ICSA1
19	ICSAB1	380.65	1.0361	1.0594	.55288	.48762	.48460	.91603	455.41	.45569	.48139	ICSAB1
20	CCV1	104.17	1.4955	1.0477	2.0634	1.4953	2.4380	1.9556	73.973	2.3803	.96123	CCV1
21	CCB1	.05122*	.00153	-.00019	.00052	.00041	.00351	.00022	.06402	.00036	.00006	CCB1
22	IPA037WB	.02085	.00000	.00028	.00033	.00004	.00227	-.00005	.03183	-.00015	-.00008	IPA037WB
23	IPA037WL	5.5657	2.6288	.53859	.53311	.51378	.50700	.50560	49.769	.49664	.50868	IPA037WL
24	IPA037WC	5.5346	2.6377	.53961	.53266	.51347	.50481	.50613	49.825	.49247	.50932	IPA037WC
25	A126-04A	6.0041	2.4659	20.277	.63499	.53196	.78880	.51448	70.575	.51031	.53536	A126-04A
26	A126-04R	.06073	-.07323	19.911	.08349	.00017	.29850	.00001	23.508	.00093	.00130	A126-04R
27	A126-04J	.01930	-.01462	4.0132	.01661	-.00002	.05867	-.00015	4.7943	.00013	.00021	A126-04J
28	A126-04M	5.7009	2.5415	21.826	.61887	.51045	.82215	.49047	73.525	.49041	.51081	A126-04M
29	A126-04S	5.7445	2.5639	21.927	.62086	.51197	.83011	.49095	73.476	.49404	.51253	A126-04S
30	Blank	.00304	.00171	.00316	.00060	.00012	.00179	-.00003	.14382	-.00005	.00002	Blank
31	CCV2	103.76	1.4910	1.0360	2.0608	1.4833	2.4184	1.9044	73.071	2.3323	.96725	CCV2
32	CCB2	.02220	.00177	.00165	.00025	.00033	.00369	.00017	.00866	.00028	.00013	CCB2
33	A126-01R	.04357	-.00192	.72412	.19900	.00008	.19825	.00007	23.603	.00104	.00143	A126-01R
34	A126-02R	5.9114	-.02513	6.6362	.08328	.00009	.21844	-.00012	9.2146	.00400	.00174	A126-02R
35	A126-03R	.39240	-.01730	4.7827	.29692	-.00001	.32919	-.00014	29.477	.00141	.00211	A126-03R
36	Blank	.00347	-.00031	.00111	.00031	-.00002	.00095	-.00009	.09803	-.00020	-.00015	Blank
37	CCV3	104.08	1.4916	1.0327	2.0633	1.4744	2.4173	1.9001	72.736	2.3271	.96638	CCV3
38	CCB3	.00957	.00147	-.00043	.00028	.00028	.00354	.00002	.00796	.00006	-.00005	CCB3
39	IPA036SB	.01189	.00123	-.00064	.00359	.00011	.00087	-.00020	.10946	.00023	-.00013	IPA036SB
40	IPA036SL	5.0324	2.4505	.50186	.51366	.48726	.45080	.47731	48.892	.48630	.50771	IPA036SL
41	IPA036SC	5.0902	2.4719	.50344	.52097	.49462	.45714	.48147	49.696	.49474	.51360	IPA036SC
42	A092-03A	69.286	.01138	.05883	.91383	.00630	.01133	.16927	30.765	.11673	.04938	A092-03A
43	A092-03	70.356	.01022	.05906	.93375	.00627	.01103	.17087	31.374	.11894	.05011	A092-03
44	A092-03J	14.364	.00130	.01182	.18672	.00122	.00279	.03518	6.3344	.02360	.00959	A092-03J
45	A092-03M	139.65	2.2283	.56500	1.5601	.50280	.46636	.62801	79.969	.64900	.56692	A092-03M
46	A092-03S	135.57	2.2036	.56413	1.5409	.50051	.45842	.62121	80.349	.64092	.56301	A092-03S
47	Blank	.04016	.00182	.00026	.00071	.00013	.00116	.00009	.11904	.00000	.00001	Blank
48	CCV4	103.98	1.4982	1.0296	2.0469	1.4675	2.3996	1.8892	72.837	2.3043	.96567	CCV4
49	CCB4	.01143	.00150	-.00070	.00022	.00031	.00337	-.00002	.00737	.00013	.00010	CCB4
50	A049-04A	5.9148	2.5595	.57420	.55576	.52847	.53808	.52313	50.311	.51810	.54118	A049-04A
51	A049-04T	.05994	.00180	-.00101	.00103	.00019	.03953	.00000	1.8923	.00189	.00196	A049-04T
52	A049-04J	.01458	.00045	-.00055	.00071	.00000	.00821	-.00006	.23475	.00019	.00029	A049-04J
53	A146-03	78.713	.00756	.05509	1.0322	.00682	.01338	.09220	38.634	.12560	.07720	A146-03
54	A146-05	68.007	.00625	.06332	1.1432	.00564	.01058	.02667	22.964	.14941	.07992	A146-05

55	Blank	.02355	-.00073	.00005	.00060	.00000	.00013	-.00008	.10484	-.00010	-.00005	Blank
56	CCV5	104.61	1.5006	1.0280	2.0506	1.4628	2.4026	1.8851	72.383	2.3101	.96711	CCV5
57	CCB5	.01202	.00105	.00037	.00027	.00030	.00331	.00005	.00459	.00014	-.00003	CCB5
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00173	.00002	.00003	.00002	.00000	.00003	-.00003	-.00056	-.00012	.00001	Blank
2	S20			.20284			.11586					S20
3	S21			1.9888			1.1215					S21
4	S22	.39386	.05802									S22
5	S23	3.6828	2.1335									S23
6	S24							.79755				S24
7	S25							8.0070				S25
8	S26								.83333	.31882		S26
9	S27								7.9091	3.2273		S27
10	S28					.10250						S28
11	S29					.41990						S29
12	S30				.02908						.00162	S30
13	S31				.14319						.00638	S31
14	ICV	2.5573	25.142	2.3865	.53330	56.171	2.2955	2.4534	2.3938	57.072	1.0124	ICV
15	ICB	.00067	.00452	.00024	.00035	.03010	.00092	.00093	.00050	.09027	-.00010	ICB
16	MRLA2401	.01069	.21221	.00980	.01000	.93723	.00969	.01026	.00970	.94458	.00915	MRLA2401
17	MRLA2402	.01081	.10569	.00313	.09806	.19166	.00492	.01018	.00992	.91792	.01025	MRLA2402
18	ICSA1	.00145	186.84	-.00430	.00544	187.50	.00068	-.00172	-.00101	.05726	.00054	ICSA1
19	ICSAB1	.55355	186.28	.93421	1.1678	189.01	.45227	1.0356	.96310	77.607	1.0487	ICSAB1
20	CCV1	2.6271	24.806	2.4195	.54108	56.797	2.3139	2.5023	2.4444	58.285	1.0417	CCV1
21	CCB1	.00048	.01719	.00017	.00069	.03572	.00049	.00084	.00022	.10112*	-.00020	CCB1
22	IPA037WB	.00040	.01232	-.00019	.00004	.01564	.00008	.00033	-.00021	.03675	-.00003	IPA037WB
23	IPA037WL	.54989	5.4372	.51462	.00084*	47.828	.48584	.53405	.47366	48.962	.53385	IPA037WL
24	IPA037WC	.54695	5.4058	.51367	.00068*	47.922	.48528	.53573	.47395	49.161	.53496	IPA037WC
25	A126-04A	.58183	8.9371	.53207	.00203	58.149	3.9709	.53870	.54058	50.076	.56372	A126-04A
26	A126-04R	.00208	3.5817	.00066	.00103	12.280	3.6177	.01959	.00273	.99058	.00001	A126-04R
27	A126-04J	.00048	.72879	-.00015	.00038	2.5015	.74453	.00392	.00048	.23769	-.00045	A126-04J
28	A126-04M	.55704	9.0297	.50633	.00173	60.322	4.2517	.55770	.47376	51.589	.53310	A126-04M
29	A126-04S	.56493	9.0376	.50812	.00141	60.371	4.2551	.56171	.47579	51.819	.53771	A126-04S
30	Blank	.00019	-.00063	.00002	.00043	.01370	.00083	.00034	.00016	.14068	-.00032	Blank
31	CCV2	2.6330	24.484	2.4324	.54351	55.851	2.2844	2.5369	2.4588	58.232	1.0334	CCV2
32	CCB2	.00061	.00270	.00002	.00043	.01010	.00057	.00098	.00021	.11852*	-.00017	CCB2
33	A126-01R	.00121	3.1624	.00164	.00188	15.887	4.6706	.00260	.00099	1.3426	-.00076	A126-01R
34	A126-02R	.00497	3.9499	.00212	.00415	6.9480	1.1759	.00953	.00298	1.9181	.00051	A126-02R
35	A126-03R	.00220	4.3383	.00125	.00160	19.724	7.4905	.01710	.00221	1.7043	-.00096	A126-03R
36	Blank	.00003	-.00317	.00007	.00075	.01384	.00139	.00020	-.00017	.06949	-.00161	Blank
37	CCV3	2.6323	24.489	2.4375	.54325	55.478	2.2676	2.5329	2.4565	58.113	1.0294	CCV3
38	CCB3	.00034	-.00146	-.00030	.00066	.02199	.00076	.00064	-.00003	.09362	-.00031	CCB3
39	IPA036SB	.00011	.01157	-.00053	-.00022	.01796	.00118	.00048	-.00032	.07304	-.00028	IPA036SB
40	IPA036SL	.52733	5.2237	.49544	.00047*	46.305	.46800	.54203	.47013	48.272	.49096	IPA036SL
41	IPA036SC	.53299	5.3041	.50199	.00055*	47.133	.47443	.54902	.47531	48.964	.49298	IPA036SC
42	A092-03A	.26778	108.84	.75974	.03276	9.5879	2.9800	.00525	.08402	6.0143	.00714	A092-03A
43	A092-03	.27157	111.18	.77915	.03356	9.7827	3.0418	.00524	.08602	6.0636	.00700	A092-03
44	A092-03J	.05321	22.696	.15556	.00693	1.9689	.61682	.00080	.01618	1.1774	.00127	A092-03J
45	A092-03M	.82869	123.11	1.2405	.08595	60.219	3.4378	.54856	.57896	60.513	.50446	A092-03M
46	A092-03S	.82540	123.41	1.2474	.08101	59.895	3.4410	.54568	.57658	59.594	.49561	A092-03S
47	Blank	.00026	.03516	-.00024	.00056	.01808	.00103	.00037	.00010	.10387	-.00098	Blank
48	CCV4	2.6099	24.480	2.4433	.53694	55.475	2.2575	2.5439	2.4585	57.661	1.0296	CCV4
49	CCB4	.00048	.00144	.00015	.00064	.02004	.00040	.00062*	.00015	.09880	-.00012	CCB4
50	A049-04A	.57549	6.2726	.54312	.00717	51.106	.52250	.52013	.55244	50.849	.57418	A049-04A
51	A049-04T	.00140	.59308	.00013	.00678	4.9936	.01690	.00085	.00687	1.8049	.00367	A049-04T
52	A049-04J	.00043	.11870	-.00027	.00120	1.0161	.00328	.00037	.00134	.38628	-.00032	A049-04J
53	A146-03	.12398	109.05	.48695	.03597	6.3773	5.4955	.00418	.08256	4.9178	.00698	A146-03
54	A146-05	.08054	119.13	.35147	.03148	5.3788	4.3141	.00562	.06386	4.5226	.00495	A146-05

55	Blank	-.00002	.04170	.00000	.00034	.00603	.00140	.00006	-.00007	.02970	-.00043	Blank
56	CCV5	2.6154	24.570	2.4470	.53782	55.047	2.2464*	2.5486	2.4584	57.682	1.0309	CCV5
57	CCB5	.00056	.00079	-.00008	.00071	.01363	.00046	.00072*	.00007	.09553	-.00104	CCB5
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00011	.00099	-.00006	-.00002	.00011	.00000	-.00010	.00096	Blank
2	S20									S20
3	S21									S21
4	S22							.15417		S22
5	S23							1.4794		S23
6	S24		1.0748							S24
7	S25		6.2213							S25
8	S26									S26
9	S27									S27
10	S28				.00654					S28
11	S29				.06159					S29
12	S30	.04610		.13972		.02462	.01638		.56040	S30
13	S31	.22445		.68843		.12033	.08169		5.4154	S31
14	ICV	.50453	62.764	.48555	2.2599	.48718	.48837	1.4596	2.6273	ICV
15	ICB	.00005	.05411	.00025	.00057	.00013	.00068	.00044	-.00020	ICB
16	MRLA2401	.01015	1.0385	.01015	.01098	.00000	.00990	.01021	.02262	MRLA2401
17	MRLA2402	.01012	.50647	.01025	.01110	.00953	.01028	.01046	.00925	MRLA2402
18	ICSA1	-.00006	.06906	.02061	.00036	.00339	.00237	.00164	.00152	ICSA1
19	ICSAB1	1.1096	83.751	.51536	.81273	.99722	.96962	.48319	1.0749	ICSAB1
20	CCV1	.49990	63.733	.49483	2.3301	.49570	.49375	1.5066	2.6740	CCV1
21	CCB1	-.00001	.06494	.00016	.00036	-.00006	.00031	.00036	.00120	CCB1
22	IPA037WB	-.00008	.04002	.00013	-.00017	-.00019	.00048	-.00005	.00377	IPA037WB
23	IPA037WL	.52712	54.061	.50114	.49637	.51997	.51818	.51687	.55723	IPA037WL
24	IPA037WC	.52464	54.203	.50146	.49766	.52250	.51950	.51205	.55383	IPA037WC
25	A126-04A	.51106	152.54	.61604	.49048	.50372	.49735	.53676	.58762	A126-04A
26	A126-04R	-.00019	102.95	.14717	-.00063	.00081	.00218	.00222	.00825	A126-04R
27	A126-04J	-.00018	20.796	.02971	-.00030	.00012	.00049	.00049	.00031	A126-04J
28	A126-04M	.53547	163.17	.65396	.46611	.51990	.51139	.51394	.56113	A126-04M
29	A126-04S	.54022	163.76	.65602	.46651	.52199	.51423	.51893	.55959	A126-04S
30	Blank	-.00005	.13414	.00020	.00021	.00031	.00030	-.00001	.01005	Blank
31	CCV2	.49572	63.835	.49248	2.2938	.50185	.49067	1.4824	2.6608	CCV2
32	CCB2	.00006	.08632	.00012	.00030	.00013	.00025	.00031	-.00026	CCB2
33	A126-01R	-.00012	86.288	.18481	-.00139	.00065	.00128	.00068	.00271	A126-01R
34	A126-02R	-.00024	92.482	.07525	-.00100	.00081	.20636	.01633	.01283	A126-02R
35	A126-03R	-.00012	128.73	.21906	-.00192	.00036	.01711	.00248	.00386	A126-03R
36	Blank	-.00002	.11218	.00008	-.00031	-.00022	.00025	-.00002	.00501	Blank
37	CCV3	.49513	63.630	.49203	2.2933	.50150	.49043	1.4782	2.6571	CCV3
38	CCB3	-.00013	.08589	.00010	.00003	-.00021	.00015	.00015	-.00045	CCB3
39	IPA036SB	-.00030	.07918	.00019	-.00127	.03302	.00000	.00017	.00606	IPA036SB
40	IPA036SL	.49344	52.931	.48301	.45391	.54125	.49761	.50473	.55439	IPA036SL
41	IPA036SC	.49848	53.690	.48757	.45724	.54988	.50346	.51148	.56270	IPA036SC
42	A092-03A	-.00015	.29439	.06348	-.00139	.03930	.99894	.20178	36.767*	A092-03A
43	A092-03	-.00034	.25382	.06460	-.00164	.04077	1.0246	.20475	37.535*	A092-03
44	A092-03J	-.00016	.05667	.01279	-.00023	.00780	.20291	.04057	7.6035	A092-03J
45	A092-03M	.50742	55.130	.57983	.42814	.55504	1.9465	.75724	37.427*	A092-03M
46	A092-03S	.50299	54.762	.57101	.42503	.55338	1.8793	.74726	37.408*	A092-03S
47	Blank	.00007	.05117	.00021	.00009	-.00001	.00104	.00023	.01453	Blank
48	CCV4	.49030	63.114	.48782	2.2945	.50767	.48950	1.4606	2.6636	CCV4
49	CCB4	-.00016	.05184	.00005	-.00009	.00016	.00018	.00011	-.00011	CCB4
50	A049-04A	.51128	130.30	.49714	.50302	.50657	.49404	.53607	.59731	A049-04A
51	A049-04T	.00007	79.045	.02632	.00015	.00027	.00022	.00045	.01131	A049-04T
52	A049-04J	-.00018	15.767	.00529	-.00024	.00015	.00018	.00002	.01056	A049-04J
53	A146-03	-.00036	1.2705	.12784	-.00320	.03892	.57176	.27367	13.853	A146-03
54	A146-05	-.00063	1.5464	.08860	-.00290	.03971	.74126	.30800	6.4630	A146-05

55	Blank	-.00009	.01453	.00006	-.00004	.00014	.00060	.00008	.00714	Blank
56	CCV5	.49080	63.160	.48852	2.2933	.50781	.48798	1.4605	2.6533	CCV5
57	CCB5	-.00017	.05025	.00011	.00037	.00011	.00014	.00012	-.00028	CCB5
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8A019 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
DIGESTOR D

Book #: EIP-098
Batch: 1PA036S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

1/21/11 Start	Temp	1/21/11 End	Temp
11:40	90 °c	13:40	90 °c

Standards	ID	Amount Added (ml) LK 1/25/11
LCS-1	SM1A-13-02-11	~~0.25~~ 0.50
LCS-2	12	~~0.25~~ 0.50 LK 1/2
LCS-3	13	~~0.50~~ 1.0
MS		LK 1/25/11
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10
Digestate Location	ICP	
Extract Location		

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101983555

Prepared By: LK/NT
Standard Added By: LK/TH Witnessed By: LK/TH
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

FileID: IPA036S

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA036S01	IPA036SB	1	g	1/21/11 10:54	100	1	100	1	
11IPA036S02	IPA036SL	1	g	1/21/11 10:54	100	1	100	1	
11IPA036S03	IPA036SC	1	g	1/21/11 10:54	100	1	100	1	
11IPA036S04	A146-03	1.019	g	1/21/11 10:55	100	1	100	0.981	DRIED AND SIEVED
11IPA036S05	A146-05 LK 1/21/11	1.064	g	1/21/11 10:56	100	1	100	0.94	DRIED AND SIEVED
11IPA036S06	A092-03R	1.061	g	1/21/11 10:57	100	1	100	0.943	DRIED AND SIEVED
11IPA036S07	A092-03M	1.061	g	1/21/11 10:57	100	1	100	0.943	DRIED AND SIEVED
11IPA036S08	A092-03S	1.064	g	1/21/11 10:58	100	1	100	0.94	DRIED AND SIEVED

LK 1/21/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/21/11 11:40 Prepared By: LK/NT

☑ Digestion Ended @ 1/21/11 13:40 Checked By: TH

Comments: Date 1/21/2011

TABLE OF CONTENTS

CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11A195**

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1004
GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7072 7073 – 7099
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-31-2011
EMAX Batch No.: 11A195

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 01/22/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CP093-S4-01-01	A195-01	01/19/11	SOIL	CADMIUM
CP093-S4-01-02	A195-02	01/19/11	SOIL	CADMIUM
CP093-S4-02-01	A195-03	01/19/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S4-02-02	A195-04	01/19/11	SOIL	CADMIUM
CP093-S4-03-01	A195-05	01/19/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S4-03-01FD	A195-06	01/19/11	SOIL	CADMIUM
CP093-S4-03-02	A195-07	01/19/11	SOIL	CADMIUM
CP093-S4-04-01	A195-08	01/19/11	SOIL	CADMIUM
CP093-S4-04-02	A195-09	01/19/11	SOIL	CADMIUM
CP093-S4-05-01	A195-10	01/19/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S4-05-02	A195-11	01/19/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Chain of Custody Record

11A195

CH-1002,

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			January 21, 2011	1 of 1
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401			
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**		
Project Name Tar Creek OU4	**Carrier/Waybill Number** 796680039433	**CH2M HILL Project Number:** 413831.CV.01			
Samplers: SP/KT					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Zn	Cd					Comments
1	CP093-S4-01-01	January 19, 2011	10:10	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
2	CP093-S4-01-02	January 19, 2011	10:15	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
3	CP093-S4-02-01	January 19, 2011	10:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
4	CP093-S4-02-02	January 19, 2011	10:40	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
5	CP093-S4-03-01	January 19, 2011	11:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
6	CP093-S4-03-01FD	January 19, 2011	11:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
7	CP093-S4-03-02	January 19, 2011	11:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
8	CP093-S4-04-01	January 19, 2011	14:10	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
9	CP093-S4-04-02	January 19, 2011	14:15	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
10	CP093-S4-05-01	January 19, 2011	14:40	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
11	CP093-S4-05-02	January 19, 2011	14:45	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only

Turnaround Time

7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T - 3.0°C

1. Relinquished By Kui Tan	**Date:** January 21, 2011	**Time:** 18:00	**1. Received By:** FedEX	**Date:**	**Time:**
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:** 1/22/11	0980

Comments
Sieve lead samples with #60 sieve; All samples shall also be analyzed for percent moniture content.

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11A195
☐ EMAX Courier		Recepient J-LUNA
☐ Client Delivery		Date 1-22-11
☑ Third Party FEDEX	796680039433	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler B.0 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: ***A - S/N 101541371*** ***B - S/N 101541382***

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 1/22/11

SRF [signature] Date 01/24/11

PM LP for YC Date 01/24/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	*Cancel the analysis*
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: (281) 721-8534
Kui Tan
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11101012220225

Ship Date: 21JAN11
ActWgt: 30.0 LB
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889

BILL SENDER

Ref # 413831.CV.01/AAB00103032
Invoice #
PO #
Dept #

11A195

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

SATURDAY ### A1
PRIORITY OVERNIGHT

TRK# 0201 7966 8003 9433

X0 AVXA

90501
CA-US
LAX

50DG1/DE77/FEFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11A195

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A195

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of eleven (11) soil samples were received on 01/22/11 for Metals by ICP analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA043SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for A195-11M/S were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Sample A195-04 was reported at DF5 due to high concentration of interfering element (Fe).

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A195
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA043SB	1	NA	01/25/1119:58	01/25/1112:00	ID8A021113	ID8A021111	IPA043S	Method Blank
LCS1S	IPA043SL	1	NA	01/25/1120:01	01/25/1112:00	ID8A021114	ID8A021111	IPA043S	Lab Control Sample (LCS)
LCD1S	IPA043SC	1	NA	01/25/1120:04	01/25/1112:00	ID8A021115	ID8A021111	IPA043S	LCS Duplicate
HA28-0167AS	A193-06A	0.991	NA	01/25/1120:06	01/25/1112:00	ID8A021116	ID8A021111	IPA043S	Analytical Spike Sample
HA28-0167	A193-06R	0.991	NA	01/25/1120:09	01/25/1112:00	ID8A021117	ID8A021111	IPA043S	Field Sample
HA28-0167DL	A193-06J	4.96	NA	01/25/1120:12	01/25/1112:00	ID8A021118	ID8A021111	IPA043S	Diluted Sample
CP093-S4-01-01	A195-01	0.959	18.5	01/25/1120:20	01/25/1112:00	ID8A021121	ID8A021111	IPA043S	Field Sample
CP093-S4-01-02	A195-02	0.962	17.3	01/25/1120:31	01/25/1112:00	ID8A021125	ID8A021123	IPA043S	Field Sample
CP093-S4-03-01FD	A195-06	0.965	18.4	01/25/1120:42	01/25/1112:00	ID8A021129	ID8A021123	IPA043S	Field Sample
CP093-S4-03-02	A195-07	0.960	17.9	01/25/1120:44	01/25/1112:00	ID8A021130	ID8A021123	IPA043S	Field Sample
CP093-S4-04-01	A195-08	0.993	22.0	01/25/1120:47	01/25/1112:00	ID8A021131	ID8A021123	IPA043S	Field Sample
CP093-S4-04-02	A195-09	0.923	17.7	01/25/1120:50	01/25/1112:00	ID8A021132	ID8A021123	IPA043S	Field Sample
CP093-S4-05-02	A195-11	0.972	20.0	01/25/1121:04	01/25/1112:00	ID8A021137	ID8A021135	IPA043S	Field Sample
CP093-S4-05-02MS	A195-11M	0.976	20.0	01/25/1121:07	01/25/1112:00	ID8A021138	ID8A021135	IPA043S	Matrix Spike Sample (MS)
CP093-S4-05-02MSD	A195-11S	0.974	20.0	01/25/1121:09	01/25/1112:00	ID8A021139	ID8A021135	IPA043S	MS Duplicate (MSD)
CP093-S4-02-02	A195-04T	4.77	18.6	01/28/1122:56	01/25/1112:00	ID8A028134	ID8A028126	IPA043S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 10:10
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-01-01	Date Analyzed:	01/25/11 20:20
Lab Samp ID:	A195-01	Dilution Factor:	0.959
Lab File ID:	ID8A021121	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	18.5
Calib. Ref.:	ID8A021111	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.248J	1.18	0.118

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 10:15
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-01-02	Date Analyzed:	01/25/11 20:31
Lab Samp ID:	A195-02	Dilution Factor:	0.962
Lab File ID:	ID8A021125	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	17.3
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.16	0.116

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 10:40
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-02-02	Date Analyzed:	01/28/11 22:56
Lab Samp ID:	A195-04T	Dilution Factor:	4.77
Lab File ID:	ID8A028134	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	18.6
Calib. Ref.:	ID8A028126	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	5.86	0.586

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 11:30
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-03-01FD	Date Analyzed:	01/25/11 20:42
Lab Samp ID:	A195-06	Dilution Factor:	0.965
Lab File ID:	ID8A021129	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	18.4
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	NO	1.18	0.118

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 11:35
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-03-02	Date Analyzed:	01/25/11 20:44
Lab Samp ID:	A195-07	Dilution Factor:	0.960
Lab File ID:	ID8A021130	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	17.9
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.17	0.117

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 14:10
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-04-01	Date Analyzed:	01/25/11 20:47
Lab Samp ID:	A195-08	Dilution Factor:	0.993
Lab File ID:	ID8A021131	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	22.0
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.27	0.127

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 14:15
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-04-02	Date Analyzed:	01/25/11 20:50
Lab Samp ID:	A195-09	Dilution Factor:	0.923
Lab File ID:	ID8A021132	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	17.7
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.12	0.112

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 14:45
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-05-02	Date Analyzed:	01/25/11 21:04
Lab Samp ID:	A195-11	Dilution Factor:	0.972
Lab File ID:	ID8A021137	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	20.0
Calib. Ref.:	ID8A021135	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.22	0.122

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	MBLK1S	Date Analyzed:	01/25/11 19:58
Lab Samp ID:	IPA043SB	Dilution Factor:	1
Lab File ID:	ID8A021113	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	NA
Calib. Ref.:	ID8A021111	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A195
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA043SB	IPA043SL	IPA043SC		
LAB FILE ID:	ID8A021113	ID8A021114	ID8A021115		
DATIME EXTRCTD:	01/25/1112:00	01/25/1112:00	01/25/1112:00	DATE COLLECTED:	NA
DATIME ANALYZD:	01/25/1119:58	01/25/1120:01	01/25/1120:04	DATE RECEIVED:	01/25/11
PREP. BATCH:	IPA043S	IPA043S	IPA043S		
CALIB. REF:	ID8A021111	ID8A021111	ID8A021111		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.3	99	50	49.6	99	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A195
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	20.0
DILTN FACTR:	0.972	0.976	0.974		
SAMPLE ID:	CP093-S4-05-02				
CONTROL NO.:	A195-11	A195-11M	A195-11S		
LAB FILE ID:	ID8A021137	ID8A021138	ID8A021139		
DATIME EXTRCTD:	01/25/1112:00	01/25/1112:00	01/25/1112:00	DATE COLLECTED:	01/19/11 14:45
DATIME ANALYZD:	01/25/1121:04	01/25/1121:07	01/25/1121:09	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA043S	IPA043S	IPA043S		
CALIB. REF:	ID8A021135	ID8A021135	ID8A021135		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	61	59.8	98	60.9	60.2	99	1	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A195
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.991	4.96		
SAMPLE ID:	HA28-0167	HA28-0167DL		
EMAX SAMP ID:	A193-06R	A193-06J		
LAB FILE ID:	ID8A021117	ID8A021118		
DATE EXTRACTED:	01/25/1112:00	01/25/1112:00	DATE COLLECTED:	01/21/11 13:00
DATE ANALYZED:	01/25/1120:09	01/25/1120:12	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA043S	IPA043S		
CALIB. REF:	ID8A021111	ID8A021111		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.245J	ND	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A195
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.991	0.991		
SAMPLE ID:	HA28-0167			
CONTROL NO.:	A193-06R	A193-06A		
LAB FILE ID:	ID8A021117	ID8A021116		
DATIME EXTRCTD:	01/25/1112:00	01/25/1112:00	DATE COLLECTED:	01/21/11 13:00
DATIME ANALYZD:	01/25/1120:09	01/25/1120:06	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA043S	IPA043S		
CALIB. REF:	ID8A021111	ID8A021111		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.245J	49.6	46.9	94	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A195
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA043SB	1	NA	01/25/1119:58	01/25/1112:00	ID8A021113	ID8A021111	IPA043S	Method Blank
LCS1S	IPA043SL	1	NA	01/25/1120:01	01/25/1112:00	ID8A021114	ID8A021111	IPA043S	Lab Control Sample (LCS)
LCD1S	IPA043SC	1	NA	01/25/1120:04	01/25/1112:00	ID8A021115	ID8A021111	IPA043S	LCS Duplicate
HA28-0167AS	A193-06A	0.991	NA	01/25/1120:06	01/25/1112:00	ID8A021116	ID8A021111	IPA043S	Analytical Spike Sample
HA28-0167	A193-06R	0.991	NA	01/25/1120:09	01/25/1112:00	ID8A021117	ID8A021111	IPA043S	Field Sample
HA28-0167DL	A193-06J	4.96	NA	01/25/1120:12	01/25/1112:00	ID8A021118	ID8A021111	IPA043S	Diluted Sample
CP093-S4-D2-D1	A195-D3	0.983	19.3	01/25/1120:34	01/25/1112:00	ID8A021126	ID8A021123	IPA043S	Field Sample
CP093-S4-03-01	A195-05	0.966	17.6	01/25/1120:39	01/25/1112:00	ID8A021128	ID8A021123	IPA043S	Field Sample
CP093-S4-05-01	A195-10	0.987	20.0	D1/25/1120:53	D1/25/1112:D0	ID8A021133	ID8A021123	IPA043S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 10:35
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-02-01	Date Analyzed:	01/25/11 20:34
Lab Samp ID:	A195-03	Dilution Factor:	0.983
Lab File ID:	ID8A021126	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	19.3
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.68	1.22	0.122
Zinc	501	1.22	0.609

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 11:30
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-03-01	Date Analyzed:	01/25/11 20:39
Lab Samp ID:	A195-05	Dilution Factor:	0.966
Lab File ID:	ID8A021128	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	17.6
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.17	0.117
Zinc	44.4	1.17	0.586

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 14:40
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	CP093-S4-05-01	Date Analyzed:	01/25/11 20:53
Lab Samp ID:	A195-10	Dilution Factor:	0.987
Lab File ID:	ID8A021133	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	20.0
Calib. Ref.:	ID8A021123	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.23	0.123
Zinc	52.8	1.23	0.617

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A195	Date Extracted:	01/25/11 12:00
Sample ID:	MBLK1S	Date Analyzed:	01/25/11 19:58
Lab Samp ID:	IPA043SB	Dilution Factor:	1
Lab File ID:	ID8A021113	Matrix :	SOIL
Ext Btch ID:	IPA043S	% Moisture :	NA
Calib. Ref.:	ID8A021111	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A195
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA043SB	IPA043SL	IPA043SC		
LAB FILE ID:	ID8A021113	ID8A021114	ID8A021115		
DATIME EXTRCTD:	01/25/1112:00	01/25/1112:00	01/25/1112:00	DATE COLLECTED:	NA
DATIME ANALYZD:	01/25/1119:58	01/25/1120:01	01/25/1120:04	DATE RECEIVED:	01/25/11
PREP. BATCH:	IPAD43S	IPA043S	IPA043S		
CALIB. REF:	ID8A021111	ID8A021111	ID8A021111		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.3	99	50	49.6	99	0	80-120	20
Zinc	ND	50	57	114	50	57.3	115	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A195
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.991	4.96		
SAMPLE ID:	HA28-0167	HA28-0167DL		
EMAX SAMP ID:	A193-06R	A193-06J		
LAB FILE ID:	ID8A021117	ID8A021118		
DATE EXTRACTED:	01/25/1112:00	01/25/1112:00	DATE COLLECTED:	01/21/11 13:00
DATE ANALYZED:	01/25/1120:09	01/25/1120:12	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA043S	IPA043S		
CALIB. REF:	ID8A021111	ID8A021111		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.245J	ND	NA	10
Zinc	16.4	15.4	6	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A195
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.991	0.991		
SAMPLE ID:	HA28-0167			
CONTROL NO.:	A193-06R	A193-06A		
LAB FILE ID:	ID8A021117	ID8A021116		
DATIME EXTRCTD:	01/25/1112:00	01/25/1112:00	DATE COLLECTED:	01/21/11 13:00
DATIME ANALYZD:	01/25/1120:09	01/25/1120:06	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA043S	IPA043S		
CALIB. REF:	ID8A021111	ID8A021111		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.245J	49.6	46.9	94	75-125
Zinc	16.4	49.6	70.3	109	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/25/11 14:40
End Date: 1/25/11 21:29

SOP #	Rev. #
☑ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments:

- CCB4 K, Na >LOD
- CCV5 ↑Na
- A140-01A TCLP ↑Ag recovery
- ICSAB Cu 111%
- CCB10 - CCB13 Zn > 3X IDL < MDL However, associated samples detected >200X blank concentration levels.
- A195-04 Fe > LOQ (Fe interfering element for Cd)

Book #: AD8-017
Instrument No.: D8
Analytical Batch: 1D8A021
Analytical Sequence: S11A690 (V29)
Method File: 11A6010 (V29)
Database: EMAX13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-3101	S30	SM1B14-0203
S1	NA	S31	0204
S2		ICV	2701
S3		CCV	3001
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL3	SM1B14-1201
S10		MRL4	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B12-100-05		
S21	SM1B14-01-01		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Analyzed By: TH
Date: 1/25/11

SEQUENCE FILE : ID8A021

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A021001	Blank	14:40	01/25/11	1.000
ID8A021002	S20	14:43	01/25/11	1.000
ID8A021003	S21	14:46	01/25/11	1.000
ID8A021004	S22	14:49	01/25/11	1.000
ID8A021005	S23	14:52	01/25/11	1.000
ID8A021006	S24	14:55	01/25/11	1.000
ID8A021007	S25	14:58	01/25/11	1.000
ID8A021008	S26	15:01	01/25/11	1.000
ID8A021009	S27	15:03	01/25/11	1.000
ID8A021010	S28	15:07	01/25/11	1.000
ID8A021011	S29	15:09	01/25/11	1.000
ID8A021012	S30	15:12	01/25/11	1.000
ID8A021013	S31	15:15	01/25/11	1.000
ID8A021014	ICV	15:18	01/25/11	1.000
ID8A021015	ICB	15:20	01/25/11	1.000
ID8A021016	MRLA2503	15:23	01/25/11	1.000
ID8A021017	MRLA2504	15:26	01/25/11	1.000
ID8A021018	ICSA1	15:29	01/25/11	1.000
ID8A021019	ICSAB1	15:32	01/25/11	1.000
ID8A021020	CCV1	15:35	01/25/11	1.000
ID8A021021	CCB1	15:38	01/25/11	1.000
ID8A021022	IPA042WB	15:41	01/25/11	1.000
ID8A021023	IPA042WL	15:45	01/25/11	1.000
ID8A021024	IPA042WC	15:48	01/25/11	1.000
ID8A021025	A197-02A	15:50	01/25/11	1.000
ID8A021026	A197-02	15:53	01/25/11	1.000
ID8A021027	A197-02J	15:55	01/25/11	5.000
ID8A021028	A197-02M	15:58	01/25/11	1.000
ID8A021029	A197-02S	16:01	01/25/11	1.000
ID8A021030	A197-01	16:03	01/25/11	1.000
ID8A021031	Blank	16:06	01/25/11	1.000
ID8A021032	CCV2	16:09	01/25/11	1.000
ID8A021033	CCB2	16:12	01/25/11	1.000
ID8A021034	IPA038SQ	16:14	01/25/11	1.000
ID8A021035	IPA038SX	16:17	01/25/11	1.000
ID8A021036	IPA038SY	16:20	01/25/11	1.000
ID8A021037	A188-20A	16:22	01/25/11	1.000
ID8A021038	A188-20W	16:25	01/25/11	1.000
ID8A021039	A188-20J	16:28	01/25/11	5.000
ID8A021040	Blank	16:30	01/25/11	1.000
ID8A021041	CCV3	16:33	01/25/11	1.000
ID8A021042	CCB3	16:36	01/25/11	1.000
ID8A021043	IPA039WQ	16:39	01/25/11	1.000
ID8A021044	IPA039WX	16:42	01/25/11	1.000
ID8A021045	IPA039WY	16:44	01/25/11	1.000
ID8A021046	A137-04A	16:47	01/25/11	1.000
ID8A021047	A137-04W	16:50	01/25/11	1.000
ID8A021048	A137-04J	16:53	01/25/11	5.000
ID8A021049	A137-04G	16:55	01/25/11	1.000
ID8A021050	A137-04H	16:58	01/25/11	1.000
ID8A021051	A137-02W	17:01	01/25/11	1.000
ID8A021052	Blank	17:04	01/25/11	1.000
ID8A021053	CCV4	17:07	01/25/11	1.000
ID8A021054	CCB4	17:10	01/25/11	1.000

ID8A021055	A137-03W	17:13	01/25/11	1.000
ID8A021056	A152-01W	17:16	01/25/11	1.000
ID8A021057	A152-02W	17:19	01/25/11	1.000
ID8A021058	A152-03W	17:22	01/25/11	1.000
ID8A021059	A161-02W	17:25	01/25/11	1.000
ID8A021060	A161-03W	17:28	01/25/11	1.000
ID8A021061	Blank	17:31	01/25/11	1.000
ID8A021062	CCV5	17:34	01/25/11	1.000
ID8A021063	CCB5	17:36	01/25/11	1.000
ID8A021064	A135-02	17:39	01/25/11	1.000
ID8A021065	A135-03	17:42	01/25/11	1.000
ID8A021066	A135-04	17:45	01/25/11	1.000
ID8A021067	A135-05	17:48	01/25/11	1.000
ID8A021068	A135-06	17:51	01/25/11	1.000
ID8A021069	A135-07	17:55	01/25/11	1.000
ID8A021070	Blank	17:58	01/25/11	1.000
ID8A021071	CCV6	18:00	01/25/11	1.000
ID8A021072	CCB6	18:03	01/25/11	1.000
ID8A021073	TXA010SB	18:06	01/25/11	1.000
ID8A021074	A112-01A	18:09	01/25/11	1.000
ID8A021075	A112-01	18:12	01/25/11	1.000
ID8A021076	A112-01J	18:15	01/25/11	5.000
ID8A021077	A112-01M	18:17	01/25/11	1.000
ID8A021078	A112-01S	18:20	01/25/11	1.000
ID8A021079	Blank	18:23	01/25/11	1.000
ID8A021080	Blank	18:26	01/25/11	1.000
ID8A021081	CCV7	18:28	01/25/11	1.000
ID8A021082	CCB7	18:31	01/25/11	1.000
ID8A021083	TXA011WB	18:34	01/25/11	1.000
ID8A021084	A140-01A	18:37	01/25/11	1.000
ID8A021085	A140-01	18:40	01/25/11	1.000
ID8A021086	A140-01J	18:42	01/25/11	5.000
ID8A021087	A140-01M	18:45	01/25/11	1.000
ID8A021088	A140-01S	18:48	01/25/11	1.000
ID8A021089	Blank	18:51	01/25/11	1.000
ID8A021090	Blank	18:54	01/25/11	1.000
ID8A021091	CCV8	18:56	01/25/11	1.000
ID8A021092	CCB8	18:59	01/25/11	1.000
ID8A021093	IPA035WB	19:02	01/25/11	1.000
ID8A021094	IPA035WL	19:05	01/25/11	1.000
ID8A021095	IPA035WC	19:07	01/25/11	1.000
ID8A021096	A755-01A	19:10	01/25/11	1.000
ID8A021097	A755-01	19:13	01/25/11	1.000
ID8A021098	A755-01D	19:16	01/25/11	1.000
ID8A021099	A755-01J	19:19	01/25/11	5.000
ID8A021100	A755-01M	19:21	01/25/11	1.000
ID8A021101	A755-01S	19:24	01/25/11	1.000
ID8A021102	Blank	19:27	01/25/11	1.000
ID8A021103	CCV9	19:30	01/25/11	1.000
ID8A021104	CCB9	19:32	01/25/11	1.000
ID8A021105	A498-01	19:35	01/25/11	1.000
ID8A021106	A499-01	19:38	01/25/11	1.000
ID8A021107	Blank	19:41	01/25/11	1.000
ID8A021108	Blank	19:44	01/25/11	1.000
ID8A021109	ICSA2	19:47	01/25/11	1.000
ID8A021110	ICSAB2	19:50	01/25/11	1.000
ID8A021111	CCV10	19:53	01/25/11	1.000

IDBA021112	CCB10	19:56	01/25/11	1.000
IDBA021113	IPA043SB	19:58	01/25/11	1.000
IDBA021114	IPA043SL	20:01	01/25/11	1.000
IDBA021115	IPA043SC	20:04	01/25/11	1.000
IDBA021116	A193-06A	20:06	01/25/11	1.000
IDBA021117	A193-06R	20:09	01/25/11	1.000
IDBA021118	A193-06J	20:12	01/25/11	5.000
IDBA021119	A193-06U	20:14	01/25/11	1.000
IDBA021120	A193-06V	20:17	01/25/11	1.000
IDBA021121	A195-01	20:20	01/25/11	1.000
IDBA021122	Blank	20:22	01/25/11	1.000
ID8A021123	CCV11	20:25	01/25/11	1.000
ID8A021124	CCB11	20:28	01/25/11	1.000
IDBA021125	A195-02	20:31	01/25/11	1.000
ID8A021126	A195-03	20:34	01/25/11	1.000
ID8A021127	A195-04	20:36	01/25/11	1.000
ID8A021128	A195-05	20:39	01/25/11	1.000
ID8A021129	A195-06	20:42	01/25/11	1.000
ID8A021130	A195-07	20:44	01/25/11	1.000
ID8A021131	A195-08	20:47	01/25/11	1.000
ID8A021132	A195-09	20:50	01/25/11	1.000
ID8A021133	A195-10	20:53	01/25/11	1.000
ID8A021134	Blank	20:55	01/25/11	1.000
ID8A021135	CCV12	20:58	01/25/11	1.000
ID8A021136	CCB12	21:01	01/25/11	1.000
ID8A021137	A195-11	21:04	01/25/11	1.000
ID8A02113B	A195-11M	21:07	01/25/11	1.000
ID8A021139	A195-11S	21:09	01/25/11	1.000
ID8A021140	Blank	21:12	01/25/11	1.000
ID8A021141	CCV13	21:15	01/25/11	1.000
ID8A021142	CCB13	21:18	01/25/11	1.000
ID8A021143	BLANK1	21:21	01/25/11	1.000
ID8A021144	BLANK2	21:23	01/25/11	1.000
IDBA021145	BLANK3	21:26	01/25/11	1.000
ID8A021146	BLANK4	21:29	01/25/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A021 DATE : 01/25/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	103	99	103	104	100	98	99	102	97	95	102	101	96	107	96	93	98	96	97	102	102	107	98	93	99	99	98	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2503	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2504	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	95	----	----	----	----	----	----	95	----	----	----	93	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	96	105	105	112	98	99	93	94	93	96	110	92	94	116	96	91	103	96	105	104	111	113	103	82	100	97	97	107
CCV1	103	104	104	106	99	99	98	99	97	98	104	98	98	110	95	94	102	97	98	103	103	107	99	94	104	98	99	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA042WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA042WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA042WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	104	102	103	106	99	99	97	98	97	98	106	100	97	110	95	94	102	98	98	102	104	107	98	93	103	99	100	107
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA038SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA038SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA038SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A188-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A188-20W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A188-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	105	104	106	100	100	98	100	98	98	105	99	98	110	95	95	103	98	98	104	104	107	99	95	105	98	100	108
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	106	106	104	109	101	100	96	100	96	99	107	97	99	113*	95	95	104	98	100	104	104	110	101	93	107	98	99	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A137-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A152-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A152-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A152-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A161-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A161-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	107	107	104	109	101	100	96	100	96	98	107	97	98	115*	96	95	104	98	101	104	104	111*	101	94	107	98	99	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	108	108	104	110	102	100	95	99	95	99	109	96	99	116*	95	94	105	99	101	105	104	111*	102	94	108	98	98	105
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXA010SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	107	107	104	109	101	100	96	101	96	98	107	96	98	114*	96	95	104	98	101	105	104	110	101	94	107	97	99	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXA011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	105	107	106	109	101	100	99	102	98	98	105	98	97	112*	97	95	103	98	101	105	104	110	100	96	107	97	100	108
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035W8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	107	106	108	102	101	100	104	100	97	104	100	97	111*	99	96	102	97	101	105	104	109	100	96	106	98	100	109
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A499-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	97	----	----	----	----	----	----	98	----	----	----	94	----	----	100	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	97	107	106	114	99	100	93	95	93	95	111	92	93	118	97	91	103	95	106	105	111	115	104	83	101	96	97	106
CCV10	108	108	106	110	101	100	97	99	96	98	108	96	98	115*	94	93	105	98	101	106	104	111*	101	95	107	98	99	106

CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06U	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	106	106	104	109	101	100	96	99	96	98	107	97	98	114*	95	93	104	98	100	104	104	110	100	94	106	97	99	106
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	106	107	105	108	102	101	99	102	99	97	105	99	97	112*	97	95	103	97	100	105	105	109	100	96	106	98	100	108
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	107	109	108	109	102	101	101	104	100	97	106	100	97	112*	99	96	103	97	100	107	105	110	100	98	107	98	101	109
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A021 (SOIL) DATE : 01/25/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	17.2	2.28	.490	.440	.280	2.88	.120	30.4	.350	.140	.220	1.25	.380	.160	13.6	.410	.470	.240	99.4	-.010	.160	41.0	.210	.090	.130	.050	.290	1.000
MRLA2503	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2504	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.53	.990	1.22	-.150	-5.68	-1.42	----	1.37	-.690	1.09	----	-2.40	5.74	----	.520	-1.98	-1.06	93.4	1.03	.210	64.3	20.7	.290	3.15	8.84	1.54	3.06
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	35.8	1.30	.130	.360	.300	2.91	.120	46.4	.130	.240	.300	13.9	.410	.020	32.4	.550	.500	.100	117	-.560	.120	57.6	.200	.100	.260	.020	.250	.070
IPA042WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA042WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA042WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A197-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	20.8	2.74	-1.33	.420	.290	2.09	.220	20.4	.300	.190	.440	3.12	.740	.070	16.3	.530	.720	120	80.7	-.050	.170	53.1	.170	.340	-.090	.390	.320	.360
IPA038SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA038SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA038SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A188-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A188-20W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A188-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	3.15	1.55	-.970	.280	.130	1.96	-.020	7.90	-.020	.080	.170	-.860	.250	.010	8.87	.300	.470	-.140	68.2	-1.09	.010	32.4	.070	-.250	.000	-.030	.170	-.010
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	19.3	2.92	-.170	.850	.400	3.07	.260	86.0	.200	.170	.800	1.97	.570	.660	18.4	.690	.690	.200	135	-1.20	.070	150	.280	.200	.030	.190	.210	3.40

A137-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A152-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A152-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A152-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A161-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A161-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	14.2	2.20	-.210	.440	.290	2.73	.140	23.1	.230	.230	.730	-.330	.380	.040	14.4	.530	.630	.190	106	-.490	.170	128	.230	.090	.100	-.090	.210	.530
A135-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	19.5	1.62	-.970	.510	.340	2.37	.150	24.0	.210	.210	.960	1.88	-.140	-.220	15.2	.550	.680	.180	132	-.780	.100	156	.220	.200	-.150	.120	.190	.560
TXA010SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A112-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	24.0	1.89	-.280	.710	.400	3.10	.200	23.6	.420	.200	.990	2.93	.510	.360	19.0	.750	.730	.080	155	-.220	.070	238	.220	-.240	.190	.040	.420	.570
TXA011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	30.5	2.02	-.880	.760	.480	3.54	.300	27.4	.480	.230	.730	5.20	.570	.250	17.5	.990	.680	.290	322	-.400	.200	343	.230	.420	.030	.080	.350	.610
IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A755-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	64.2	3.02	-.610	4.39	1.17	3.92	1.24	947	1.58	.800	1.66	21.9	1.62	.720	43.5	2.22	1.50	1.73	258	.540	.360	275	.700	1.18	.440	.630	1.08	45.3
A498-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A499-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	5.26	-1.34	4.41	-.240	-2.36	-1.46	----	1.47	-.390	.900	----	-2.69	6.50	----	.860	-2.07	-.870	767	2.41	.350	2579	20.2	-.500	3.36	8.52	1.35	1.98
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCB10	24.1	1.42	-.020	.610	.180	2.36	.010	193	-.020	.180	.600	10.0	.640	.550	21.5	.400	.560	.010	388	-.250	.140	807	.230	.080	.150	.110	.250	8.59
IPA043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06U	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A193-06V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	6.89	2.06	-.130	.890	.170	2.15	.050	160	.070	.070	.660	.420	-.070	.290	6.72	.430	.550	-.040	126	-.860	.080	228	.120	-.190	.320	-.120	.130	8.91
A195-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	9.07	2.32	-.190	.860	.260	1.81	.130	164	.130	.300	.510	3.01	.240	.480	11.4	.490	.610	.190	52.8	-.670	.150	82.3	.170	-.270	.130	.360	.180	9.00
A195-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	6.84	1.31	-.060	.940	.250	2.02	.130	168	.130	.340	.400	6.50	.340	.410	13.5	.630	.460	.220	82.2	-.610	.050	69.9	.170	-.070	-.230	.350	.180	9.24
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A021001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8A021002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8A021003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8A021004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8A021005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8A021006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8A021007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8A021008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8A021009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8A021010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8A021011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8A021012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8A021013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8A021014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A021015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLA2503		ID8A021016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2504		ID8A021017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A021018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A021019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A021020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A021021			1	☒	3XIDL	None
22	18	2	6	2	QC	IPA042WB		ID8A021022			1	☒	1/2LOQ	None
23	19	2	7	2	QC	IPA042WL		ID8A021023			1	☒	LCS	None
24	20	2	8	2	QC	IPA042WC		ID8A021024			1	☒	LCS	None
25	21	2	9	2	Unk	A197-02A		ID8A021025			1	☒	unk	—
26	22	2	10	2	Unk	A197-02		ID8A021026			1	☒	unk	—
27	23	2	11	2	Unk	A197-02J		ID8A021027			1	☒	unk	—
28	24	2	12	2	Unk	A197-02M		ID8A021028			1	☒	unk	—
29	25	2	1	3	Unk	A197-02S		ID8A021029			1	☒	unk	—
30	26	2	2	3	Unk	A197-01		ID8A021030			1	☒	unk	—
31	27	2	3	3	Blank	Blank		ID8A021031			1	☐		—
32	28	2	4	3	QC	CCV2		ID8A021032			1	☒	CCV	None
33	29	2	5	3	QC	CCB2		ID8A021033			1	☒	3XIDL	None
34	9	2	9	1	QC	IPA038SQ		ID8A021034			1	☒	1/2LOQ	None
35	10	2	10	1	QC	IPA038SX		ID8A021035			1	☒	LCS	None
36	11	2	11	1	QC	IPA038SY		ID8A021036			1	☒	LCS	None
37	12	2	12	1	Unk	A188-20A		ID8A021037			1	☒	unk	—
38	13	2	1	2	Unk	A188-20W		ID8A021038			1	☒	unk	—
39	14	2	2	2	Unk	A188-20J		ID8A021039			1	☒	unk	—

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	15	2	3	2	Blank	Blank		ID8A021040			1	☐		---
41	16	2	4	2	QC	CCV3		ID8A021041			1	☒	CCV	None
42	17	2	5	2	QC	CCB3		ID8A021042			1	☒	3XIDL	None
43	30	2	6	3	QC	IPA039WQ		ID8A021043			1	☒	1/2LOQ	None
44	31	2	7	3	QC	IPA039WX		ID8A021044			1	☒	LCS	None
45	32	2	8	3	QC	IPA039WY		ID8A021045			1	☒	LCS	None
46	33	2	9	3	Unk	A137-04A		ID8A021046			1	☒	unk	---
47	34	2	10	3	Unk	A137-04W		ID8A021047			1	☒	unk	---
48	35	2	11	3	Unk	A137-04J		ID8A021048			1	☒	unk	---
49	36	2	12	3	Unk	A137-04G		ID8A021049			1	☒	unk	---
50	37	2	1	4	Unk	A137-04H		ID8A021050			1	☒	unk	---
51	38	2	2	4	Unk	A137-02W		ID8A021051			1	☒	unk	---
52	39	2	3	4	Blank	Blank		ID8A021052			1	☐		---
53	40	2	4	4	QC	CCV4		ID8A021053			1	☒	CCV	None
54	41	2	5	4	QC	CCB4	K, Na 7LOD	ID8A021054			1	☒	3XIDL	None
55	42	2	6	4	Unk	A137-03W		ID8A021055			1	☒	unk	---
56	43	2	7	4	Unk	A152-01W		ID8A021056			1	☒	unk	---
57	44	2	8	4	Unk	A152-02W		ID8A021057			1	☒	unk	---
58	45	2	9	4	Unk	A152-03W		ID8A021058			1	☒	unk	---
59	46	2	10	4	Unk	A161-02W		ID8A021059			1	☒	unk	---
60	47	2	11	4	Unk	A161-03W		ID8A021060			1	☒	unk	---
61	48	2	12	4	Blank	Blank		ID8A021061			1	☐		---
62	49	2	1	5	QC	CCV5	T Na	ID8A021062			1	☒	CCV	None
63	50	2	2	5	QC	CCB5		ID8A021063			1	☒	3XIDL	None
64	51	2	3	5	Unk	A135-02		ID8A021064			1	☒	unk	---
65	52	2	4	5	Unk	A135-03		ID8A021065			1	☒	unk	---
66	53	2	5	5	Unk	A135-04		ID8A021066			1	☒	unk	---
67	54	2	6	5	Unk	A135-05		ID8A021067			1	☒	unk	---
68	55	2	7	5	Unk	A135-06		ID8A021068			1	☒	unk	---
69	56	2	8	5	Unk	A135-07		ID8A021069			1	☒	unk	---
70	57	2	9	5	Blank	Blank		ID8A021070			1	☐		---
71	58	2	10	5	QC	CCV6		ID8A021071			1	☒	CCV	None
72	59	2	11	5	QC	CCB6		ID8A021072			1	☒	3XIDL	None
73	60	2	12	5	QC	TXA010SB	TCLP	ID8A021073			1	☒	1/2LOQ	None
74	61	3	1	1	Unk	A112-01A	TCLP	ID8A021074			1	☒	unk	---
75	62	3	2	1	Unk	A112-01	TCLP	ID8A021075			1	☒	unk	---
76	63	3	3	1	Unk	A112-01J	TCLP	ID8A021076			1	☒	unk	---
77	64	3	4	1	Unk	A112-01M	TCLP	ID8A021077			1	☒	unk	---
78	65	3	5	1	Unk	A112-01S	TCLP	ID8A021078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
79	66	3	6	1	Blank	Blank		ID8A021079			1	☐		---
80	67	3	7	1	Blank	Blank		ID8A021080			1	☐		---
81	68	3	8	1	QC	CCV7		ID8A021081			1	☒	CCV	None
82	69	3	9	1	QC	CCB7		ID8A021082			1	☒	3XIDL	None
83	70	3	10	1	QC	TXA011WB	TCLP	ID8A021083			1	☒	1/2LOQ	None
84	71	3	11	1	Unk	A140-01A	TCLP TAs	ID8A021084			1	☒	unk	---
85	72	3	12	1	Unk	A140-01	TCLP	ID8A021085			1	☒	unk	---
86	73	3	1	2	Unk	A140-01J	TCLP	ID8A021086			1	☒	unk	---
87	74	3	2	2	Unk	A140-01M	TCLP	ID8A021087			1	☒	unk	---
88	75	3	3	2	Unk	A140-01S	TCLP	ID8A021088			1	☒	unk	---
89	76	3	4	2	Blank	Blank		ID8A021089			1	☐		---
90	77	3	5	2	Blank	Blank		ID8A021090			1	☐		---
91	78	3	6	2	QC	CCV8		ID8A021091			1	☒	CCV	None
92	79	3	7	2	QC	CCB8		ID8A021092			1	☒	3XIDL	None
93	80	3	8	2	QC	IPA035WB		ID8A021093			1	☒	1/2LOQ	None
94	81	3	9	2	QC	IPA035WL		ID8A021094			1	☒	LCS-200.7	None
95	82	3	10	2	QC	IPA035WC		ID8A021095			1	☒	LCS-200.7	None
96	83	3	11	2	Unk	A755-01A		ID8A021096			1	☒	unk	---
97	84	3	12	2	Unk	A755-01		ID8A021097			1	☒	unk	---
98	85	3	1	3	Unk	A755-01D		ID8A021098			1	☒	unk	---
99	86	3	2	3	Unk	A755-01J		ID8A021099			1	☒	unk	---
100	87	3	3	3	Unk	A755-01M		ID8A021100			1	☒	unk	---
101	88	3	4	3	Unk	A755-01S		ID8A021101			1	☒	unk	---
102	89	3	5	3	Blank	Blank		ID8A021102			1	☐		---
103	90	3	6	3	QC	CCV9		ID8A021103			1	☒	CCV	None
104	91	3	7	3	QC	CCB9		ID8A021104			1	☒	3XIDL	None
105	92	3	8	3	Unk	A498-01		ID8A021105			1	☒	unk	---
106	93	3	9	3	Unk	A499-01		ID8A021106			1	☒	unk	---
107	94	3	10	3	Blank	Blank		ID8A021107			1	☐		---
108	95	3	11	3	Blank	Blank		ID8A021108			1	☐		---
109	96	3	12	3	QC	ICSA2		ID8A021109			1	☒	ICSA	None
110	97	3	1	4	QC	ICSAB2	TCu 111%	ID8A021110			1	☒	ICSAB10%	None
111	98	3	2	4	QC	CCV10		ID8A021111			1	☒	CCV	None
112	99	3	3	4	QC	CCB10	Zn 6.59 ppb	ID8A021112			1	☒	3XIDL	None
113	100	3	4	4	QC	IPA034SB 43		ID8A021113			1	☒	1/2LOQ	None
114	101	3	5	4	QC	IPA034SL 43	TH 1/26/11	ID8A021114			1	☒	LCS	None
115	102	3	6	4	QC	IPA034SC 43		ID8A021115			1	☒	LCS	None
116	103	3	7	4	Unk	A193-06A		ID8A021116			1	☒	unk	---
117	104	3	8	4	Unk	A193-06R		ID8A021117			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	105	3	9	4	Unk	A193-06J		ID8A021118			1	☒	unk	—
119	106	3	10	4	Unk	A193-06U		ID8A021119			1	☒	unk	—
120	107	3	11	4	Unk	A193-06V		ID8A021120			1	☒	unk	—
121	108	3	12	4	Unk	A195-01	593 ppb	ID8A021121			1	☒	unk	—
122	109	3	1	5	Blank	Blank		ID8A021122			1	☐		—
123	110	3	2	5	QC	CCV11		ID8A021123			1	☒	CCV	None
124	111	3	3	5	QC	CCB11	8.91 ppb	ID8A021124			1	☒	3XIDL	None
125	112	3	4	5	Unk	A195-02	372 ppb	ID8A021125			1	☒	unk	—
126	113	3	5	5	Unk	A195-03	4115	ID8A021126			1	☒	unk	—
127	114	3	6	5	Unk	A195-04	523	ID8A021127			1	☒	unk	—
128	115	3	7	5	Unk	A195-05	378	ID8A021128			1	☒	unk	—
129	116	3	8	5	Unk	A195-06	378	ID8A021129			1	☒	unk	—
130	117	3	9	5	Unk	A195-07	438	ID8A021130			1	☒	unk	—
131	118	3	10	5	Unk	A195-08	487	ID8A021131			1	☒	unk	—
132	119	3	11	5	Unk	A195-09	264	ID8A021132			1	☒	unk	—
133	120	3	12	5	Unk	A195-10	428 ✓	ID8A021133			1	☒	unk	—
134	121	4	1	1	Blank	Blank		ID8A021134			1	☐		—
135	122	4	2	1	QC	CCV12		ID8A021135			1	☒	CCV	None
136	123	4	3	1	QC	CCB12	9 ppb	ID8A021136			1	☒	3XIDL	None
137	124	4	4	1	Unk	A195-11	375 ppb	ID8A021137			1	☒	unk	—
138	125	4	5	1	Unk	A195-11M		ID8A021138			1	☒	unk	—
139	126	4	6	1	Unk	A195-11S		ID8A021139			1	☒	unk	—
140	127	4	7	1	Blank	Blank		ID8A021140			1	☐		—
141	128	4	8	1	QC	CCV13		ID8A021141			1	☒	CCV	None
142	129	4	9	1	QC	CCB13	9.24 ppb	ID8A021142			1	☒	3XIDL	None
143	130	4	10	1	Unk	BLANK1		ID8A021143			1	☒	unk	—
144	131	4	11	1	Unk	BLANK2		ID8A021144			1	☒	unk	—
145	132	4	12	1	Unk	BLANK3		ID8A021145			1	☒	unk	—
146	133	4	1	2	Unk	BLANK4		ID8A021146			1	☒	unk	—

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ID8A021 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00195	.00002	-.00001	.00024	.00021	.00048	-.00004	.00037	.00004	-.00102	Blank
2	S20					.92478		.12347				S20
3	S21					8.8417		1.1198				S21
4	S22				.50529						.16585	S22
5	S23				4.7019						1.6956	S23
6	S24						.09969					S24
7	S25						1.0363					S25
8	S26	.30175							.79661	.13707		S26
9	S27	10.724							7.3662	1.3012		S27
10	S28		.00551									S28
11	S29		.05490									S29
12	S30			.00138								S30
13	S31			.00552								S31
14	ICV	103.44	1.4881	1.0320	2.0793	1.4973	2.4611	1.9795	76.645	2.4287	.94565	ICV
15	ICB	.01723	.00228	.00049	.00044*	.00028	.00288	.00012*	.03041	.00035	.00014	ICB
16	MRLA2503	.20541	.10140	.00932	.01083	.00967	.00878	.01018	1.0530	.01014	.00965	MRLA2503
17	MRLA2504	.20613	.05189	.00951	.00552	.00399	.09419	.00512	.52354	.01001	.00920	MRLA2504
18	ICSA1	380.79	.00753	.00099	.00122	-.00015	-.00568	-.00142	477.10	.00137	-.00069	ICSA1
19	ICSAB1	383.42	1.0455	1.0478	.55823	.48802	.49441	.92522	471.23	.46675	.47975	ICSAB1
20	CCV1	102.98	1.5551	1.0358	2.1106	1.4876	2.4761	1.9524	74.456	2.4275	.97735	CCV1
21	CCB1	.03584	.00130	.00013	.00036	.00030	.00291	.00012*	.04641	.00013	.00024*	CCB1
22	IPA042WB	.00713	.00059	-.00084	-.00020	-.00013	.00045	-.00006	.00821	-.00023	.00003	IPA042WB
23	IPA042WL	5.5860	2.6855	.54016	.54112	.51535	.51970	.51813	51.574	.50914	.50400	IPA042WL
24	IPA042WC	5.5838	2.6745	.53705	.53927	.51423	.51522	.51904	51.332	.50431	.49688	IPA042WC
25	A197-02A	7.5668	2.5678	.5B403	.57256	.54309	.53696	.54917	60.948	.53656	.52993	A197-02A
26	A197-02	1.4973	.00231	.00965	.00656	.00010	.02784	-.00001	10.825	.00066	.00071	A197-02
27	A197-02J	.29883	.00124	.00061	.00125	-.00014	.00474	-.00014	2.2102	-.00016	.00023	A197-02J
28	A197-02M	8.5058	2.6384	.55138	.54127	.51347	.53758	.51495	61.594	.50547	.49361	A197-02M
29	A197-02S	10.662	2.6365	.55607	.55079	.51660	.53782	.51797	61.321	.50588	.49545	A197-02S
30	A197-01	4.5314	.00230	.12749	.03728	.00005	.05334	-.00005	17.960	.00212	.00038	A197-01
31	Blank	-.00127	.00054	-.00035	-.00011	-.00015	-.00101	-.00012	.00685	-.00030	.00015	Blank
32	CCV2	104.24	1.5324	1.0262	2.1111	1.4863	2.4717	1.9466	73.283	2.4282	.97779	CCV2
33	CCB2	.02077	.00274	-.00133*	.00042*	.00029	.00209	.00022*	.02035	.00030	.00019	CCB2
34	IPA038SQ	.01102	.00161	-.00239	.00059	.00001	-.00039	-.00013	.06400	.00014	-.00005	IPA038SQ
35	IPA038SX	5.2154	2.5180	.51284	.53985	.50914	.46876	.50510	51.312	.51365	.52217	IPA038SX
36	IPA038SY	5.2975	2.5370	.51704	.56516	.51709	.47401	.50853	52.305	.52054	.53046	IPA038SY
37	A188-20A	43.229	2.4075	.55303	.77120	.53093	.47592	.51094	54.676	.59702	.55427	A188-20A
38	A18B-20W	36.546	.00461	.01824	.21815	.00191	.02036	-.00107	4.5870	.07381	.01155	A188-20W
39	A188-20J	7.5792	.00111	.00361	.04339	.00020	.00363	-.00034	.91173	.01446	.00220	A188-20J
40	Blank	-.01067	-.00026	-.00050	-.00022	-.00020	-.00089	-.00013	-.00576	-.00031	.00015	Blank
41	CCV3	104.45	1.5770	1.0429	2.1244	1.4990	2.4968	1.9592	74.701	2.4425	.97909	CCV3
42	CCB3	.00315	.00155	-.00097	.00028	.00013	.00196	-.00002	.00790	-.00002	.00008	CCB3
43	IPA039WQ	-.00117	.00023	.00077	.00000	-.00017	.00149	-.00010	.00195	-.00038	.00006	IPA039WQ
44	IPA039WX	5.5292	2.6504	.53027	.54064	.50088	.50245	.50424	50.503	.49585	.50120	IPA039WX
45	IPA039WY	5.5916	2.6735	.53133	.54407	.50461	.50902	.50638	49.742	.50292	.50706	IPA039WY
46	A137-04A	8.8067	2.6641	.59957	.68702	.52091	1.1818	.49862	328.19	.52188	.55471	A137-04A
47	A137-04W	2.4247	.00285	-.00149	.11071	.00007	.67220	-.00004	287.71	.00291	.00060	A137-04W
48	A137-04J	.48236	.00141	-.00050	.02201	-.00012	.13005	-.00008	60.676	.00061	-.00001	A137-04J
49	A137-04G	9.5494	2.7639	.56807	.66394	.49297	1.2016	.47215	332.09	.48579	.51723	A137-04G
50	A137-04H	10.115	2.8145	.57124	.67242	.49898	1.2191	.48132	336.25	.49261	.51980	A137-04H
51	A137-02W	.88460	.00187	-.00140	.09337	-.00005	.63344	-.00017	299.32	.00160	.00023	A137-02W
52	Blank	-.00557	.00165	.00035	.00001	-.00009	.00098	-.00006	.24027	-.00024	.00015	Blank
53	CCV4	105.97	1.5884	1.0404	2.1727	1.5124	2.5001	1.9115	74.631	2.4073	.98836	CCV4
54	CCB4	.01934	.00292	-.00017	.00085*	.00040	.00307	.00026*	.08603	.00020	.00017	CCB4

55	A137-03W	.60946	.00035	-.00333	.08468	-.00018	.18432	-.00019	372.18	.00346	.00433	A137-03W
56	A152-01W	2.4445	-.00049	-.00190	.11521	-.00003	.70818	-.00018	301.76	.00241	.00132	A152-01W
57	A152-02W	1.5898	-.00049	-.00295	.09081	-.00009	.56372	-.00017	321.83	.00229	.00202	A152-02W
58	A152-03W	.82217	-.00009	-.00278	.06818	-.00017	.18736	-.00019	371.26	.00226	.00458	A152-03W
59	A161-02W	.01112	.00051	.00149	.09828	-.00019	.05270	-.00008	63.868	.00792	-.00043	A161-02W
60	A161-03W	.00924	-.00017	.00036	.09253	-.00017	.05198	-.00009	62.941	.00546	-.00043	A161-03W
61	Blank	-.00262	.00058	.00019	.00043	-.00011	-.00054	.00001	.16720	-.00018	.00005	Blank
62	CCV5	106.88	1.5995	1.0382	2.1846	1.5199	2.5105	1.9112	75.134	2.4096	.98425	CCV5
63	CCB5	.01418	.00220	-.00021	.00044*	.00029	.00273	.00014*	.02315	.00023	.00023*	CCB5
64	A135-02	.11042	.00029	.07201	.47428	-.00020	.22887	-.00028	208.83	.00085	-.00056	A135-02
65	A135-03	.52332	-.00005	.08917	.33647	-.00020	.27507	-.00017	182.29	.00109	-.00057	A135-03
66	A135-04	.26638	-.00016	.08885	.33533	-.00019	.27237	-.00017	184.65	.00075	-.00056	A135-04
67	A135-05	.17117	.00064	.08398	.45039	-.00018	.27431	-.00019	185.25	.00083	-.00056	A135-05
68	A135-06	.05188	.00002	.02792	.59879	-.00024	.27336	-.00027	381.07	.00056	.00164	A135-06
69	A135-07	.98278	-.00057	.07192	.56913	-.00019	.30798	-.00014	172.86	.00169	.00000	A135-07
70	Blank	-.00555	.00044	-.00009	.00037	-.00013	-.00037	-.00006	.20157	-.00018	.00008	Blank
71	CCV6	107.93	1.6199	1.0419	2.2079*	1.5250	2.5111	1.8949	74.294	2.3865	.98909	CCV6
72	CCB6	.01950	.00162	-.00097	.00051*	.00034	.00237	.00015*	.02398	.00021	.00021*	CCB6
73	TXA010SB	.01371	-.00021	-.00249	.00142	-.00018	.00714	-.00015	.00317	-.00020	-.00006	TXA010SB
74	A112-01A	6.5871	2.7416	.60930	.67407	.53029	.80248	.51331	64.790	.51577	.54978	A112-01A
75	A112-01	.03258	.00480	-.00070	.08476	-.00009	.29259	.00119	17.822	.00059	.00198	A112-01
76	A112-01J	.00494	.00226	-.00102	.01687	-.00017	.05598	.00014	3.7281	-.00013	.00020	A112-01J
77	A112-01M	6.2704	2.8796	.58129	.65550	.51032	.87099	.48831	69.732	.49084	.52309	A112-01M
78	A112-01S	6.0891	2.8160	.56608	.63754	.49813	.86112	.47762	68.233	.48596	.51453	A112-01S
79	Blank	-.00909	.00228	-.00102	.00018	.00007	.00109	-.00009	.03212	-.00027	.00012	Blank
80	Blank	-.01157	.00097	.00045	-.00024	-.00020	-.00040	-.00011	-.00649	-.00035	-.00001	Blank
81	CCV7	106.58	1.6004	1.0430	2.1813	1.5196	2.4992	1.9135	75.457	2.4057	.98213	CCV7
82	CCB7	.02398	.00189	-.00028	.00071*	.00040	.00310	.00020*	.02359	.00042	.00020	CCB7
83	TXA011WB	.00815	-.00028	-.00022	.00048	-.00022	.00057	-.00018	.00881	-.00028	-.00009	TXA011WB
84	A140-01A	6.6215	2.8408	.63769	1.5984	.53165	1.4084	.52443	82.346	.52618	.54781	A140-01A
85	A140-01	.03042	.00297	.00692	1.0072	.00001	.88872	.00012	34.321	.00175	-.00095	A140-01
86	A140-01J	.00463	.00126	.00094	.20155	-.00014	.17177	-.00005	7.0799	.00011	-.00018	A140-01J
87	A140-01M	6.0462	2.8667	.63350	1.5277	.50579	1.4016	.50806	84.659	.50973	.50860	A140-01M
88	A140-01S	5.9916	2.8724	.63037	1.5891	.49685	1.4561	.49798	85.855	.49665	.50088	A140-01S
89	Blank	-.00944	.00199	.00001	.00071	.00010	.00195	-.00003	.09704	-.00020	-.00001	Blank
90	Blank	-.01063	.00060	-.00053	.00003	-.00015	.00024	-.00006	.05121	-.00027	.00012	Blank
91	CCV8	104.90	1.6119	1.0631	2.1762	1.5184	2.5084	1.9831	76.355	2.4552	.97527	CCV8
92	CCB8	.03048	.00202	-.00088	.00076*	.00048	.00354	.00030*	.02738	.00048	.00023*	CCB8
93	IPA035WB	-.01205	-.00010	-.00029	.00058	-.00019	.00142	-.00012	.01812	-.00041	.00005	IPA035WB
94	IPA035WL	5.4904	2.6796	.54210	.54343	.51717	.51968	.51667	51.748	.50618	.49345	IPA035WL
95	IPA035WC	5.5461	2.6781	.54260	.54478	.51997	.52103	.51910	51.962	.50940	.49541	IPA035WC
96	A755-01A	6.2562	2.6997	.61283	.63246	.55775	.85559	.55034	118.67	.54354	.53844	A755-01A
97	A755-01	.00890	.00414	.00033	.04373	.00004	.33567	.00005	69.546	.00054	-.00012	A755-01
98	A755-01D	.00876	.00227	.00053	.04543	-.00017	.34670	-.00006	72.643	.00030	-.00002	A755-01D
99	A755-01J	-.00869	.00164	.00146	.00874	-.00017	.06392	-.00007	14.457	.00003	.00010	A755-01J
100	A755-01M	5.8704	2.7799	.57459	.60225	.52671	.88392	.51950	123.11	.51499	.50354	A755-01M
101	A755-01S	5.8252	2.7896	.57386	.59742	.52182	.88618	.51622	122.82	.50839	.49918	A755-01S
102	Blank	-.01391	.00229	-.00004	.00020	.00021	.00089	-.00011	.08384	-.00014	-.00002	Blank
103	CCV9	104.61	1.5989	1.0601	2.1613	1.5315	2.5203	2.0043	77.914	2.4964	.96888	CCV9
104	CCB9	.06420	.00302	-.00061	.00439*	.00117	.00392	.00124*	.94681*	.00158*	.00080*	CCB9
105	A498-01	1.4866	.00025	-.00163	.10929	-.00006	3.7430	.00129	253.88	.00867	.00017	A498-01
106	A499-01	.17765	.00115	-.00226	.04629	-.00014	3.5427	.00001	257.66	.00410	.00018	A499-01
107	Blank	-.01973	-.00006	.00046	-.00006	-.00016	.00492	-.00011	.07614	-.00010	.00016	Blank
108	Blank	-.01347	-.00025	.00012	-.00007	-.00016	.00141	-.00010	.05816	-.00020	-.00002	Blank
109	ICSA2	388.62	.00526	-.00134	.00441	-.00024	-.00236	-.00146	490.79	.00147	-.00039	ICSA2
110	ICSAB2	386.97	1.0676	1.0581	.57018*	.49526	.50084	.92793	477.27	.46739	.47583	ICSAB2
111	CCV10	107.51	1.6231	1.0559	2.1908	1.5119	2.5002	1.9403	73.960	2.3897	.98312	CCV10

112	CCB10	.02407	.00142	-.00002	.00061*	.00018	.00236	.00001	.19280*	-.00002	.00018	CCB10
113	IPA043SB	.04565	.00225	-.00167	.00061	.00001	.00023	-.00021	.13885	-.00007	-.00013	IPA043SB
114	IPA043SL	5.4465	2.6318	.51741	.56389	.51966	.48131	.49314	52.149	.50895	.53331	IPA043SL
115	IPA043SC	5.4296	2.6297	.51896	.56264	.52039	.48280	.49555	51.788	.51119	.53101	IPA043SC
116	A193-06A	35.007	2.4921	.51294	.77902	.51196	.46254	.47373	54.738	.53658	.52374	A193-06A
117	A193-06R	28.228	.03822	.00466	.23289	.00081	.00588	.00247	5.0521	.04806	.00643	A193-06R
118	A193-06J	5.7163	.00743	.00156	.04569	-.00005	.00083	.00035	1.0041	.00925	.00127	A193-06J
119	A193-06U	76.761	2.5394	.51487	.80522	.50904	.47027	.48014	56.026	.55356	.52205	A193-06U
120	A193-06V	78.663	2.6295	.52673	.81936	.52072	.48598	.49233	57.761	.56938	.53164	A193-06V
121	A195-01	75.922	.01148	.07981	1.0385	.00673	.00780	.00211	24.502	.18905	.05423	A195-01
122	Blank	.02167	.00068	.00001	.00025	-.00020	-.00035	-.00013	-.00285	-.00022	.00006	Blank
123	CCV11	105.96	1.5961	1.0440	2.1756	1.5102	2.4916	1.9209	74.284	2.4041	.98133	CCV11
124	CCB11	.00689	.00206	-.00013	.00089*	.00017	.00215	.00005	.15964*	.00007	.00007	CCB11
125	A195-02	77.707	.01496	.12829	1.0046	.00797	.01913	.00065	26.017	.34957	.08701	A195-02
126	A195-03	71.691	.01218	.10474	.95498	.00800	.04573	.03020	29.605	.19455	.09287	A195-03
127	A195-04	95.368	.01922	.16976	1.0739	.00947	.01627	.00238	13.243	.56053	.13579	A195-04
128	A195-05	72.683	.01000	.10843	.91892	.00764	.01828	-.00006	6.1323	.48199	.06035	A195-05
129	A195-06	67.486	.00758	.07104	.96192	.00568	.00385	-.00017	6.3499	.16982	.06890	A195-06
130	A195-07	74.830	.00892	.07289	1.0949	.00628	.00582	.00032	8.3094	.19667	.06596	A195-07
131	A195-08	75.467	.01000	.07410	.86530	.00616	.01338	-.00059	7.7813	.20759	.03398	A195-08
132	A195-09	102.70	.01166	.10030	.86849	.00778	.01842	-.00290	5.9799	.39257	.06346	A195-09
133	A195-10	67.060	.00677	.06637	1.1063	.00637	.02384	.00035	8.5214	.12890	.07929	A195-10
134	Blank	.05628	-.00010	.00011	.00036	-.00021	-.00126	-.00015	.01009	-.00029	-.00008	Blank
135	CCV12	105.86	1.6003	1.0542	2.1682	1.5239	2.5145	1.9845	76.548	2.4732	.96843	CCV12
136	CCB12	.00907	.00232	-.00019	.00086*	.00026	.00181	.00013*	.16386*	.00013	.00030*	CCB12
137	A195-11	77.039	.00775	.07923	1.3724	.00777	.00846	-.00073	7.4059	.14497	.09453	A195-11
138	A195-11M	177.38	2.4274	.63378	2.3286	.52625	.45689	.48990	61.835	.75317	.70506	A195-11M
139	A195-11S	151.51	2.4555	.62932	1.9719	.53135	.46809	.49439	61.077	.76604	.60468	A195-11S
140	Blank	.06828	.00254	.00011	.00138	.00022	-.00005	.00008	.18095	.00007	.00013	Blank
141	CCV13	107.48	1.6323	1.0788	2.1770	1.5365	2.5347	2.0167	77.684	2.4985	.96632	CCV13
142	CCB13	.00684	.00131	-.00006	.00094*	.00025	.00202	.00013*	.16829*	.00013	.00034*	CCB13
143	BLANK1	-.01063	.00051	-.00091	-.00009	-.00012	.00003	-.00010	.00183	-.00024	-.00001	BLANK1
144	BLANK2	.06867	.00018	-.00056	-.00004	-.00018	-.00045	-.00012	.00958	-.00020	.00008	BLANK2
145	BLANK3	.00521	-.00176	.00140	-.00009	-.00015	-.00213	.00008	-.01055	-.00031	.00031	BLANK3
146	BLANK4	-.00501	-.00343	.00213	-.00017	-.00017	-.00254	.00005	-.02094	-.00036	.00019	BLANK4
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00178	.00005	-.00002	.00006	.00001	.00005	.00023	-.00060	.00013	.00001	Blank
2	S20			.20436			.11156					S20
3	S21			1.9964			1.0916					S21
4	S22	.39175	.05283									S22
5	S23	3.7095	1.9901									S23
6	S24							.81010				S24
7	S25							8.0838				S25
8	S26								.84767	.32359		S26
9	S27								8.0388	3.2673		S27
10	S28					.09732						S28
11	S29					.39982						S29
12	S30				.02961						.00158	S30
13	S31				.14535						.00626	S31
14	ICV	2.5615	25.168	2.4055	.53661	57.612	2.3271	2.4516	2.4017	58.259	1.0160	ICV
15	ICB	.00022	.00125	.00038	.00016	.01356	.00041	.00047*	.00024	.09945	-.00001	ICB
16	MRLA2503	.01039	.20931	.01002	.00998	.95263	.00962	.00986	.00974	.96261	.00992	MRLA2503
17	MRLA2504	.01048	.10393	.00286	.09906	.18604	.00475	.00968	.00980	.93931	.00966	MRLA2504
18	ICSA1	.00109	185.62	-.00240	.00574	190.80	.00052	-.00198	-.00106	.09339	.00103	ICSA1
19	ICSAB1	.55070	184.80	.93550	1.1646	192.22	.45474	1.0283	.95698	78.572	1.0371	ICSAB1
20	CCV1	2.5991	24.596	2.4457	.55038*	56.916	2.3551	2.5387	2.4321	58.955	1.0341	CCV1
21	CCB1	.00030	.01390	.00041	.00002	.03241	.00055*	.00050*	.00010	.11657*	-.00056	CCB1
22	IPA042WB	-.00015	.00263	-.00001	.00002	.00537	-.00023	-.00002	-.00010	.03221	-.00197	IPA042WB
23	IPA042WL	.54561	5.2784	.51462	.00023*	48.756	.49065	.52492	.46837	50.023	.53600	IPA042WL
24	IPA042WC	.54158	5.2215	.50775	.00057*	48.767	.48844	.51738	.46201	49.590	.53139	IPA042WC
25	A197-02A	.57607	6.2442	.53869	.00213	56.108	.55667	.50148	.53410	50.546	.56830	A197-02A
26	A197-02	.00140	.73285	.00042	.00159	8.2786	.03594	.00004	.00106	1.5402	-.00084	A197-02
27	A197-02J	.00000	.15036	-.00001	.00002	1.6944	.00714	-.00014	.00004	.30998	.00025	A197-02J
28	A197-02M	.54288	6.4424	.49936	.00329	57.557	.52482	.51658	.45857	50.594	.53255	A197-02M
29	A197-02S	.55147	7.2469	.49927	.00433	57.835	.52859	.51522	.46088	50.830	.53590	A197-02S
30	A197-01	.03097	1.8846	.00106	.00323	8.1044	.04600	.00054	.00176	1.7270	-.00178	A197-01
31	Blank	-.00028	-.00177	.00016	.00008	.00111	-.00025	-.00012	-.00022	.03924	-.00089	Blank
32	CCV2	2.6410	24.935	2.4326	.54943	56.830	2.3551	2.5471	2.4405	58.589	1.0230	CCV2
33	CCB2	.00044	.00312	.00074	.00007	.01635	.00053*	.00072*	.00012	.08066	-.00005	CCB2
34	IPA038SQ	.00005	.01112	.00030	.00004	.01015	.00014	.00027	-.00020	.06860	-.00030	IPA038SQ
35	IPA038SX	.54053	5.2800	.51153	.00005*	48.725	.49280	.55211	.48244	49.622	.50363	IPA038SX
36	IPA038SY	.54776	5.3370	.52001	.00003*	49.726	.49978	.56008	.48863	50.384	.50527	IPA038SY
37	A188-20A	.58993	55.147	.55457	.02047	53.307	.74743	.53075	.58038	51.604	.52357	A188-20A
38	A188-20W	.02613	52.274	.02857	.01937	6.0538	.24395	.00266	.03878	3.3034	.00115	A188-20W
39	A188-20J	.00507	10.714	.00562	.00363	1.2211	.04928	.00036	.00733	.64895	-.00099	A188-20J
40	Blank	-.00030	-.00225	.00025	.00015	.00192	-.00016	-.00017	-.00026	.00285	-.00029	Blank
41	CCV3	2.6350	24.692	2.4481	.55175*	57.212	2.3685	2.5674	2.4443	58.915	1.0421	CCV3
42	CCB3	.00017	-.00086	.00025	.00001	.00887	.00030	.00047*	-.00014	.06819	-.00109	CCB3
43	IPA039WQ	.00023	-.00049	.00028	-.00048	-.00143	-.00025	.00005	-.00025	.01923	-.00102	IPA039WQ
44	IPA039WX	.54238	5.1345	.50737	.00050*	48.041	.48223	.52586	.46462	49.976	.52146	IPA039WX
45	IPA039WY	.54770	5.2121	.51465	.00004*	47.235	.50437	.53220	.47048	49.394	.52580	IPA039WY
46	A137-04A	.61763	7.1657	.54442	.14054	92.196	.75373	.55255	.55671	62.900	.66026	A137-04A
47	A137-04W	.00532	1.8797	.00190	.14504	44.920	.24925	.01080	.00448	7.9168	.04686	A137-04W
48	A137-04J	.00141	.39714	.00029	.02628	9.0001	.05085	.00186	.00062	1.4830	.00822	A137-04J
49	A137-04G	.58434	6.9460	.51100	.14695	93.372	.72039	.56463	.47837	64.138	.62750	A137-04G
50	A137-04H	.59434	7.1627	.51277	.14882	94.645	.72687	.57170	.48185	65.288	.63327	A137-04H
51	A137-02W	.00419	.67006	.00125	.13900	44.852	.19389	.00944	.00389	8.0986	.06787	A137-02W
52	Blank	.00017	-.00452	.00000	.00046	.02529	-.00014	-.00001	-.00014	.17334	-.00133	Blank
53	CCV4	2.6714	24.213	2.4702	.56736*	57.120	2.3639	2.6085	2.4600	60.159	1.0408	CCV4
54	CCB4	.00080	.00197	.00057	.00066	.01844	.00069*	.00069*	.00020	.13492*	-.00120	CCB4

55	A137-03W	.00571	2.4752	.00181	.13948	29.805	.73415	.00493	.00505	7.5995	.00064	A137-03W
56	A152-01W	.00616	2.0540	.00246	.14834	45.440	.30931	.00891	.00497	7.7711	.05129	A152-01W
57	A152-02W	.00543	2.1461	.00184	.15254	42.812	.39147	.01021	.00437	6.8732	.03265	A152-02W
58	A152-03W	.00442	3.1554	.00145	.14229	27.371	.78915	.00142	.00500	6.6013	.00154	A152-03W
59	A161-02W	.00123	.00477	-.00018	.03367	12.041	.00027	.00316	-.00033	2.5192	.00027	A161-02W
60	A161-03W	.00124	.40135	.00084	.03330	11.975	.01566	.00301	.00081	2.4075	.00064	A161-03W
61	Blank	.00020	.00183	-.00017	.00022	.00969	.00011	-.00010	-.00005	.05309	.00006	Blank
62	CCV5	2.6807	24.181	2.4622	.57338*	57.432	2.3698	2.6083	2.4559	60.697	1.0405	CCV5
63	CCB5	.00073	-.00033	.00038	.00004	.01440	.00053*	.00063*	.00019	.10625	-.00049	CCB5
64	A135-02	.00155	6.8913	.00093	.00677	52.096	3.8834	.03755	.00006	5.5411	.00008	A135-02
65	A135-03	.00233	5.1773	.00074	.00508	45.179	3.3935	.03958	.00023	6.0487	.00042	A135-03
66	A135-04	.00181	5.0153	.00059	.00420	45.850	3.5291	.04004	.00039	6.0897	-.00029	A135-04
67	A135-05	.00213	6.4674	.00035	.00505	46.734	2.8817	.04597	.00102	6.3100	-.00108	A135-05
68	A135-06	.00248	9.0757	.00110	.03652	126.54	2.7053	.05562	.00329	10.346	-.00057	A135-06
69	A135-07	.00328	3.1815	.00139	.00576	41.003	3.1179	.04518	.00085	6.6445	-.00089	A135-07
70	Blank	.00030	-.00115	-.00046	.00014	.03344	.00207	-.00001	-.00028	.13992	-.00141	Blank
71	CCV6	2.7156	23.893	2.4722	.58021*	56.992	2.3535	2.6335	2.4653	60.659	1.0455	CCV6
72	CCB6	.00096	.00188	-.00014	-.00022	.01524	.00055*	.00068*	.00018	.13216*	-.00078	CCB6
73	TXA010SB	.00175	.00514	-.00035	-.00031	-.00826	.00001	.00029	-.00047	.27435	.00344	TXA010SB
74	A112-01A	.70324	5.2398	.54059	.00333	78.662	.59713	.54736	1.0384	63.698	.60664	A112-01A
75	A112-01	.07455	.02124	.00002	.00250	33.226	.09907	.01013	.51389	9.2324	.00254	A112-01
76	A112-01J	.01479	.00208	-.00013	.00054	6.7723	.02048	.00193	.10085	1.8097	-.00029	A112-01J
77	A112-01M	.68821	4.9686	.51246	.00356	86.781	.58721	.57021	1.0533	67.573	.57774	A112-01M
78	A112-01S	.67078	4.9104	.50468	.00344	84.875	.57894	.55919	1.0415	65.583	.56390	A112-01S
79	Blank	.00026	.00025	-.00012	.00016	.04076	.00004	.00010	-.00008	.35597	-.00040	Blank
80	Blank	.00004	-.00383	.00013	.00027	-.00054	-.00019	-.00005	-.00029	.13845	-.00063	Blank
81	CCV7	2.6702	24.124	2.4531	.57104*	57.493	2.3669	2.6017	2.4493	60.408	1.0451	CCV7
82	CCB7	.00099	.00293	.00051	.00036	.01898	.00075*	.00073*	.00008	.15520*	-.00022	CCB7
83	TXA011WB	.00073	.00475	-.00046	-.00036	-.00014	-.00010	-.00011	-.00032	.13372	-.00045	TXA011WB
84	A140-01A	.64264	5.4143	.54181	.49899	46.273	.59441	.54095	.55064	246.18	.61895	A140-01A
85	A140-01	.00202	.14919	.00091	.49330	.06414	.09064	.00012	.00052	194.98	.00139	A140-01
86	A140-01J	.00087	.02754	.00032	.09001	.01225	.01838	.00007	-.00007	37.673	-.00027	A140-01J
87	A140-01M	.58717	5.2869	.50338	.48249	47.655	.56888	.54183	.47088	244.60	.56597	A140-01M
88	A140-01S	.58517	5.1167	.49591	.52073	46.952	.56314	.54075	.46426	256.39	.56400	A140-01S
89	Blank	-.00005	-.00317	.00018	.00100	.02073	.00016	.00014	-.00004	1.0653	-.00080	Blank
90	Blank	-.00012	-.00631	.00058	.00022	.00255	-.00016	-.00009	-.00021	.42849	-.00006	Blank
91	CCV8	2.6301	24.610	2.4354	.56185*	58.100	2.3788	2.5773	2.4375	60.439	1.0523	CCV8
92	CCB8	.00073	.00520	.00057	.00025	.01746	.00099*	.00068*	.00029	.32187*	-.00040	CCB8
93	IPA035WB	-.00004	.01045	-.00003	.00033	-.01274	.00001	-.00004	-.00001	.19518	-.00105	IPA035WB
94	IPA035WL	.53276	5.1777	.50415	.00026*	48.798	.48447	.51549	.50075	50.092	.53610	IPA035WL
95	IPA035WC	.53546	5.2224	.50658	.00024*	49.005	.48814	.51783	.50404	50.314	.53305	IPA035WC
96	A755-01A	.59908	5.5897	.54434	.00791	75.540	.56261	.52208	.54189	63.482	.60167	A755-01A
97	A755-01	.00588	.00647	.00090	.00736	26.773	.03630	.00418	.00095	11.302	-.00038	A755-01
98	A755-01D	.00602	.00697	-.00016	.00740	28.015	.03479	.00415	.00079	11.688	-.00123	A755-01D
99	A755-01J	.00107	-.00371	-.00022	.00170	5.5094	.00728	.00069	.00001	2.2692	-.00029	A755-01J
100	A755-01M	.56284	5.2696	.50755	.00811	77.948	.52532	.53418	.50935	64.594	.56289	A755-01M
101	A755-01S	.55889	5.2720	.50433	.00825	77.718	.52095	.53414	.50965	64.892	.56257	A755-01S
102	Blank	-.00016	-.00418	-.00051	-.00018	.05498	.00014	-.00004	-.00022	.34645	-.00040	Blank
103	CCV9	2.6005	24.997	2.4287	.55700*	59.458	2.4093	2.5540	2.4240	60.347	1.0505	CCV9
104	CCB9	.00166*	.02186	.00162	.00072	.04351	.00222*	.00150*	.00173*	.25309*	.00054	CCB9
105	A498-01	.45523	1.4203	.00320	.19130	777.34	.25254	.00512	.13815	335.36	-.00100	A498-01
106	A499-01	.63122	1.0198	.00148	.16830	788.95	.08040	.00331	.13595	306.85	-.00029	A499-01
107	Blank	-.00055	-.00516	.00008	.00051	.11675	-.00020	-.00020	-.00012	1.8947	-.00044	Blank
108	Blank	-.00021	-.00215	.00056	.00051	.05685	-.00007	-.00011	-.00014	.76754	-.00174	Blank
109	ICSA2	.00090	188.92	-.00269	.00650	200.63	.00986	-.00207	-.00087	.76655	.00241	ICSA2
110	ICSAB2	.55511*	184.03	.92697	1.1793*	194.53	.45415	1.0333	.95082	79.873	1.0474	ICSAB2
111	CCV10	2.7073	24.073	2.4514	.57570*	56.513	2.3307	2.6144	2.4549	60.693	1.0568	CCV10

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	CCB10	.00060	.01003	.00064	.00055	.02155	.00040	.00056*	.00001	.38822*	-.00025	CCB10
113	IPA043SB	.00032	.04056	-.00077	.00007	.09280	.00016	.00026	-.00026	.33291	-.00016	IPA043SB
114	IPA043SL	.56387	5.1422	.51805	.00046*	49.221	.49011	.58081	.49241	51.982	.50596	IPA043SL
115	IPA043SC	.56151	5.1643	.51552	.00031*	48.944	.48985	.57892	.48982	51.773	.51062	IPA043SC
116	A193-06A	1.1356	31.853	4.9795	.01447	49.009	.86430	.54463	.49563	53.419	.49860	A193-06A
117	A193-06R	.58357	28.052	4.6648	.01296	2.2364	.40076	.00225	.02287	3.8857	.00116	A193-06R
118	A193-06J	.11534	5.7010	.93283	.00287	.44229	.07976	.00030	.00403	.83722	-.00102	A193-06J
119	A193-06U	1.1691	37.419	4.9825	.03427	50.412	.88677	.54578	.53086	54.619	.49748	A193-06U
120	A193-06V	1.1884	38.400	5.0459	.03451	52.042	.90163	.56055	.54082	55.681	.50919	A193-06V
121	A195-01	.06673	190.94	.28910	.03383	4.6018	2.2587	.00830	.07194	4.4780	.00799	A195-01
122	Blank	.00001	.07426	.00085	.00023	.00244	.00076	-.00014	-.00033	.05051	-.00137	Blank
123	CCV11	2.6717	24.177	2.4498	.56970*	56.741	2.3310	2.6036	2.4471	60.132	1.0388	CCV11
124	CCB11	.00066	.00042	-.00007	.00029	.00672	.00043	.00055*	-.00004	.12635*	-.00086	CCB11
125	A195-02	.05835	330.00	.25204	.03266	3.9317	2.6004	.01206	.07273	3.9160	.00730	A195-02
126	A195-03	.11993	263.45	1.0304	.03291	5.2821	3.0436	.00971	.12353	5.5621	.00537	A195-03
127	A195-04	.07814	450.19*	.25760	.03836	4.8278	3.4554	.01520	.11275	5.0490	.01110	A195-04
128	A195-05	.07305	267.72	.24677	.02866	3.9711	2.4331	.01135	.06655	3.3905	.00775	A195-05
129	A195-06	.04984	150.70	.24535	.03126	4.2308	2.8002	.00773	.05306	3.4895	.00356	A195-06
130	A195-07	.04948	163.38	.25556	.03457	4.7879	2.7564	.00828	.06090	3.7084	.00579	A195-07
131	A195-08	.06524	203.54	.19509	.03233	4.5829	2.0009	.00789	.07667	5.8330	.00537	A195-08
132	A195-09	.05905	313.33	.15630	.04339	5.0433	2.4534	.01147	.11202	5.9780	.00817	A195-09
133	A195-10	.05803	155.22	.21217	.03072	4.5133	3.1953	.00712	.06359	4.3081	.00535	A195-10
134	Blank	-.00007	.07111	.00046	.00018	-.00180	.00085	-.00022	-.00016	-.01165	-.00161	Blank
135	CCV12	2.6301	24.816	2.4270	.56166*	58.458	2.3731	2.5627	2.4237	60.216	1.0472	CCV12
136	CCB12	.00051	.00301	.00024	.00048	.01137	.00049	.00061*	.00019	.05278	-.00067	CCB12
137	A195-11	.05806	187.44	.18255	.03547	4.6616	3.7910	.00826	.06999	4.9641	.00651	A195-11
138	A195-11M	.69812	344.08	.69996	.10984	59.935	5.7738	.55083	.60900	62.616	.50635	A195-11M
139	A195-11S	.62812	256.37	.66000	.09186	58.934	3.7106	.55440	.58056	61.877	.51109	A195-11S
140	Blank	.00025	.13456	.00049	-.00020	.03656	.00227	.00003	.00009	.09342	-.00091	Blank
141	CCV13	2.6379	25.018	2.4296	.56213*	59.250	2.3889	2.5652	2.4199	60.295	1.0659	CCV13
142	CCB13	.00040	.00650	.00034	.00041	.01350	.00063*	.00046*	.00022	.08221	-.00061	CCB13
143	BLANK1	.00003	-.00210	-.00035	.00007	-.00731	-.00009	-.00008	-.00021	.01625	-.00105	BLANK1
144	BLANK2	-.00003	-.00317	.00024	-.00021	-.00461	-.00006	-.00014	-.00013	.00380	-.00129	BLANK2
145	BLANK3	.00062	.00092	.00054	-.00032	.00250	.00005	-.00019	.00033	.02632	-.00217	BLANK3
146	BLANK4	.00050	-.00603	.00052	-.00042	-.00784	-.00036	-.00026	.00021	.03455	-.00182	BLANK4

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00008	.00125	-.00006	-.00002	.00012	.00000	-.00009	.00057	Blank
2	S20									S20
3	S21									S21
4	S22							.15139		S22
5	S23							1.4630		S23
6	S24		1.0755							S24
7	S25		6.2337							S25
8	S26									S26
9	S27									S27
10	S28				.00622					S28
11	S29				.05829					S29
12	S30	.04500		.13894		.02452	.01425		.55325	S30
13	S31	.22312		.68590		.11957	.07060		5.3537	S31
14	ICV	.50773	63.947	.49050	2.3216	.49379	.49623	1.4752	2.6503	ICV
15	ICB	.00016	.04105	.00021	.00009	.00013	.00005	.00029	.00100	ICB
16	MRLA2503	.01017	1.0442	.01021	.01124	.00004	.00985	.01006	.02325	MRLA2503
17	MRLA2504	.01017	.50405	.01035	.01096	.00985	.01005	.01016	.01014	MRLA2504
18	ICSA1	.00021	.06433	.02069	.00029	.00315	.00884	.00154	.00306	ICSA1
19	ICSAB1	1.1092	84.628	.51721	.81782	1.0020	.97342	.48411	1.0666	ICSA81
20	CCV1	.51660	64.404	.49511	2.3457	.52101	.48861	1.4825	2.6767	CCV1
21	CCB1	.00012	.05762	.00020	.00010	.00026	.00002	.00025	.00007	CC81
22	IPA042WB	.00004	.01360	.00004	-.00076	.00005	.00027	.00002	-.00045	IPA042WB
23	IPA042WL	.52649	55.112	.50459	.51186	.52099	.51322	.51751	.55527	IPA042WL
24	IPA042WC	.52548	54.712	.50207	.51270	.51581	.51230	.51307	.54784	IPA042WC
25	A197-02A	.50006	93.646	.55736	.53514	.49431	.53950	.54702	.59107	A197-02A
26	A197-02	.00016	40.582	.08355	-.00040	.00031	.04542	.00210	.00601	A197-02
27	A197-02J	.00013	8.0232	.01663	-.00065	.00010	.00875	.00037	.00135	A197-02J
28	A197-02M	.52406	95.557	.57519	.50017	.50727	.58812	.51939	.551B4	A197-02M
29	A197-02S	.526B6	95.549	.57393	.50355	.50251	.64506	.52415	.552B0	A197-02S
30	A197-01	.00016	41.337	.11160	-.00068	.00038	.13163	.00609	.01208	A197-01
31	Blank	.00011	.04775	.00007	-.00003	.00004	-.00009	-.00006	.00049	Blank
32	CCV2	.51769	63.966	.49214	2.3304	.51622	.49703	1.5018	2.6816	CCV2
33	CCB2	.00017	.05311	.00017	.00034	-.00009	.00039	.00032	.00036	CCB2
34	IPA03BSQ	.00002	.03879	.00013	-.00116	.03264	.00028	.00016	.00365	IPA038SQ
35	IPA038SX	.50509	54.473	.49857	.47630	.55386	.51910	.52625	.57423	IPA038SX
36	IPA038SY	.51027	55.256	.50300	.47917	.56031	.52337	.53326	.58433	IPA038SY
37	A188-20A	.47739	54.387	.53410	.47999	.53160	1.4642	.64221	.65125	A188-20A
38	A188-20W	-.00026	1.6455	.06227	-.00134	.03684	1.0037	.10879	.05839	A188-20W
39	A188-20J	-.00013	.31884	.01241	-.00057	.00718	.20039	.02167	.01056	A188-20J
40	Blank	.00005	-.00268	-.00001	-.00069	-.00003	-.00034	-.00004	.00034	Blank
41	CCV3	.52024	64.488	.49684	2.3631	.52490	.48990	1.4936	2.6879	CCV3
42	CCB3	.00001	.03244	.00007	-.00025	.00000	-.00003	.00017	-.00001	CCB3
43	IPA039WQ	-.00001	.01029	.00004	-.00039	-.00018	-.00006	.00000	.00248	IPA039WQ
44	IPA039WX	.51764	54.760	.50272	.49863	.51831	.51041	.50995	.54089	IPA039WX
45	IPA039WY	.52354	54.061	.50782	.50219	.52455	.51698	.51642	.55145	IPA039WY
46	A137-04A	.54782	419.06	3.3768	.46180	.51626	.54759	.55016	.60700	A137-04A
47	A137-04W	-.00020	380.51	3.0111	-.00113	.00054	.05202	.00386	.01262	A137-04W
48	A137-04J	-.00003	75.905	.59661	-.00088	.00033	.01483	.00083	.00505	A137-04J
49	A137-04G	.57464	429.47	3.4863	.43661	.52990	.55056	.51384	.56770	A137-04G
50	A137-04H	.58201	432.83	3.5017	.44358	.53869	.56068	.52052	.57806	A137-04H
51	A137-02W	-.00010	406.19	2.7931	-.00103	.00237	.02613	.00163	.00843	A137-02W
52	Blank	.00004	.49844	.00190	-.00046	.00025	-.00010	-.00003	.00231	Blank
53	CCV4	.51878	65.904	.50476	2.3331	.53265	.48917	1.4805	2.6622	CCV4
54	CCB4	.00007	.14970*	.00028	.00020	.00003	.00019	.00021	.00340	CCB4

55	A137-03W	-.00021	322.41	3.4494	-.00138	.00403	.01862	.00089	.01888	A137-03W
56	A152-01W	-.00029	405.93	3.1768	-.00108	.00044	.04481	.00388	.01454	A152-01W
57	A152-02W	-.00038	341.02	3.4883	-.00129	.00168	.03350	.00213	.01479	A152-02W
58	A152-03W	-.00033	318.38	3.6166	-.00128	.00105	.02382	.00136	.02834	A152-03W
59	A161-02W	-.00012	45.876	.85067	-.00091	-.00014	.00431	.00584	.04470	A161-02W
60	A161-03W	-.00020	45.055	.83714	-.00100	.00031	.00440	.00428	.01985	A161-03W
61	Blank	-.00007	.17825	.00083	-.00067	-.00014	-.00015	-.00006	.00538	Blank
62	CCV5	.52130	66.475*	.50628	2.3419	.53463	.48864	1.4805	2.6565	CCV5
63	CCB5	.00017	.12794*	.00023	.00009	.00010	-.00009	.00021	.00053	CCB5
64	A135-02	-.00003	172.96	1.9143	-.00239	.00027	.01371	.00020	.00739	A135-02
65	A135-03	-.00007	179.65	1.7637	-.00262	.00006	.03887	.00096	.00753	A135-03
66	A135-04	-.00014	180.64	1.7991	-.00227	.00021	.02310	.00035	.00776	A135-04
67	A135-05	.00000	169.46	1.7080	-.00143	.00055	.01251	.00044	.01308	A135-05
68	A135-06	-.00031	422.87	3.5944	-.00307	.00070	.01047	.00045	.00948	A135-06
69	A135-07	-.00008	169.72	1.6668	-.00156	.00018	.06016	.00212	.00574	A135-07
70	Blank	.00007	.36881	.00136	-.00004	-.00035	.00000	.00004	.00254	Blank
71	CCV6	.52042	66.694*	.50781	2.3393	.54005	.48867	1.4750	2.6349	CCV6
72	CCB6	.00010	.15629*	.00022	.00020	-.00015	.00012	.00019	.00056	CCB6
73	TXA010SB	-.00010	325.35*	.00135	-.00291	.00195	.00001	-.00010	.00184	TXA010SB
74	A112-01A	.54802	534.15	.57880	.48114	.51814	.48916	.54370	1.5793	A112-01A
75	A112-01	-.00006	491.14	.09274	-.00179	.00076	.00190	.00556	1.0589	A112-01
76	A112-01J	-.00006	102.16	.01857	-.00033	.00118	.00020	.00105	.20192	A112-01J
77	A112-01M	.58483	616.70	.62063	.45171	.51967	.50533	.51835	1.4163	A112-01M
78	A112-01S	.57354	603.94	.60899	.44077	.51621	.49888	.50908	1.3959	A112-01S
79	Blank	.00015	.89735	.00033	-.00036	-.00017	.00034	.00003	.00024	Blank
80	Blank	.00009	.27830	.00001	-.00034	-.00007	-.00016	-.00012	-.00004	Blank
81	CCV7	.51904	66.165*	.50410	2.3437	.53283	.48715	1.4776	2.6473	CCV7
82	CCB7	.00007	.23771*	.00022	-.00024	.00019	.00004	.00042	.00057	CCB7
83	TXA011WB	-.00003	.20120	.00004	-.00051	.00032	.00004	-.00001	.00254	TXA011WB
84	A140-01A	.58783	882.65*	1.5880	.47513	.51982	.49711	.54492	.63577	A140-01A
85	A140-01	.00006	816.09*	1.1093	.00001	.00015	.00316	.00022	.02054	A140-01
86	A140-01J	.00005	179.77	.22257	-.00012	.00051	.00081	.00007	.00468	A140-01J
87	A140-01M	.60409	868.30*	1.5856	.45299	.52644	.50619	.51921	.60358	A140-01M
88	A140-01S	.60004	892.58*	1.6580	.44318	.52269	.50583	.50773	.58539	A140-01S
89	Blank	.00016	1.2496	.00077	.00024	-.00033	.00031	.00011	.00324	Blank
90	Blank	-.00008	.42940	.00009	.00002	.00002	-.00016	.00001	.00269	Blank
91	CCV8	.51927	65.729	.50121	2.3889	.53381	.48726	1.4938	2.7021	CCV8
92	CCB8	.00020	.34273*	.00023	.00042	.00003	.00008	.00035	.00061	CCB8
93	IPA035WB	-.00011	.24074	.00000	-.00067	-.00018	.00007	-.00003	.00230	IPA035WB
94	IPA035WL	.52331	54.826	.48696	.50981	.51740	.50018	.51242	.54927	IPA035WL
95	IPA035WC	.52580	54.939	.48969	.51148	.51925	.50380	.51542	.55266	IPA035WC
96	A755-01A	.53306	239.91	.85626	.51978	.51423	.49478	.55753	.64956	A755-01A
97	A755-01	.00014	187.19	.38334	.00037	.00015	.00455	.00192	.04545	A755-01
98	A755-01D	.00000	194.59	.39499	-.00117	.00040	.00478	.00190	.04006	A755-01D
99	A755-01J	.00011	38.295	.07769	.00002	.00018	.00096	.00041	.00942	A755-01J
100	A755-01M	.55851	247.81	.88305	.48959	.52625	.50785	.52746	.60834	A755-01M
101	A755-01S	.55598	246.99	.88269	.48553	.52718	.50951	.52157	.60340	A755-01S
102	Blank	.00021	.48141	.00062	-.00039	.00005	.00026	.00011	-.00055	Blank
103	CCV9	.52229	65.492	.49778	2.4023	.53096	.48859	1.5067	2.7306	CCV9
104	CCB9	.00036	.27482*	.00070*	.00118*	.00044	.00063	.00108*	.04531*	CCB9
105	A498-01	.00043	*****	4.9965	-.00211	.00199	.01099	.00167	.70267	A498-01
106	A499-01	.00052	*****	4.5343	-.00099	.00308	.01211	.00160	.19310	A499-01
107	Blank	-.00009	5.2988	.00060	-.00031	-.00018	-.00009	-.00021	.00202	Blank
108	Blank	-.00002	2.2854	.00029	-.00074	.00008	-.00020	-.00007	.00227	Blank
109	ICSA2	.00035	2.5794	.02024	-.00050	.00336	.00852	.00135	.00198	ICSA2
110	ICSAB2	1.1122*	86.315*	.51866	.82584*	1.0119	.96368	.48376	1.0619	ICSAB2
111	CCV10	.52077	66.781*	.50370	2.3732	.53375	.48892	1.4817	2.6512	CCV10

112	CCB10	.00014	.80697*	.00023	.00008	.00015	.00011	.00025	.00859*	CCB10
113	IPA043SB	-.00015	1.1280*	.00051	-.00149	.03497	.00009	.00016	.00420	IPA043SB
114	IPA043SL	.51466	57.493	.51689	.47408	.57944	.52017	.52536	.57025	IPA043SL
115	IPA043SC	.51331	57.236	.51511	.47483	.57916	.51883	.52714	.57261	IPA043SC
116	A193-06A	.48474	55.266	.55479	.45018	.54383	1.5848	.58333	.70944	A193-06A
117	A193-06R	.00006	1.0400	.07379	-.00185	.03924	1.1137	.08073	.16535	A193-06R
118	A193-06J	-.00004	.44430	.01449	-.00050	.00752	.21908	.01584	.03112	A193-06J
119	A193-06U	.50302	56.581	.58681	.45235	.55333	1.8674	.59143	.72699	A193-06U
120	A193-06V	.51284	57.446	.59974	.46241	.56873	1.9005	.60483	.74831	A193-06V
121	A195-01	.00012	.49359	.06754	-.00234	.04115	1.0015	.29742	.59316	A195-01
122	Blank	.00002	.18335	-.00001	-.00099	.00002	.00064	.00010	-.00029	Blank
123	CCV11	.51971	65.940	.50128	2.3461	.53238	.48685	1.4809	2.6598	CCV11
124	CCB11	.00008	.22793*	.00012	-.00019	.00032	-.00012	.00013	.00891*	CCB11
125	A195-02	.00016	.37545	.06375	-.00262	.04221	1.0839	.48839	.37208	A195-02
126	A195-03	.00015	.50948	.07029	-.00247	.04175	.89279	.32019	4.1145	A195-03
127	A195-04	.00030	.65454	.06255	-.00305	.04561	1.1512	.55498	.52306	A195-04
128	A195-05	.00017	.34376	.05440	-.00205	.04222	.98313	.43054	.37838	A195-05
129	A195-06	-.00024	.29313	.05591	-.00223	.04024	.91710	.28810	.37819	A195-06
130	A195-07	-.00016	.33216	.07189	-.00146	.04037	.99784	.31877	.43823	A195-07
131	A195-08	-.00010	.20198	.05909	-.00189	.04110	.99764	.29118	.48730	A195-08
132	A195-09	.00007	.21672	.05764	-.00068	.04363	1.2338	.45082	.26400	A195-09
133	A195-10	-.00012	.24490	.06492	-.00281	.03955	.78946	.23939	.42836	A195-10
134	Blank	.00005	.03343	-.00005	-.00066	-.00009	.00039	.00007	.00103	Blank
135	CCV12	.52332	65.542	.49880	2.3991	.53183	.49046	1.5047	2.7079	CCV12
136	CCB12	.00015	.08227*	.00017	-.00027	.00013	.00036	.00018	.00900*	CCB12
137	A195-11	-.00003	.26849	.06642	-.00169	.05094	.89052	.27485	.37501	A195-11
138	A195-11M	.52208	56.600	.61867	.44651	.55874	1.7618	.94917	1.1261	A195-11M
139	A195-11S	.52627	56.996	.60063	.45577	.56478	1.6154	.90755	1.0123	A195-11S
140	Blank	.00035	.08137	.00039	-.00001	.00009	.00129	.00036	.00911	Blank
141	CCV13	.52579	65.758	.49846	2.4391	.53448	.48826	1.5118	2.7139	CCV13
142	CCB13	.00005	.06990*	.00017	-.00007	-.00023	.00035	.00018	.00924*	CCB13
143	BLANK1	.00005	.03286	-.00001	-.00012	-.00019	-.00035	-.00011	.00184	BLANK1
144	BLANK2	.00002	.02503	.00002	.00004	-.00031	-.00029	-.00010	.00119	BLANK2
145	BLANK3	.00014	.07613	-.00002	.00096	-.00063	-.00009	-.00004	-.00031	BLANK3
146	BLANK4	.00015	.08583	-.00006	.00049	-.00053	-.00003	-.00015	-.00064	BLANK4
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8A021 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/28/11 16:48

End Date: 1/28/11 23:37

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

IEC update for B, Cd, Pb
(ICSA1 >LOD)
CCB4 K>LOD
CCB6 Ca, K, Zn >LOD
A169-03 Fe >LDR
A187-01 IS ↓
ICSA1 K>LOD

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8A028

Analytical Sequence: S-11A6010(V34)

Method File: 11A6010(V34)

Database: Emax13

	STANDARDS ID			STANDARDS ID
S0	SM1B14-33-09		S30	SM1B14-02-03
S1	NA		S31	0204
S2			ICV	2701
S3			CCV	2001
S4			ICSA	2002
S5			ICSAB	1803
S6			MLCV	NA
S7			LLCV	
S8			CRI/MRL	
S9			MRL3,5	SM1B14-12-01
S10			MRL4,6	1901
S11				
S12				
S16				
S17				
S18				
S20	SM1B14-31-02			
S21		01-01		
S22		01-02		
S23		01-03		
S24		-01-04		
S25		01-05		
S26		2801		
S27		2802		
S28		02 01		
S29		02-02		

Analyzed By: TH

Date: 1/31/11

7048

SEQUENCE FILE : ID8A028

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A028001	Blank	16:48	01/28/11	1.000
ID8A028002	S20	16:51	01/28/11	1.000
ID8A028003	S21	16:54	01/28/11	1.000
ID8A028004	S22	16:57	01/28/11	1.000
ID8A028005	S23	16:59	01/28/11	1.000
ID8A028006	S24	17:02	01/28/11	1.000
ID8A028007	S25	17:05	01/28/11	1.000
ID8A028008	S26	17:08	01/28/11	1.000
ID8A028009	S27	17:11	01/28/11	1.000
ID8A028010	S28	17:14	01/28/11	1.000
ID8A028011	S29	17:17	01/28/11	1.000
ID8A028012	S30	17:20	01/28/11	1.000
ID8A028013	S31	17:23	01/28/11	1.000
ID8A028014	ICV	17:25	01/28/11	1.000
ID8A028015	ICB	17:28	01/28/11	1.000
ID8A028016	MRLA2803	17:31	01/28/11	1.000
ID8A028017	MRLA2804	17:34	01/28/11	1.000
ID8A028018	ICSA1	17:36	01/28/11	1.000
ID8A028019	ICSAB1	17:39	01/28/11	1.000
ID8A028020	CCV1	17:42	01/28/11	1.000
ID8A028021	CCB1	17:45	01/28/11	1.000
ID8A028022	10I108	17:48	01/28/11	1.000
ID8A028023	10H054	17:50	01/28/11	1.000
ID8A028024	10H055	17:53	01/28/11	1.000
ID8A028025	10L107	17:56	01/28/11	1.000
ID8A028026	CCV2	17:59	01/28/11	1.000
ID8A028027	CCB2	18:01	01/28/11	1.000
ID8A028028	IPA045SB	18:04	01/28/11	1.000
ID8A028029	IPA045SL	18:07	01/28/11	1.000
ID8A028030	IPA045SC	18:09	01/28/11	1.000
ID8A028031	MDLV-01	18:12	01/28/11	1.000
ID8A028032	MDLV-02	18:15	01/28/11	1.000
ID8A028033	MDLV-03	18:18	01/28/11	1.000
ID8A028034	MRLA2805	18:21	01/28/11	1.000
ID8A028035	MRLA2806	18:23	01/28/11	1.000
ID8A028036	CCV3	18:26	01/28/11	1.000
ID8A028037	CCB3	18:29	01/28/11	1.000
ID8A028038	IPA039WQ	18:32	01/28/11	1.000
ID8A028039	IPA039WX	18:35	01/28/11	1.000
ID8A028040	IPA039WY	18:37	01/28/11	1.000
ID8A028041	A135-02A	18:40	01/28/11	1.000
ID8A028042	A135-02W	18:43	01/28/11	1.000
ID8A028043	A135-02J	18:46	01/28/11	5.000
ID8A028044	A135-03W	18:48	01/28/11	1.000
ID8A028045	A135-04W	18:51	01/28/11	1.000
ID8A028046	A135-05W	18:54	01/28/11	1.000
ID8A028047	Blank	18:57	01/28/11	1.000
ID8A028048	CCV4	19:00	01/28/11	1.000
ID8A028049	CCB4	19:03	01/28/11	1.000
ID8A028050	IPA044SB	19:06	01/28/11	1.000
ID8A028051	IPA044SL	19:09	01/28/11	1.000
ID8A028052	IPA044SC	19:11	01/28/11	1.000
ID8A028053	A169-03A	19:14	01/28/11	1.000
ID8A028054	A169-03	19:17	01/28/11	1.000

ID8A028055	A169-03J	19:20	01/28/11	5.000
ID8A028056	A169-03M	19:22	01/28/11	1.000
ID8A028057	A169-03S	19:25	01/28/11	1.000
ID8A028058	Blank	19:28	01/28/11	1.000
ID8A028059	CCV5	19:31	01/28/11	1.000
ID8A028060	CCB5	19:33	01/28/11	1.000
ID8A028061	A169-03A	19:36	01/28/11	5.000
ID8A028062	A169-03T	19:39	01/28/11	5.000
ID8A028063	A169-03J	19:41	01/28/11	25.00
ID8A028064	A169-03G	19:44	01/28/11	5.000
ID8A028065	A169-03H	19:47	01/28/11	5.000
ID8A028066	A169-01	19:49	01/28/11	1.000
ID8A028067	A169-02	19:52	01/28/11	1.000
ID8A028068	A135-06W	19:55	01/28/11	1.000
ID8A028069	A135-07W	19:58	01/28/11	1.000
ID8A028070	Blank	20:01	01/28/11	1.000
ID8A028071	CCV6	20:04	01/28/11	1.000
ID8A028072	CCB6	20:06	01/28/11	1.000
ID8A028073	IPA048SB	20:09	01/28/11	1.000
ID8A028074	IPA048SL	20:12	01/28/11	1.000
ID8A028075	IPA048SC	20:15	01/28/11	1.000
ID8A028076	A219-11A	20:17	01/28/11	1.000
ID8A028077	A219-11	20:20	01/28/11	1.000
ID8A028078	A219-11J	20:23	01/28/11	5.000
ID8A028079	A219-11M	20:25	01/28/11	1.000
ID8A028080	A219-11S	20:28	01/28/11	1.000
ID8A028081	A219-01	20:31	01/28/11	1.000
ID8A028082	Blank	20:33	01/28/11	1.000
ID8A028083	CCV7	20:36	01/28/11	1.000
ID8A028084	CCB7	20:39	01/28/11	1.000
ID8A028085	A219-02	20:42	01/28/11	1.000
ID8A028086	A219-03	20:45	01/28/11	1.000
ID8A028087	A219-04	20:47	01/28/11	1.000
ID8A028088	A219-05	20:50	01/28/11	1.000
ID8A028089	A219-06	20:53	01/28/11	1.000
ID8A028090	A219-07	20:56	01/28/11	1.000
ID8A028091	A219-08	20:59	01/28/11	1.000
ID8A028092	A219-09	21:01	01/28/11	1.000
ID8A028093	A219-10	21:04	01/28/11	1.000
ID8A028094	Blank	21:07	01/28/11	1.000
ID8A028095	CCV8	21:10	01/28/11	1.000
ID8A028096	CCB8	21:12	01/28/11	1.000
ID8A028097	A187-01	21:15	01/28/11	1.000
ID8A028098	A209-03	21:18	01/28/11	1.000
ID8A028099	A209-04	21:21	01/28/11	1.000
ID8A028100	A209-07	21:24	01/28/11	1.000
ID8A028101	A209-09	21:27	01/28/11	1.000
ID8A028102	Blank	21:30	01/28/11	1.000
ID8A028103	CCV9	21:32	01/28/11	1.000
ID8A028104	CCB9	21:35	01/28/11	1.000
ID8A028105	IPA047SB	21:38	01/28/11	1.000
ID8A028106	IPA047SL	21:41	01/28/11	1.000
ID8A028107	IPA047SC	21:43	01/28/11	1.000
ID8A028108	A200-03A	21:46	01/28/11	10.00
ID8A028109	A200-03T	21:48	01/28/11	10.00
ID8A028110	A200-03J	21:51	01/28/11	50.00
ID8A028111	A200-01T	21:54	01/28/11	10.00

ID8A028112	A200-02T	21:56	01/28/11	10.00
ID8A028113	A133-01T	21:59	01/28/11	10.00
ID8A028114	A133-02T	22:02	01/28/11	10.00
ID8A028115	CCV10	22:04	01/28/11	1.000
ID8A028116	CCB10	22:07	01/28/11	1.000
ID8A028117	IPA053SB	22:10	01/28/11	1.000
ID8A028118	IPA053SL	22:13	01/28/11	1.000
ID8A028119	IPA053SC	22:15	01/28/11	1.000
ID8A028120	A251-06A	22:18	01/28/11	1.000
ID8A028121	A251-06	22:20	01/28/11	1.000
ID8A028122	A251-06J	22:23	01/28/11	5.000
ID8A028123	A251-06M	22:26	01/28/11	1.000
ID8A028124	A251-06S	22:28	01/28/11	1.000
ID8A028125	Blank	22:31	01/28/11	1.000
ID8A028126	CCV11	22:34	01/28/11	1.000
ID8A028127	CCB11	22:36	01/28/11	1.000
ID8A028128	A251-01	22:39	01/28/11	1.000
ID8A028129	A251-02	22:42	01/28/11	1.000
ID8A028130	A251-03	22:45	01/28/11	1.000
ID8A028131	A251-04	22:47	01/28/11	1.000
ID8A028132	A251-05	22:50	01/28/11	1.000
ID8A028133	A251-07	22:53	01/28/11	1.000
ID8A028134	A195-04T	22:56	01/28/11	5.000
ID8A028135	Blank	22:59	01/28/11	1.000
ID8A028136	CCV12	23:01	01/28/11	1.000
ID8A028137	CCB12	23:04	01/28/11	1.000
ID8A028138	IPA052WB	23:07	01/28/11	1.000
ID8A028139	IPA052WL	23:10	01/28/11	1.000
ID8A028140	IPA052WC	23:12	01/28/11	1.000
ID8A028141	A220-03A	23:15	01/28/11	1.000
ID8A028142	A220-03	23:17	01/28/11	1.000
ID8A028143	A220-03J	23:20	01/28/11	5.000
ID8A028144	A220-03M	23:23	01/28/11	1.000
ID8A028145	A220-03S	23:26	01/28/11	1.000
ID8A028146	A220-02	23:28	01/28/11	1.000
ID8A028147	Blank	23:31	01/28/11	1.000
ID8A028148	CCV13	23:34	01/28/11	1.000
ID8A028149	CCB13	23:37	01/28/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A028 DATE : 01/28/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	99	105	99	101	99	100	104	100	92	99	100	96	107	96	94	98	98	99	103	102	105	99	95	99	100	97	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	96	----	----	----	91	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	100	105	107	108	99	99	94	96	96	94	106	93	94	115	96	92	103	99	106	107	110	111	104	85	102	99	96	107
CCV1	103	103	103	99	99	97	97	100	98	94	98	97	97	106	94	94	101	99	98	103	100	104	98	93	105	98	95	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10I108	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H054	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H055	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10L107	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	102	105	100	100	98	99	101	100	94	99	99	96	107	96	95	100	98	98	104	102	104	98	96	103	99	97	107
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	103	102	102	99	99	97	97	101	98	94	97	97	96	106	94	94	100	98	98	102	100	103	97	93	104	98	94	107
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	103	102	102	99	98	97	95	99	96	94	98	96	97	107	92	93	101	98	98	102	100	103	97	92	105	97	94	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	103	101	101	98	98	96	95	99	97	93	97	96	96	106	93	93	100	97	98	101	100	103	97	92	103	97	94	105
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	103	101	101	98	97	95	93	97	95	94	97	95	96	106	91	91	101	98	97	101	99	102	96	91	105	97	92	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	107	104	106	101	100	98	99	99	99	95	101	98	96	108	94	94	101	99	98	105	102	104	98	96	103	99	97	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	103	102	102	99	98	96	94	99	96	94	97	96	97	106	92	92	102	99	97	102	99	103	97	92	106	98	93	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	104	102	102	99	98	96	95	99	96	94	97	96	97	106	92	92	102	99	97	102	100	103	97	93	106	98	93	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A200-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	104	102	101	99	98	97	94	98	96	94	98	95	97	106	92	92	102	99	98	102	100	103	97	92	105	97	93	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	102	100	100	98	97	95	92	98	95	94	97	95	96	106	91	91	101	98	97	100	99	103	97	90	104	96	92	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	101	100	98	97	96	93	98	95	94	97	95	96	105	91	92	101	98	97	101	100	103	97	91	104	96	93	104
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	104	101	102	99	97	96	94	97	95	94	99	95	96	106	91	92	101	98	97	102	100	103	97	92	104	97	94	104
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A028 (SOIL) DATE : 01/28/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	7.80	2.46	1.34	-.640	.210	3.38	.060	-4.34	.140	.170	.280	-4.26	.500	.700	16.0	.530	.530	.010	115	.430	.130	46.2	.090	.290	-.140	.100	.180	-1.31
MRLA2803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.27	-.270	.260	-.070	-7.23	-.130	----	1.53	-.680	1.32	----	-1.58	5.58	----	.850	-1.96	-.930	106	3.35	.270	74.1	21.0	1.57	1.86	2.06	1.66	1.14
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.96	1.02	.090	-.740	.120	3.71	.010	-9.07	.010	.080	.150	-2.39	.270	.280	13.9	.290	.520	-.080	144	1.04	.000	54.4	.010	.260	.040	.330	.110	-1.69
10I108	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H054	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H055	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10L107	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	27.6	1.95	.030	.660	.430	3.66	.390	126	.500	.260	.790	1.51	.890	.690	28.7	.940	.910	.400	94.4	-.330	.220	48.9	.200	.560	-.070	.220	.490	5.31
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	25.3	1.18	-.980	.500	.380	3.31	.360	68.2	.460	.180	.620	1.79	.510	.380	25.1	.850	.910	.300	83.0	1.14	.250	45.8	.190	.490	.330	.520	.250	2.54
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	23.5	1.76	.400	.420	.370	3.47	.290	68.0	.520	.170	.890	.080	.430	-.280	23.7	.850	1.04	.410	128	1.07	.130	85.1	.240	1.02	.070	.810	.260	2.80
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	8.83	1.74	.480	-.450	.160	2.91	.070	55.5	.140	.210	.270	-.850	-.010	.620	20.7	.480	.440	-.110	84.6	1.05	.130	25.4	.050	.770	.020	.450	.070	1.39
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	49.2	1.60	.680	1.69	.790	3.23	.790	973	1.000	.540	1.43	13.5	1.54	.330	36.8	1.89	1.16	1.20	149	.720	.440	83.8	.600	1.07	.370	.560	.690	39.3
IPA048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	28.4	1.76	.430	.430	.400	2.53	.350	83.3	.500	.240	.780	2.07	.560	.600	29.3	.830	.960	.410	98.2	1.38	.190	46.3	.260	.580	.370	.470	.430	3.54
A219-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	21.8	1.96	-.750	.400	.330	2.38	.330	69.5	.360	.270	.830	1.52	.880	.560	19.0	.940	.940	.240	87.5	1.47	.160	31.9	.240	.400	.040	-.080	.310	2.78
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	23.6	1.11	-.250	.450	.370	3.00	.320	63.8	.470	.280	.840	5.82	.790	.470	27.5	.820	1.02	.370	91.2	.900	.160	32.5	.210	.750	-.170	.390	.190	2.58
IPA047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A200-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	22.1	.650	.470	.510	.360	3.36	.350	83.1	.480	.160	.720	2.17	.940	.430	26.0	.890	.950	.330	92.0	.790	.120	35.2	.270	.620	.530	.310	.300	3.70
IPA053SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	6.43	1.69	.280	-.530	.140	3.22	.040	52.7	-.050	.180	.390	-.680	.150	.130	17.7	.340	.480	.030	77.1	.880	.170	28.1	.120	.610	-.030	.310	.110	1.42
A251-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	6.34	1.61	-.360	-.530	.130	3.23	.030	52.3	.100	.070	.370	-3.90	.330	.020	13.2	.380	.440	.000	59.1	.850	.090	16.1	.100	.030	.140	.200	.080	1.49
IPA052WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	6.50	1.65	-.140	-.550	.130	3.32	.060	52.6	.110	.100	.320	-4.44	.180	-.040	17.3	.290	.570	-.010	101	-.710	.150	35.8	.100	-.220	.370	.280	.130	1.48

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A028001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8A028002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8A028003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8A028004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8A028005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8A028006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8A028007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8A028008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8A028009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8A028010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8A028011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8A028012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8A028013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8A028014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A028015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLA2803		ID8A028016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2804		ID8A028017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A028018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A028019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A028020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A028021			1	☒	3XIDL	None
22	9	2	9	1	Unk	10I108		ID8A028022			1	☒	unk	---
23	10	2	10	1	Unk	10H054		ID8A028023			1	☒	unk	---
24	11	2	11	1	Unk	10H055		ID8A028024			1	☒	unk	---
25	12	2	12	1	Unk	10L107		ID8A028025			1	☒	unk	---
26	13	2	1	2	QC	CCV2		ID8A028026			1	☒	CCV	None
27	14	2	2	2	QC	CCB2		ID8A028027			1	☒	3XIDL	None
28	16	2	4	2	QC	IPA045SB		ID8A028028			1	☒	1/2LOQ	None
29	60	2	12	5	QC	IPA045SL		ID8A028029			1	☒	LCS	None
30	61	3	1	1	QC	IPA045SC		ID8A028030			1	☒	LCS	None
31	62	3	2	1	Unk	MDLV-01	3050	ID8A028031			1	☒	unk	---
32	63	3	3	1	Unk	MDLV-02	3050	ID8A028032			1	☒	unk	---
33	64	3	4	1	Unk	MDLV-03	3050	ID8A028033			1	☒	unk	---
34	65	3	5	1	QC	MRLA2805		ID8A028034			1	☒	MRL-EMAX	None
35	66	3	6	1	QC	MRLA2806		ID8A028035			1	☒	MRL-AFCEE	None
36	67	3	7	1	QC	CCV3		ID8A028036			1	☒	CCV	None
37	68	3	8	1	QC	CCB3		ID8A028037			1	☒	3XIDL	None
38	69	3	9	1	QC	IPA039WQ		ID8A028038			1	☒	1/2LOQ	None
39	70	3	10	1	QC	IPA039WX		ID8A028039			1	☒	LCS	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	71	3	11	1	QC	IPA039WY		ID8A028040			1	☒	LCS	None
41	72	3	12	1	Unk	A135-02A		ID8A028041			1	☒	unk	---
42	73	3	1	2	Unk	A135-02W	K=5.58ppm	ID8A028042			1	☒	unk	---
43	74	3	2	2	Unk	A135-02J		ID8A028043			1	☒	unk	---
44	75	3	3	2	Unk	A135-03W	K=5.89 ppm	ID8A028044			1	☒	unk	---
45	76	3	4	2	Unk	A135-04W	K=5.86	ID8A028045			1	☒	unk	---
46	77	3	5	2	Unk	A135-05W	K=5.97	ID8A028046			1	☒	unk	---
47	78	3	6	2	Blank	Blank		ID8A028047			1	☐		---
48	79	3	7	2	QC	CCV4		ID8A028048			1	☒	CCV	None
49	80	3	8	2	QC	CCB4	K=0.128ppm	ID8A028049			1	☒	3XIDL	None
50	88	3	4	3	QC	IPA044SB		ID8A028050			1	☒	1/2LOQ	None
51	89	3	5	3	QC	IPA044SL		ID8A028051			1	☒	LCS	None
52	90	3	6	3	QC	IPA044SC		ID8A028052			1	☒	LCS	None
53	91	3	7	3	Unk	A169-03A		ID8A028053			1	☒	unk	---
54	92	3	8	3	Unk	A169-03	Fe7LOR	ID8A028054			1	☒	unk	---
55	93	3	9	3	Unk	A169-03J		ID8A028055			1	☒	unk	---
56	94	3	10	3	Unk	A169-03M		ID8A028056			1	☒	unk	---
57	95	3	11	3	Unk	A169-03S		ID8A028057			1	☒	unk	---
58	96	3	12	3	Blank	Blank		ID8A028058			1	☐		---
59	97	3	1	4	QC	CCV5		ID8A028059			1	☒	CCV	None
60	98	3	2	4	QC	CCB5		ID8A028060			1	☒	3XIDL	None
61	99	3	3	4	Unk	A169-03A	5X	ID8A028061			1	☒	unk	---
62	100	3	4	4	Unk	A169-03T	5X	ID8A028062			1	☒	unk	---
63	101	3	5	4	Unk	A169-03J	25X	ID8A028063			1	☒	unk	---
64	102	3	6	4	Unk	A169-03G	5X	ID8A028064			1	☒	unk	---
65	103	3	7	4	Unk	A169-03H	5X	ID8A028065			1	☒	unk	---
66	83	3	11	2	Unk	A169-01		ID8A028066			1	☒	unk	---
67	84	3	12	2	Unk	A169-02		ID8A028067			1	☒	unk	---
68	81	3	9	2	Unk	A135-06W Zn ND	K=9.61 Ca388	ID8A028068			1	☒	unk	---
69	82	3	10	2	Unk	A135-07W Zn ND	K=6.16 Ca172	ID8A028069			1	☒	unk	---
70	85	3	1	3	Blank	Blank		ID8A028070			1	☐		---
71	86	3	2	3	QC	CCV6		ID8A028071			1	☒	CCV	None
72	87	3	3	3	QC	CCB6 Zn=0.039	K=0.149 Ca0.973	ID8A028072			1	☒	3XIDL	None
73	29	2	5	3	QC	IPA048SB		ID8A028073			1	☒	1/2LOQ	None
74	30	2	6	3	QC	IPA048SL		ID8A028074			1	☒	LCS	None
75	31	2	7	3	QC	IPA048SC		ID8A028075			1	☒	LCS	None
76	32	2	8	3	Unk	A219-11A		ID8A028076			1	☒	unk	---
77	33	2	9	3	Unk	A219-11		ID8A028077			1	☒	unk	---
78	34	2	10	3	Unk	A219-11J		ID8A028078			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
79	35	2	11	3	Unk	A219-11M		ID8A028079			1	☒	unk	---
80	36	2	12	3	Unk	A219-11S		ID8A028080			1	☒	unk	---
81	37	2	1	4	Unk	A219-01		ID8A028081			1	☒	unk	---
82	38	2	2	4	Blank	Blank		ID8A028082			1	☐		---
83	39	2	3	4	QC	CCV7		ID8A028083			1	☒	CCV	None
84	40	2	4	4	QC	CCB7		ID8A028084			1	☒	3XIDL	None
85	41	2	5	4	Unk	A219-02		ID8A028085			1	☒	unk	---
86	42	2	6	4	Unk	A219-03		ID8A028086			1	☒	unk	---
87	43	2	7	4	Unk	A219-04		ID8A028087			1	☒	unk	---
88	44	2	8	4	Unk	A219-05		ID8A028088			1	☒	unk	---
89	45	2	9	4	Unk	A219-06		ID8A028089			1	☒	unk	---
90	46	2	10	4	Unk	A219-07		ID8A028090			1	☒	unk	---
91	47	2	11	4	Unk	A219-08		ID8A028091			1	☒	unk	---
92	48	2	12	4	Unk	A219-09		ID8A028092			1	☒	unk	---
93	15	2	3	2	Unk	A219-10		ID8A028093			1	☒	unk	---
94	50	2	2	5	Blank	Blank		ID8A028094			1	☐		---
95	51	2	3	5	QC	CCV8		ID8A028095			1	☒	CCV	None
96	52	2	4	5	QC	CCB8		ID8A028096			1	☒	3XIDL	None
97	49	2	1	5	Unk	A187-01	IS L	ID8A028097			1	☒	unk	---
98	53	2	5	5	Unk	A209-03	dried & sieved	ID8A028098			1	☒	unk	---
99	54	2	6	5	Unk	A209-04	dried & sieved	ID8A028099			1	☒	unk	---
100	55	2	7	5	Unk	A209-07	dried & sieved	ID8A028100			1	☒	unk	---
101	56	2	8	5	Unk	A209-09	dried & sieved	ID8A028101			1	☒	unk	---
102	57	2	9	5	Blank	Blank		ID8A028102			1	☐		---
103	58	2	10	5	QC	CCV9		ID8A028103			1	☒	CCV	None
104	59	2	11	5	QC	CCB9		ID8A028104			1	☒	3XIDL	None
105	17	2	5	2	QC	IPA047SB		ID8A028105			1	☒	1/2LOQ	None
106	18	2	6	2	QC	IPA047SL		ID8A028106			1	☒	LCS	None
107	19	2	7	2	QC	IPA047SC		ID8A028107			1	☒	LCS	None
108	20	2	8	2	Unk	A200-03A	10X	ID8A028108			1	☒	unk	---
109	21	2	9	2	Unk	A200-03T	10X	ID8A028109			1	☒	unk	---
110	22	2	10	2	Unk	A200-03J	50X	ID8A028110			1	☒	unk	---
111	23	2	11	2	Unk	A200-01T	10X	ID8A028111			1	☒	unk	---
112	24	2	12	2	Unk	A200-02T	10X	ID8A028112			1	☒	unk	---
113	25	2	1	3	Unk	A133-01T	10X	ID8A028113			1	☒	unk	---
114	26	2	2	3	Unk	A133-02T	10X	ID8A028114			1	☒	unk	---
115	27	2	3	3	QC	CCV10		ID8A028115			1	☒	CCV	None
116	28	2	4	3	QC	CCB10		ID8A028116			1	☒	3XIDL	None
117	104	3	8	4	QC	IPA053SB		ID8A028117			1	☒	1/2LOQ	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	105	3	9	4	QC	IPA053SL		ID8A028118			1	☒	LCS	None
119	106	3	10	4	QC	IPA053SC		ID8A028119			1	☒	LCS	None
120	107	3	11	4	Unk	A251-06A		ID8A028120			1	☒	unk	—
121	108	3	12	4	Unk	A251-06		ID8A028121			1	☒	unk	—
122	109	3	1	5	Unk	A251-06J		ID8A028122			1	☒	unk	—
123	110	3	2	5	Unk	A251-06M		ID8A028123			1	☒	unk	—
124	111	3	3	5	Unk	A251-06S		ID8A028124			1	☒	unk	—
125	112	3	4	5	Blank	Blank		ID8A028125			1	☐		—
126	113	3	5	5	QC	CCV11		ID8A028126			1	☒	CCV	None
127	114	3	6	5	QC	CCB11		ID8A028127			1	☒	3XIDL	None
128	115	3	7	5	Unk	A251-01		ID8A028128			1	☒	unk	—
129	116	3	8	5	Unk	A251-02		ID8A028129			1	☒	unk	—
130	117	3	9	5	Unk	A251-03		ID8A028130			1	☒	unk	—
131	118	3	10	5	Unk	A251-04		ID8A028131			1	☒	unk	—
132	119	3	11	5	Unk	A251-05		ID8A028132			1	☒	unk	—
133	123	4	3	1	Unk	A251-07		ID8A028133			1	☒	unk	—
134	136	4	4	2	Unk	A195-04T	5X	ID8A028134			1	☒	unk	—
135	120	3	12	5	Blank	Blank		ID8A028135			1	☐		—
136	121	4	1	1	QC	CCV12		ID8A028136			1	☒	CCV	None
137	122	4	2	1	QC	CCB12		ID8A028137			1	☒	3XIDL	None
138	124	4	4	1	QC	IPA052WB		ID8A028138			1	☒	1/2LOQ	None
139	125	4	5	1	QC	IPA052WL		ID8A028139			1	☒	LCS	None
140	126	4	6	1	QC	IPA052WC		ID8A028140			1	☒	LCS	None
141	127	4	7	1	Unk	A220-03A		ID8A028141			1	☒	unk	—
142	128	4	8	1	Unk	A220-03		ID8A028142			1	☒	unk	—
143	129	4	9	1	Unk	A220-03J		ID8A028143			1	☒	unk	—
144	130	4	10	1	Unk	A220-03M		ID8A028144			1	☒	unk	—
145	131	4	11	1	Unk	A220-03S		ID8A028145			1	☒	unk	—
146	132	4	12	1	Unk	A220-02		ID8A028146			1	☒	unk	—
147	133	4	1	2	Blank	Blank		ID8A028147			1	☐		—
148	134	4	2	2	QC	CCV13		ID8A028148			1	☒	CCV	None
149	135	4	3	2	QC	CCB13		ID8A028149			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00133	.00002	-.00001	.00066	.00011	.00031	-.00004	.00050	.00001	-.00102	Blank
2	S20					.90773		.12142				S20
3	S21					8.9517		1.1529				S21
4	S22				.49545						.16319	S22
5	S23				4.9123						1.7071	S23
6	S24						.09573					S24
7	S25						.99576					S25
8	S26	.27358							.84950	.13335		S26
9	S27	9.8712							7.7742	1.2705		S27
10	S28		.00550									S28
11	S29		.05429									S29
12	S30			.00134								S30
13	S31			.00544								S31
14	ICV	106.06	1.4799	1.0498	1.9857	1.5195	2.4658	1.9982	77.955	2.5001	.91864	ICV
15	ICB	.00780	.00246	.00134*	-.00064*	.00021	.00338	.00006	-.00434	.00014	.00017	ICB
16	MRLA2803	.22480	.10311	.00974	.00988	.01012	.00973	.01049	1.0700	.01070	.00927	MRLA2803
17	MRLA2804	.22001	.05288	.01113	.00463	.00429	.09600	.00542	.52874	.01056	.00930	MRLA2804
18	ICSA1	394.86	.00827	-.00027	.00026	-.00007	-.00723	-.00013	480.83	.00153	-.00068	ICSA1
19	ICSAB1	398.45	1.0526	1.0709	.53870	.49632	.49670	.94320	480.81	.48190	.46963	ICSAB1
20	CCV1	103.37	1.5408	1.0304	1.9888	1.4858	2.4270	1.9326	75.056	2.4452	.94145	CCV1
21	CCB1	.00596	.00102	.00009	-.00074*	.00012	.00371	.00001	-.00907	.00001	.00008	CCB1
22	10I108	.01638	2.4363	.00028	.00013	-.00008	.46125	.00007	.00923	.00000	.00005	10I108
23	10H054	5.2457	-.00482	.49944	.51146	.51797	.00186	.52213	.06100	.52390	.48040	10H054
24	10H055	-.00393	2.4391	-.00042	-.00037	-.00006	.46552	.00010	.00407	.00002	.00011	10H055
25	10L107	5.2557	-.00472	.50684	.50699	.51745	.00126	.53047	.00842	.52906	.47611	10L107
26	CCV2	104.62	1.5362	1.0485	1.9949	1.5053	2.4514	1.9814	76.010	2.4991	.93766	CCV2
27	CCB2	.02758	.00195	.00003	.00066*	.00043	.00366	.00039*	.12633	.00050*	.00026*	CCB2
28	IPA045SB	.00517	.00138	-.00220	.00273	.00003	.00118	-.00010	.09482	.00012	-.00005	IPA045SB
29	IPA045SL	5.0171	2.4403	.50451	.49204	.49712	.45321	.49413	50.801	.50582	.47913	IPA045SL
30	IPA045SC	4.9607	2.3969	.49758	.49045	.49586	.44885	.48826	50.325	.50382	.47902	IPA045SC
31	MDLV-01	.04802	.02857	.00306	.00117	.00206	.01025	.00089	.11336	.00190	.00188	MDLV-01
32	MDLV-02	.00091	.01019	-.00135	-.00080	.00008	.00087	-.00007	.00337	.00015	.00006	MDLV-02
33	MDLV-03	.00123	.02038	-.00143	-.00077	.00011	.00070	.00003	.00192	.00021	.00012	MDLV-03
34	MRLA2805	.20855	.10050	.00989	.00944	.00990	.00878	.01009	1.0684	.01035	.00925	MRLA2805
35	MRLA2806	.20292	.05059	.00963	.00453	.00419	.09314	.00515	.53333	.01018	.00915	MRLA2806
36	CCV3	102.55	1.5257	1.0210	1.9704	1.4837	2.4227	1.9356	75.707	2.4525	.93561	CCV3
37	CCB3	.02534	.00118	-.00098	.00050*	.00038	.00331	.00036*	.06825	.00046	.00018	CCB3
38	IPA039WQ	.00602	-.00019	.00079	-.00065	-.00001	.00318	.00000	.00697	-.00011	.00014	IPA039WQ
39	IPA039WX	5.5776	2.6219	.54153	.50773	.51139	.50401	.52360	52.581	.52427	.48697	IPA039WX
40	IPA039WY	5.7202	2.6697	.55068	.51700	.51910	.51002	.52965	51.707	.52835	.49502	IPA039WY
41	A135-02A	6.0750	2.6319	.64217	.95325	.51100	.74021	.50563	252.09	.51725	.49368	A135-02A
42	A135-02W	.24454	.00200	.07777	.44547	.00007	.22827	-.00013	210.92	.00119	-.00041	A135-02W
43	A135-02J	.02900	.00093	.01470	.08688	.00001	.04409	-.00001	43.310	.00053	-.00005	A135-02J
44	A135-03W	.50774	-.00003	.09025	.31212	-.00007	.27053	-.00015	185.54	.00144	-.00034	A135-03W
45	A135-04W	.26418	-.00016	.08989	.30843	-.00004	.26468	-.00009	185.59	.00118	-.00049	A135-04W
46	A135-05W	.17094	.00016	.08441	.40898	-.00006	.26645	-.00006	185.05	.00107	-.00030	A135-05W
47	Blank	.01960	.00061	-.00075	.00062	.00022	.00121	.00032	.09197	.00040	.00021	Blank
48	CCV4	103.17	1.5268	1.0211	1.9742	1.4710	2.4171	1.8979	74.253	2.4088	.94031	CCV4
49	CCB4	.02349	.00176	.00040	.00042*	.00037	.00347	.00029*	.06802	.00052*	.00017	CCB4
50	IPA044SB	.00468	.00106	-.00168	-.00068	.00001	.00113	-.00015	.02119	.00019	.00002	IPA044SB
51	IPA044SL	5.3044	2.5047	.51784	.50860	.50839	.46347	.50101	51.585	.51596	.50005	IPA044SL
52	IPA044SC	5.3144	2.5093	.51464	.51170	.50826	.46479	.49811	51.666	.51523	.50081	IPA044SC
53	A169-03A	102.16	2.4662	1.0258	.78397	.53065	.47345	.48227	67.653	.63865	.96347	A169-03A
54	A169-03	95.996	.03688	.50185	.27141	.02624	.03396	.00382	17.910	.13983	.47162	A169-03

55	A169-03J	19.883	.00674	.09952	.05347	.00531	.00164	-.00078	3.6773	.02818	.09273	A169-03J
56	A169-03M	142.80	2.2391	1.1016	.76948	.52862	.44776	.47579	68.804	.68936	.70375	A169-03M
57	A169-03S	148.24	2.1713	1.0174	73997	.50867	.44485	.45586	68.531	.66303	.56093	A169-03S
58	Blank	.02874	.00203	-.00021	.00052	.00033	.00143	.00034	.08205	.00040	.00026	Blank
59	CCV5	102.99	1.5082	1.0134	1.9653	1.4685	2.4065	1.9007	74.342	2.4135	.93291	CCV5
60	CCB5	.00883	.00174	.00048	-.00045*	.00016	.00291	.00007	.05554	.00014	.00021*	CCB5
61	A169-03A	26.478	2.4818	.63459	.57044	.52519	.48773	.50669	55.608	.54812	.59183	A169-03A
62	A169-03T	20.321	.00929	.10151	.05433	.00549	.00187	-.00075	3.6905	.02873	.09294	A169-03T
63	A169-03J	4.0478	.00085	.02154	.01029	.00111	.00001	.00005	.73101	.00581	.01843	A169-03J
64	A169-03G	30.133	.44341	.22218	.15514	.11030	.08919	.10183	14.221	.14426	.13920	A169-03G
65	A169-03H	31.628	.43401	.20507	.15031	.10662	.08795	.09780	14.168	.13878	.11210	A169-03H
66	A169-01	82.037	.00086	.03065	.27147	.00346	.02487	-.00044	8.6189	.07457	.02587	A169-01
67	A169-02	67.381	.00230	.04859	.34124	.00363	.02833	-.00015	29.225	.09250	.03239	A169-02
68	A135-06W	.06108	.00019	.02859	.54927	-.00009	.26654	-.00010	387.65	.00104	.00167	A135-06W
69	A135-07W	.89255	.00030	.07150	.51544	-.00004	.29629	-.00002	172.10	.00192	.00003	A135-07W
70	Blank	.01984	.00002	.00102	.00054	.00022	.00085	.00032	.09103	.00033	.00023	Blank
71	CCV6	102.91	1.5217	1.0078	1.9624	1.4533	2.3857	1.8611	73.120	2.3692	.93585	CCV6
72	CCB6	.04917	.00160	.00068	.00169*	.00079	.00323	.00079*	.97349*	.00100*	.00054*	CCB6
73	IPA048S8	.00194	.00106	-.00236	.00065	-.00003	.00097	-.00012	.01683	.00019	-.00003	IPA048S8
74	IPA048SL	5.3328	2.5725	.51912	.51775	.51457	.47406	.49675	52.790	.51643	.51537	IPA048SL
75	IPA048SC	5.3720	2.5741	.51541	.52269	.51622	.47405	.49340	53.282	.52042	.52056	IPA048SC
76	A219-11A	104.58	2.4335	.59134	1.5420	.50375	.46074	.46868	75.076	.67875	.55752	A219-11A
77	A219-11	99.147	.01197	.09263	1.0673	.00751	.01598	.00702	26.043	.20314	.06437	A219-11
78	A219-11J	21.267	.00274	.01974	.21557	.00160	.00233	.00123	5.3456	.04216	.01274	A219-11J
79	A219-11M	146.01	2.3796	.61309	1.4311	.53248	.47139	.51957	73.944	.79826	.56528	A219-11M
80	A219-11S	156.47	2.3807	.61898	1.8253	.52926	.47074	.50342	79.470	.76584	.58487	A219-11S
81	A219-01	96.309	.01004	.07290	1.3407	.00710	.00587	.00040	11.734	.17662	.05650	A219-01
82	Blank	.05455	.00155	.00076	.00248	.00053	.00070	.00067	.67594	.00088	.00044	Blank
83	CCV7	107.27	1.5548	1.0568	2.0202	1.4991	2.4471	1.9707	74.251	2.4749	.94501	CCV7
84	CCB7	.02842	.00176	.00043	.00043*	.00040	.00253	.00035*	.08329	.00050*	.00024*	CCB7
85	A219-02	106.56	.01113	.10120	1.3282	.00880	.01231	-.00012	10.514	.24432	.06273	A219-02
86	A219-03	96.919	.01181	.10196	.86796	.00813	.01852	.04437	29.789	.31043	.06580	A219-03
87	A219-04	104.23	.01181	.11882	.76748	.00882	.01553	.00064	12.104	.25266	.05268	A219-04
88	A219-05	112.91	.01323	.14213	1.0204	.01021	.02824	.01110	30.942	.26236	.06324	A219-05
89	A219-06	92.289	.01435	.15282	.84063	.00921	.02685	.00862	23.117	.27032	.07056	A219-06
90	A219-07	114.11	.00758	.09476	1.0550	.00869	.01583	.00515	21.984	.18733	.06290	A219-07
91	A219-08	87.193	.00994	.09499	1.0499	.00694	.01220	.00125	15.474	.20711	.05027	A219-08
92	A219-09	88.810	.00850	.09206	1.1741	.00721	.01242	-.00003	15.992	.29857	.04928	A219-09
93	A219-10	73.830	.00739	.06088	.83626	.00548	.01115	.00887	22.786	.12758	.04081	A219-10
94	Blank	.02538	.00088	.00058	.00064	.00023	.00013	.00032	.07334	.00049	.00028	Blank
95	CCV8	102.88	1.5366	1.0182	1.9786	1.4688	2.4056	1.8840	74.036	2.3951	.94150	CCV8
96	CCB8	.02177	.00196	-.00075	.00040*	.00033	.00238	.00033*	.06954	.00036	.00027*	CCB8
97	A187-01	540.49*	.13813	.17321	14.093	.01084	3.7398	.11230	885.95	1.5138	.21148	A187-01
98	A209-03	83.873	.00968	.06601	1.2487	.00717	.01540	.11345	37.167	.15178	.08099	A209-03
99	A209-04	177.01	.01298	.11687	.80377	.01094	.03750	.00989	20.126	.30272	.08555	A209-04
100	A209-07	147.70	.01562	.12290	1.1678	.01014	.03133	.09290	22.979	.24931	.09646	A209-07
101	A209-09	79.758	.01239	.09137	.93027	.00808	.02954	.00272	14.742	.31302	.06575	A209-09
102	Blank	.02483	-.00015	.00048	.00064	.00024	.00010	.00032	.07217	.00038	.00015	Blank
103	CCV9	103.57	1.5349	1.0207	1.9761	1.4683	2.4020	1.8929	74.119	2.4014	.94368	CCV9
104	CCB9	.02362	.00111	-.00025	.00045*	.00037	.00300	.00032*	.06381	.00047	-.00028*	CCB9
105	IPA047SB	.06104	.10279*	-.00023	.00543*	-.00002	.00101	.00003	2.3217*	.00100	.00013	IPA047SB
106	IPA047SL	5.3857	2.5957	.53857	.53328	.53424	.47460	.50688	55.867	.53433	.53049	IPA047SL
107	IPA047SC	5.3004	2.6228	-.53369	.52818	.52884	.47685	.50196	55.813	.53062	.52728	IPA047SC
108	A200-03A	7.2064	2.5522	.51935	.93239	.50838	.49599	.52427	59.683	.54578	.49994	A200-03A
109	A200-03T	1.6730	.08768	.00222	.43815	.00009	.01561	.04117	8.7890	.04707	.01187	A200-03T
110	A200-03J	.37540	.01682	.00084	.08517	.00006	.00297	.00810	1.7463	.00901	.00240	A200-03J
111	A200-01T	30.988	.15442	.01592	.86912	.00040	.07493	.50486	43.065	1.6431	.08240	A200-01T

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
112	A200-02T	1.4206	.04462	.00202	.09855	.00008	.00596	.01874	2.8212	.07973	.00279	A200-02T
113	A133-01T	33.153	.60144	.03167	1.9090	.00094	.07156	.17509	45.364	1.0672	.05780	A133-01T
114	A133-02T	22.021	.12696	.02045	1.2158	.00044	.14187	.28133	53.860	.34613	.09193	A133-02T
115	CCV10	103.72	1.5302	1.0142	1.9797	1.4681	2.4131	1.8752	73.833	2.3917	.94422	CCV10
116	CCB10	.02207	.00065	.00047	.00051*	.00036	.00336	.00035*	.08310	.00048	.00016	CCB10
117	IPA053SB	.01381	.00195	-.00220	-.00071	-.00001	.00161	-.00019	.02667	.00024	-.00013	IPA053SB
118	IPA053SL	5.2581	2.5473	.51299	.51250	.51038	.46770	.49146	52.564	.51222	.51124	IPA053SL
119	IPA053SC	5.2688	2.5556	.51471	.51446	.51252	.47220	.49203	52.623	.51414	.51319	IPA053SC
120	A251-06A	45.801	2.9822	.51717	.68659	.49935	.46508	.46766	54.783	.54916	.50521	A251-06A
121	A251-06	39.690	.58351	.01654	.19052	.00099	.01257	.00021	4.6163	.05566	.00699	A251-06
122	A251-06J	7.9210	.11480	.00309	.03646	.00025	.00268	.00010	.90958	.01151	.00146	A251-06J
123	A251-06M	87.099	2.4568	.50935	.70627	.50977	.47609	.47587	55.247	.57789	.51864	A251-06M
124	A251-06S	66.153	2.5155	.51682	.66442	.51720	.47743	.48540	56.210	.56536	.52205	A251-06S
125	Blank	.02281	.00241	.00017	.00060	.00033	.00110	.00037	.07576	.00039	.00031	Blank
126	CCV11	102.47	1.5042	.99671	1.9631	1.4530	2.3873	1.8361	73.272	2.3704	.93722	CCV11
127	CCB11	.00643	.00169	.00028	-.00053*	.00014	.00322	.00004	.05266	-.00005	.00018	CCB11
128	A251-01	33.555	.00212	.01783	.07196	.00117	.00725	-.00039	1.9547	.08281	.00657	A251-01
129	A251-02	52.924	.00080	.00535	.42311	.00114	.01458	-.00035	8.7177	.06717	.01218	A251-02
130	A251-03	33.466	.02891	.01033	.37850	.00094	.01119	.00517	11.063	.05959	.00953	A251-03
131	A251-04	28.073	.00350	.00643	.18960	.00071	.00775	.00168	5.2905	.04664	.00516	A251-04
132	A251-05	32.235	.00450	.00656	.25988	.00087	.00864	.00363	6.3482	.05545	.00654	A251-05
133	A251-07	.00772	-.00011	.00005	-.00077	.00006	-.00137	.00011	.03236	.00010	.00006	A251-07
134	A195-04T	19.790	.00327	.03399	.20074	.00206	-.00069	-.00001	2.7996	.11605	.02617	A195-04T
135	Blank	.00593	-.00026	.00122	-.00047	.00005	-.00033	.00011	-.00351	.00003	.00018	Blank
136	CCV12	102.00	1.5077	1.0027	1.9630	1.4562	2.4004	1.8586	73.303	2.3855	.93641	CCV12
137	CCB12	.00634	.00161	-.00036	-.00053*	.00013	.00323	.00003	.05226	.00010	.00007	CCB12
138	IPA052WB	.00458	.00079	-.00113	-.00086	-.00005	.00244	-.00005	-.00756	.00001	.00012	IPA052WB
139	IPA052WL	5.5939	2.5800	.52485	.50584	.50838	.50198	.49543	50.593	.50403	.48961	IPA052WL
140	IPA052WC	5.6051	2.5977	.53039	.50957	.51202	.50324	.49956	50.765	.50491	.49224	IPA052WC
141	A220-03A	5.6951	2.5423	.54026	.58852	.50740	.54726	.49020	111.26	.50306	.48720	A220-03A
142	A220-03	.00840	.00244	.00220	.08442	.00002	.05377	.00006	63.856	.00492	-.00023	A220-03
143	A220-03J	.00646	.00087	.00064	.01646	.00004	.01082	.00004	12.957	.00111	.00000	A220-03J
144	A220-03M	5.7075	2.6066	.53881	.59806	.51156	.55927	.49068	114.69	.50736	.48940	A220-03M
145	A220-03S	5.5199	2.5523	.52470	.58131	.49769	.54564	.47873	111.23	.49317	.47534	A220-03S
146	A220-02	.00918	.00201	.00295	.08603	.00004	.05145	.00003	62.392	.00804	-.00025	A220-02
147	Blank	.00402	.00030	-.00003	-.00047	.00005	.00047	.00013	.00272	.00009	.00021	Blank
148	CCV13	104.04	1.5195	1.0152	1.9753	1.4605	2.4067	1.8718	72.920	2.3853	.93758	CCV13
149	CCB13	.00650	.00165	-.00014	-.00055*	.00013	.00332	.00006	.05256	.00011	.00010	CCB13

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00146	.00003	-.00003	.00005	-.00001	.00003	.00005	-.00057	-.00014	.00000	Blank
2	S20			.20182			.11364					S20
3	S21			1.9879			1.1283					S21
4	S22	.35415	.05632									S22
5	S23	3.5029	2.1514									S23
6	S24							.80186				S24
7	S25							8.002B				S25
B	S26								.81961	.32322		S26
9	S27								7.7352	3.2382		S27
10	S28					.10456						S28
11	S29					.43021						S29
12	S30				.02882						.00150	S30
13	S31				.14222						.00604	S31
14	ICV	2.4830	24.968	2.3886	.53370	57.729	2.3575	2.4432	2.4439	59.359	1.0316	ICV
15	ICB	.00028	-.00426	.00050	.00070	.01596	.00053*	.00053*	.00001	.11462*	.00043	ICB
16	MRLA28D3	.01046	.20669	.01007	.01026	.98024	.01030	.01012	.01003	1.0225	.01132	MRLA28D3
17	MRLA2804	.01078	.10040	.00324	.09947	.19855	.00541	.01011	.01002	.97226	.01035	MRLA2804
18	ICSA1	.00132	182.67	-.00158	.00558	188.58	.00085	-.00196	-.00093	.10609	.00335	ICSA1
19	ICSAB1	.53158	185.57	.94246	1.1511	192.11	.46165	1.0333	.98569	79.619	1.0681	ICSAB1
20	CCV1	2.4509	24.373	2.4189	.53247	56.381	2.3502	2.5274	2.4700	58.942	1.0330	CCV1
21	CCB1	.00015	-.00239	.00027	.00028	.01395	.00029	.00052*	-.00008	.14412*	.00104	CCB1
22	10I108	.00081	.00236	.00013	-.00014	.00220	.00032	.47390	-.00038	.07417	-.00007	10I108
23	10H054	.50548	5.4188	.5178B	.00000	.01553	.50902	.00049	.45180	.03773	.49869	10H054
24	10H055	.00076	.00213	-.00002	.00027	-.00168	.00024	.47206	-.00051	.03525	-.00055	10HD55
25	10L107	.50849	5.3934	.50961	-.00001	.00824	.51194	.00036	.44678	.03513	.49924	10L107
26	CCV2	2.4725	24.677	2.3992	.53475	57.596	2.3869	2.5082	2.4524	58.970	1.0437	CCV2
27	CCB2	.00079	.00151	.00089	.00069	.02868	.00094*	.00091*	.00040	.09444	-.00033	CCB2
28	IPA045S8	.00001	.01455	.00067	-.00047	.01500	.00046	.00032	-.00010	.08265	.00053	IPA045SB
29	IPA045SL	.49263	5.0798	.48138	.52211	47.510	.47932	.52429	.46519	48.266	.49483	IPA045SL
30	IPA045SC	.48815	5.0401	.48224	.52190	46.888	.47904	.51918	.46524	48.036	.49079	IPA045SC
31	MDLV-01	.00196	.02757	.00235	.01045	.11298	.00207	.00495	.00203	.25213	.00516	MDLV-01
32	MDLV-02	.00008	.00073	.00050	.00039	.01452	.00101	.00020	-.00007	.09806	.00135	MDLV-02
33	MDLV-03	.00011	.01053	-.00055	-.00018	.01834	.00155	.00026	-.00012	.30517	.00106	MDLV-03
34	MRLA2805	.00976	.20564	.01020	.01047	.97066	.01004	.01006	.01008	.96495	.01092	MRLA2805
35	MRLA2806	.01007	.09895	.00322	.09709	.20121	.00532	.00985	.01039	.93931	.01134	MRLA2806
36	CCV3	2.4150	24.268	2.4120	.52929	56.678	2.3530	2.4892	2.4440	58.778	1.0217	CCV3
37	CCB3	.00062	.00179	.00051	.00038	.02506	.00085*	.00091*	.00030	.08297	.00114	CCB3
38	IPA039WQ	.00039	-.00170	.00051	-.00016	.00797	.00021	.00016	.00003	.06277	.00019	IPA039WQ
39	IPA039WX	.51409	5.3246	.50304	.00017*	49.411	.49536	.51954	.47376	50.051	.53183	IPA039WX
40	IPA039WY	.52679	5.4006	.51113	.00025*	48.761	.52134	.53018	.48264	49.371	.53981	IPA039WY
41	A135-02A	.54773	11.900	.50331	.00700	100.10	4.3214	.56181	.47576	58.671	.55725	A135-02A
42	A135-02W	.00164	6.9810	.00163	.00677	52.390	3.9470	.03694	.00033	5.5754	.00129	A135-02W
43	A135-02J	.00072	1.4248	.00021	.00116	10.330	.80162	.00700	-.00017	1.0820	.00063	A135-02J
44	A135-03W	.00208	5.2308	.00217	.00458	45.245	3.4383	.03913	.00057	5.8891	-.00007	A135-03W
45	A135-04W	.00167	5.0215	.00091	.00485	45.188	3.5166	.03924	.00028	5.8622	.00004	A135-04W
46	A135-05W	.00215	6.3974	.00140	.00477	45.462	2.8443	.04522	.00119	5.9707	-.00031	A135-05W
47	Blank	.00064	.00081	.00045	.00087	.01751	.00088	.00060	.00036	.09B87	-.00011	Blank
48	CCV4	2.4415	23.918	2.4190	.53367	55.355	2.3163	2.5214	2.4597	58.626	1.0214	CCV4
49	CCB4	.00089	.00008	.00043	-.0002B	.02372	.00085*	.00104*	.00041	.12771*	.00107	CCB4
50	IPA044SB	.00026	.00566	-.00001	-.00082	.01585	.00023	.00034	-.00019	.11792	.00088	IPA044SB
51	IPA044SL	.51B33	5.1717	.49896	-.00003*	48.191	.48854	.54320	.48406	49.898	.50583	IPA044SL
52	IPA044SC	.51801	5.1759	.49990	.00037*	48.294	.49080	.54785	.48587	50.407	.50590	IPAD44SC
53	A169-03A	.63430	497.56*	.57457	.03221	61.326	4.3659	.67648	.77615	56.435	.53485	A169-03A
54	A169-03	.09690	509.50*	.08207	.03062	14.351	3.9851	.14039	.30126	6.0717	.02841	A169-03

55	A169-03J	.01911	109.46	.01698	.00636	2.9402	.81672	.02657	.05920	1.1841	.00637	A169-03J
56	A169-03M	.64580	554.53*	.57894	.04524	64.395	4.0087	.69601	.82177	57.859	.53526	A169-03M
57	A169-03S	.61405	508.47*	.55544	.04731	63.634	.95569	.65515	.71027	56.477	.51801	A169-03S
58	Blank	.00068	.03771	.00109	-.00013	.02351	.00074	.00075	.00039	.10713	-.00020	Blank
59	CCV5	2.4323	23.878	2.3914	.53135	55.736	2.3210	2.4945	2.4365	58.544	1.0123	CCV5
60	CCB5	.00027	-.00085	-.00001	.00062	.02065	.00048	.00044*	-.00011	.08455	.00105	CCB5
61	A169-03A	.54475	113.30	.52122	.00705	51.394	1.3105	.54477	.53967	51.675	.52693	A169-03A
62	A169-03T	.01951	110.45	.01691	.00622	2.9702	.82664	.02667	.05950	1.2434	.00549	A169-03T
63	A169-03J	.00329	22.313	.00400	.00127	.60164	.16720	.00523	.01180	.27294	.00214	A169-03J
64	A169-03G	.12663	121.37	.11799	.00875	13.194	.84152	.13160	.16376	11.053	.10768	A169-03G
65	A169-03H	.12238	112.23	.11453	.00904	13.089	.19968	.12519	.14256	10.850	.10499	A169-03H
66	A169-01	.02803	80.106	.03184	.06222	20.468	.50436	.00109	.02708	13.599	.00102	A169-01
67	A169-02	.07631	96.703	.09481	.07142	21.435	.95436	.04551	.04069	19.853	.00417	A169-02
68	A135-06W	.00216	9.1521	.00168	.03441	124.99	2.7147	.05430	.00343	9.6132	.00026	A135-06W
69	A135-07W	.00288	3.1220	.00113	.00547	39.832	3.0743	.04376	.00086	6.1597	.00106	A135-07W
70	Blank	.00053	.00014	.00043	.00034	.01958	.00104	.00059	.00030	.10371	.00057	Blank
71	CCV6	2.4256	23.746	2.4012	.52850	54.651	2.2803	2.5209	2.4495	57.949	1.0130	CCV6
72	CCB6	.00143*	.01349	.00154	.00033	.03678	.00189*	.00116*	.00120*	.14890*	.00072	CCB6
73	IPA048SB	.00022	.00776	.00033	-.00027	.00938	.00001	.00029	-.00009	.08946	.00110	IPA048SB
74	IPA048SL	.51931	5.2757	.51838	.00042*	48.540	.49126	.56660	.50021	51.089	.51167	IPA048SL
75	IPA048SC	.52309	5.2971	.52380	.00055*	48.902	.49628	.57246	.50398	51.805	.51082	IPA048SC
76	A219-11A	.61164	216.60	.70324	.04855	53.690	4.2821	.54536	.52726	54.746	.49899	A219-11A
77	A219-11	.10309	221.21	.22154	.04707	7.9961	4.0278	.01057	.05479	5.6699	.00633	A219-11
78	A219-11J	.02093	46.610	.04582	.00912	1.6762	.83633	.00215	.01071	1.1565	.00204	A219-11J
79	A219-11M	.60019	226.74	.70191	.08577	59.837	3.5911	.55274	.54898	61.062	.52044	A219-11M
80	A219-11S	.60419	235.52	.71530	.08994	62.485	5.8608	.55328	.55125	61.152	.51953	A219-11S
81	A219-01	.05694	171.82	.18517	.04638	6.3160	3.5805	.00813	.05868	5.8348	.00700	A219-01
82	Blank	.00121	.02357	.00082	-.00006	.03134	.00197	.00095	.00093	.07272	.00048	Blank
83	CCV7	2.5328	24.503	2.4065	.54058	56.601	2.3601	2.5357	2.4727	58.813	1.0527	CCV7
84	CCB7	.00078	.00207	.00056	.00060	.02933	.00083*	.00096*	.00041	.09821	.00138	CCB7
85	A219-02	.06523	265.38	.16173	.05383	6.4292	2.8376	.01030	.09203	6.3992	.00707	A219-02
86	A219-03	.07868	251.12	.21938	.06066	6.9869	2.5152	.00993	.10674	8.0037	.00896	A219-03
87	A219-04	.06407	281.19	.16870	.06650	5.7951	1.8646	.01333	.10359	7.4771	.00961	A219-04
88	A219-05	.10702	314.98	.28168	.07147	11.649	2.4939	.01289	.10088	8.7548	.01087	A219-05
89	A219-06	.08966	311.88	.27117	.05356	8.1445	2.6152	.01158	.09636	7.1911	.00915	A219-06
90	A219-07	.08490	210.98	.18160	.07373	8.1964	2.4851	.00967	.08129	8.6586	.00926	A219-07
91	A219-08	.06117	226.32	.22683	.04264	5.6000	3.3177	.01058	.05022	5.6036	.00854	A219-08
92	A219-09	.05434	222.21	.18224	.04413	5.6235	3.1301	.00947	.05557	5.4385	.00899	A219-09
93	A219-10	.05187	145.49	.20243	.03654	5.8401	2.7573	.00651	.04366	5.0453	.00660	A219-10
94	Blank	.00061	.01087	.00053	.00060	.01862	.00100	.00065	.00038	.02772	.00089	Blank
95	CCV8	2.4350	24.105	2.4160	.53067	55.364	2.3048	2.5403	2.4643	58.386	1.0223	CCV8
96	CCB8	.00083	.00152	.00088	.00056	.01902	.00094*	.00094*	.00024	.08752	.00147	CCB8
97	A187-01	42.653*	1191.0*	4.0848	.22391	515.53	18.542	.24925	1.4391	413.61	.31408	A187-01
98	A209-03	.10169	173.31	.93098	.06093	7.7692	2.7097	.00642	.11316	6.2075	.00744	A209-03
99	A209-04	.10132	328.28	.24435	.10859	16.358	2.2749	.01226	.17037	10.516	.01230	A209-04
100	A209-07	.15966	303.68	1.6821	.09664	11.618	2.4695	.00952	.21907	8.7369	.01632	A209-07
101	A209-09	.07509	305.67	.25456	.04078	4.6479	2.9778	.01048	.11996	5.3272	.00741	A209-09
102	Blank	.00072	.02250	.00065	.00011	.01668	.00102	.00062	.00026	.05074	-.00023	Blank
103	CCV9	2.4355	24.021	2.4249	.52802	55.419	2.3102	2.5446	2.4678	58.208	1.0248	CCV9
104	CCB9	.00084	.00582	.00079	.00047	.02754	.00082*	.00102*	.00037	.09125	.00090	CCB9
105	IPA047SB	.00170	.08128	.00032	.00040	.19748	.00366	.00051	.00302	.18069	.00780*	IPA047SB
106	IPA047SL	.53437	5.3971	.52349	.00101*	49.760	.50459	.56538	.51006	51.354	.55989	IPA047SL
107	IPA047SC	.52948	5.3264	.52089	.00123*	49.546	.50205	.56814	.50576	51.635	.55262	IPA047SC
108	A200-03A	.61460	12.533	3.9165	.00244	47.828	.53763	.52022	.51467	49.015	.51476	A200-03A
109	A200-03T	.10731	7.5433	3.4782	.00176	.72886	.06001	.00666	.04530	.63995	.00118	A200-03T
110	A200-03J	.02065	1.4653	.67165	.00047	.14681	.01209	.00131	.00919	.14053	.00076	A200-03J
111	A200-01T	1.6099	53.625	18.040	.01197	4.5779	.47230	.23710	.73783	3.2188	.00693	A200-01T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	A200-02T	.08381	3.3623	.38403	.00090	.62995	.03847	.00867	.03292	.45944	.00079	A200-02T
113	A133-01T	2.0950	76.479	9.9541	.02928	14.728	.82313	.19294	.75656	8.6247	.00581	A133-01T
114	A133-02T	.82353	55.328	12.938	.01903	9.0549	.68806	.09689	.73224	6.3897	.00239	A133-02T
115	CCV10	2.4519	23.848	2.4223	.53088	55.237	2.3072	2.5402	2.4683	58.505	1.0203	CCV10
116	CCB10	.00072	.00217	.00094	.00043	.02598	.00089*	.00095*	.00033	.09198	.00079	CCB10
117	IPA053SB	.00119	.01078	-.00008	.00001	.01149	.00043	.00044	.00156	.06025	.00088	IPA053SB
118	IPA053SL	.51151	5.2241	.51268	-.00019*	48.517	.48790	.56344	.49470	50.596	.50420	IPA053SL
119	IPA053SC	.51443	5.2096	.51473	.00010*	48.406	.49186	.56520	.49775	50.963	.50616	IPA053SC
120	A251-06A	1.1520	39.766	45.263	.01788	48.455	.65188	.53131	.50894	52.882	.49550	A251-06A
121	A251-06	.65848	36.344	47.145	.01692	2.3304	.18388	.00305	.03286	4.1025	.00155	A251-06
122	A251-06J	.12836	7.2549	9.2489	.00356	.47584	.03629	.00078	.00634	.80906	.00037	A251-06J
123	A251-06M	1.1251	44.465	5.6082	.04227	49.997	.65811	.54939	.56703	54.560	.50125	A251-06M
124	A251-06S	.98707	34.329	4.3507	.03056	50.439	.62827	.55608	.55263	54.104	.50985	A251-06S
125	Blank	.00073	.00300	.00079	-.00016	.02898	.00060	.00080	.00027	.08606	.00056	Blank
126	CCV11	2.4257	23.647	2.3990	.52753	54.608	2.2854	2.5230	2.4465	58.383	.99595	CCV11
127	CCB11	.00039	-.00068	.00015	.00013	.01772	.00034	.00048*	.00003	.07707	.00088	CCB11
128	A251-01	.01668	37.998	.04463	.00985	3.6808	.10395	.00194	.02518	5.2020	.00245	A251-01
129	A251-02	.01907	45.191	.13395	.03057	3.9547	.90961	.00346	.05076	2.8496	.00114	A251-02
130	A251-03	.25860	35.333	3.5533	.01429	3.3391	.91938	.00277	.03595	4.2941	.00172	A251-03
131	A251-04	.05102	24.953	.22317	.01206	2.1775	.42410	.00181	.02353	4.3340	.00205	A251-04
132	A251-05	.09147	29.226	.44660	.01430	2.6479	.41949	.00240	.02712	4.8112	.00209	A251-05
133	A251-07	.00098	.00089	.00014	.00035	.01678	.00038	.00007	.00026	.03218	.00014	A251-07
134	A195-04T	.01482	95.619	.05343	.00679	1.0212	.72144	.0031B	.02304	1.0053	.00283	A195-04T
135	Blank	.00026	.00225	.00042	.00033	.00943	.00028	.00018	.00000	.01962	.00009	Blank
136	CCV12	2.4319	23.676	2.4002	.52637	54.821	2.2921	2.5204	2.4489	58.263	1.0062	CCV12
137	CCB12	.00037	-.00390	.00033	.00002	.01316	.00038	.00044*	.00000	.05913	.00085	CCB12
138	IPA052WB	.00047	-.00523	.00001	.00015	.00792	.00049	.00000	-.00007	.02375	.00007	IPA052WB
139	IPA052WL	.51555	5.1219	.50893	.00058*	46.846	.48167	.52242	.47627	49.519	.52318	IPA052WL
140	IPA052WC	.51785	5.2220	.51657	.00063*	47.116	.48382	.52594	.47940	49.531	.52832	IPA052WC
141	A220-03A	.52046	5.5377	.50534	.03273	57.845	.49671	.51723	.47253	51.534	.53311	A220-03A
142	A220-03	.00095	.41426	.00029	.03180	11.866	.02036	.00320	.00283	2.2791	.00221	A220-03
143	A220-03J	.00053	.08132	.00014	.00611	2.4223	.00430	.00072	.00045	.49051	-.00041	A220-03J
144	A220-03M	.52248	5.5722	.50753	.03424	59.446	.50155	.53143	.47727	52.999	.53411	A220-03M
145	A220-03S	.50678	5.3975	.49190	.03309	58.007	.48823	.51609	.46351	51.861	.52006	A220-03S
146	A220-02	.00107	.00537	.00073	.03018	11.584	.00052	.00317	-.00009	2.2258	.00123	A220-02
147	Blank	.00031	-.00324	.00045	.00036	.00351	.00019	.00018	.00011	.04823	.00021	Blank
148	CCV13	2.4649	23.729	2.4000	.52916	54.666	2.2924	2.5251	2.4496	58.235	1.0198	CCV13
149	CCB13	.00032	-.00444	.00018	-.00004	.01735	.00029	.00057*	-.00001	.10125	-.00071	CCB13

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00008	.00082	-.00007	-.00002	.00009	.00000	-.00010	.00131	Blank
2	S20									S20
3	S21									S21
4	S22							.14420		S22
5	S23							1.4444		S23
6	S24		1.0661							S24
7	S25		6.2235							S25
8	S26									S26
9	S27									S27
10	S28				.00619					S28
11	S29				.05824					S29
12	S30	.04281		.13527		.02509	.01634		.58264	S30
13	S31	.21315		.67179		.12138	.08105		5.6370	S31
14	ICV	.50880	63.058	.49373	2.3640	.49342	.49925	1.4550	2.6275	ICV
15	ICB	.00013	.04616	.00009	.00029	-.00014	.00010	.00018	-.00131	ICB
16	MRLA2803	.01036	1.0522	.01021	.01095	-.00004	.01034	.01009	.02370	MRLA2803
17	MRLA2804	.01026	.52320	.01047	.01116	.01029	.01027	.01018	.00941	MRLA2804
18	ICSA1	.00027	.07405	.02095	.00157	.00186	.00206	.00166	.00114	ICSA1
19	ICSAB1	1.1026	83.061	.52036	.84911	1.0167	.99072	.47833	1.0684	ICSAB1
20	CCV1	.50141	62.196	.48876	2.3371	.52411	.49070	1.4245	2.6669	CCV1
21	CCB1	.00000	.05437	.00001	.00026	.00004	.00033	.00011	-.00169	CCB1
22	10I108	.00008	.03206	.47582	.00049	.49370	.50183	.00008	.00162	10I108
23	10H054	.50565	.01991	.00014	.55997	.00017	.00000	.48974	.53320	10H054
24	10H055	.00007	.01201	.47916	.00021	.49165	.50646	-.00006	.00062	10H055
25	10L107	.51042	.01453	.00013	.56493	.00038	-.00029	.49681	.52498	10L107
26	CCV2	.51057	62.378	.48923	2.3882	.51549	.49564	1.4575	2.6654	CCV2
27	CCB2	.00022	.04890	.00020	.00056	-.00007	.00022	.00049	.00531	CCB2
28	IPA045SB	-.00005	.02825	.00010	-.00097	.03320	.00031	.00018	.00407	IPA045SB
29	IPA045SL	.47957	51.319	.47943	.47018	.53844	.50502	.49375	.54588	IPA045SL
30	IPA045SC	.47964	50.960	.47660	.46353	.53407	.49973	.49070	.54513	IPA045SC
31	MDLV-01	.00213	.15202	.00197	.00500	.01936	.01030	.00475	.00472	MDLV-01
32	MDLV-02	-.00005	.04902	.00005	-.00115	.03800	.00017	.00023	.00018	MDLV-02
33	MDLV-03	-.00004	.04324	-.00002	-.00050	.03954	.00027	.00021	.00021	MDLV-03
34	MRLA2805	.00997	1.0285	.01006	.01141	.00000	.01015	.00954	.02306	MRLA2805
35	MRLA2806	.01009	.51507	.01020	.01138	.01036	.01008	.00976	.00934	MRLA2806
36	CCV3	.50193	62.052	.48708	2.3342	.52032	.48991	1.4135	2.6631	CCV3
37	CCB3	.00025	.04578	.00019	.00049	.00033	.00052	.00025	.00254	CCB3
38	IPA039WQ	.00009	.02283	.00006	.00020	-.00006	.00026	-.00003	.00193	IPA039WQ
39	IPA039WX	.52102	53.056	.49764	.51441	.51586	.52521	.51056	.55049	IPA039WX
40	IPA039WY	.52654	52.375	.50262	.52372	.52243	.53130	.51764	.56071	IPA039WY
41	A135-02A	.54465	213.95	2.3161	.47784	.50602	.51601	.51575	.56059	A135-02A
42	A135-02W	.00004	165.37	1.8889	-.00119	-.00025	.00815	.00032	.00863	A135-02W
43	A135-02J	.00129	32.361	.37307	-.00032	.00047	.00224	.00003	.00221	A135-02J
44	A135-03W	-.00006	171.55	1.7288	-.00117	.00015	.03430	.00100	.00653	A135-03W
45	A135-04W	-.00015	168.76	1.7375	-.00119	.00075	.01749	.00039	.00610	A135-04W
46	A135-05W	-.00012	157.88	1.6410	-.00093	.00039	.00681	.00038	.00685	A135-05W
47	Blank	.00011	.14204	.00041	.00060	.00017	-.00001	.00031	.00333	Blank
48	CCV4	.50037	62.070	.48631	2.3051	.52457	.48674	1.4028	2.6412	CCV4
49	CCB4	.00013	.08513*	.00024	.00102*	.00007	.00081	00026	.00280	CCB4
50	IPA044SB	.00000	.06485	.00003	-.00058	.03246	.00038	.00003	.00166	IPA044SB
51	IPA044SL	.49741	53.105	.49256	.48041	.54770	.51460	.50865	.55740	IPA044SL
52	IPA044SC	.49803	53.385	.49861	.47895	.54906	.52099	.50707	.55619	IPA044SC
53	A169-03A	.49854	61.288	.70854	.44038	.54453	3.4236	1.7928	1.4393	A169-03A
54	A169-03	-.00369	8.2934	.23048	-.00492	.04864	2.9646	1.3213	.90022	A169-03

55	A169-03J	-.00075	1.6128	.04568	-.00006	.00965	.59813	.26407	.17334	A169-03J
56	A169-03M	.51157	63.176	.72746	.43739	.56385	3.9604	2.6834	1.5180	A169-03M
57	A169-03S	.49442	61.407	.69570	.42414	.54998	3.8246	2.7187	1.3800	A169-03S
58	Blank	.00035	.03570	.00023	.00077	.00020	.00151	.00047	.00361	Blank
59	CCV5	.50034	61.838	.48417	2.3056	.51690	.48470	1.4063	2.6148	CCV5
60	CCB5	.00013	.02539	.00005	.00077	.00002	.00045	.00007	.00139	CCB5
61	A169-03A	.50450	54.895	.53145	.48662	.51291	1.1087	.77615	.73539	A169-03A
62	A169-03T	-.00078	1.6490	.04625	.00032	.00951	.60149	.26929	.17397	A169-03T
63	A169-03J	-.00021	.32008	.00936	.00012	.00175	.12069	.05422	.03302	A169-03J
64	A169-03G	.09990	12.251	.14628	.10185	.11169	.81159	.55429	.29718	A169-03G
65	A169-03H	.09767	11.983	.14063	.09901	.10974	.78323	.56603	.27109	A169-03H
66	A169-01	-.00021	6.2522	.21813	.00045	.03989	2.4365	.21571	.19973	A169-01
67	A169-02	-.00030	7.2906	.37725	-.00064	.04441	1.7337	.15364	.32961	A169-02
68	A135-06W	.00010	403.96	3.5550	-.00120	-.00023	.00479	.00051	.00753	A135-06W
69	A135-07W	-.00009	159.89	1.6006	-.00091	.00025	.05319	.00206	.00452	A135-07W
70	Blank	.00018	.10642	.00041	.00046	.00009	.00062	.00036	.00344	Blank
71	CCV6	.49418	61.457	.47974	2.2760	.52369	.48256	1.3842	2.6100	CCV6
72	CCB6	.00044	.08382*	.00060*	.00107*	.00037	.00056	.00069*	.03932*	CCB6
73	IPA048SB	-.00019	.04873	.00008	-.00103	.03416	.00023	.00002	.00097	IPA048SB
74	IPA048SL	.50324	54.349	.50284	.47878	.57665	.52758	.50355	.57541	IPA048SL
75	IPA048SC	.50697	54.970	.50773	.47861	.58439	.53128	.50794	.57968	IPA048SC
76	A219-11A	.48015	52.438	.58973	.43996	.55209	1.4702	.86409	2.2040	A219-11A
77	A219-11	-.00038	.56657	.11870	-.00073	.04206	1.0081	.40956	1.7075	A219-11
78	A219-11J	-.00009	.12175	.02389	.00012	.00865	.20425	.08425	.33314	A219-11J
79	A219-11M	.52947	55.956	.65767	.46804	.56031	1.8964	.96787	3.9310	A219-11M
80	A219-11S	.52724	55.517	.66322	.46466	.55434	1.9353	.98129	2.0029	A219-11S
81	A219-01	-.00017	.24896	.09241	-.00156	.03942	1.0286	.32567	.41253	A219-01
82	Blank	.00030	.04088	.00052	.00087	.00075	.00076	.00065	.03120	Blank
83	CCV7	.51134	62.406	.49007	2.3950	.51671	.49529	1.4622	2.6370	CCV7
84	CCB7	.00019	.04632	.00026	.00058	.00037	.00047	.00043	.00354	CCB7
85	A219-02	-.00018	.25053	.09492	.00018	.04135	1.0888	.39017	.40872	A219-02
86	A219-03	-.00003	.24805	.07205	.00007	.04114	1.0408	.36460	8.5834	A219-03
87	A219-04	-.00012	.20512	.06188	.00062	.04073	.97858	.36848	.72908	A219-04
88	A219-05	-.00001	.26564	.09217	.00066	.04250	.97227	.40008	2.2268	A219-05
89	A219-06	-.00018	.24434	.06760	.00052	.04152	.86259	.38300	1.9789	A219-06
90	A219-07	-.00032	.25620	.07795	-.00011	.04167	.85485	.31016	1.4263	A219-07
91	A219-08	-.00024	.26491	.10440	-.00087	.04120	.87053	.37375	.44989	A219-08
92	A219-09	-.00022	.28008	.11197	.00004	.03944	.91372	.38440	.33401	A219-09
93	A219-10	-.00031	.35396	.09869	-.00089	.03930	.79883	.26900	1.9031	A219-10
94	Blank	.00013	.00699	.00020	.00069	.00011	.00079	.00031	.00360	Blank
95	CCV8	.49724	61.773	.48359	2.3050	.52765	.48833	1.3958	2.6380	CCV8
96	CCB8	.00016	.03188	.00024	.00040	.00004	-.00008	.00031	.00278	CCB8
97	A187-01	.14268	1365.9*	5.0145	-.07083*	2.8218	.73354	.43721	75.216*	A187-01
98	A209-03	-.00027	.57983	.10625	-.00123	.10038	.68667	.26073	12.863	A209-03
99	A209-04	.00002	.96245	.14989	.00170	.04587	1.2496	.43873	1.8517	A209-04
100	A209-07	-.00002	.50660	.12241	.00143	.04673	.98140	.37088	20.310	A209-07
101	A209-09	.00001	.20724	.06595	.00083	.04292	1.2276	.39368	.73898	A209-09
102	Blank	.00017	.01192	.00019	.00030	.00015	.00061	.00034	.00357	Blank
103	CCV9	.49753	61.604	.48426	2.3140	.52766	.48776	1.3998	2.6406	CCV9
104	CCB9	.00016	.03247	.00021	.00075	-.00017	.00039	.00019	.00258	CCB9
105	IPA047SB	.00000	4.1775*	.00631*	-.00439	.03789	.11491	.00017	.05477*	IPA047SB
106	IPA047SL	.50595	58.684	.51035	.47642	.57545	.62486*	.51779	.65038*	IPA047SL
107	IPA047SC	.50462	59.826	.51454	.47294	.57798	.61767*	.51454	.61872*	IPA047SC
108	A200-03A	.48529	53.503	.49659	.47939	.52602	.69487	.48987	3.4676	A200-03A
109	A200-03T	.00139	2.1889	.03184	.00024	.01459	.19148	.00551	2.8150	A200-03T
110	A200-03J	.00027	.48972	.00622	.00090	.00305	.03549	.00108	.53957	A200-03J
111	A200-01T	.01671	7.5966	.69569	.00064	.12663	.88185	.07398	21.603	A200-01T

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
112	A200-02T	.00234	1.0788	.04594	.00032	.00981	.11503	.00527	.68839	A200-02T
113	A133-01T	.02593	7.4617	.46899	.00039	.15120	1.6188	.11460	11.076	A133-01T
114	A133-02T	.00392	18.758	.20590	.00016	.09898	1.0323	.07073	18.117	A133-02T
115	CCV10	.50058	61.886	.48508	2.2941	.52707	.48747	1.3988	2.6294	CCV10
116	CCB10	.00012	.03519	.00027	.00062	.00053	.00031	.00030	.00370	CCB10
117	IPA053SB	.00003	.02868	.00008	-.00137	.03800	.00053	.00009	.00428	IPA053SB
118	IPA053SL	.49892	53.692	.49781	.47431	.57560	.52506	.49943	.56857	IPA053SL
119	IPA053SC	.50132	53.919	.50306	.47617	.57617	.52450	.50192	.57001	IPA053SC
120	A251-06A	.47864	52.166	.53787	.45053	.55212	2.1088	.56990	.63020	A251-06A
121	A251-06	.00109	.67097	.06849	-.00118	.04700	1.6644	.09254	.08655	A251-06
122	A251-06J	.00025	.13162	.01334	.00053	.00890	.32213	.01788	.01615	A251-06J
123	A251-06M	.50373	54.130	.56811	.45712	.56241	2.4584	.59103	.64344	A251-06M
124	A251-06S	.50635	54.570	.56123	.46587	.57058	2.0206	.57212	.62903	A251-06S
125	Blank	.00017	.03341	.00027	.00073	.00015	.00099	.00033	.00333	Blank
126	CCV11	.49404	61.596	.48275	2.2463*	.52075	.48207	1.3865	2.6013	CCV11
127	CCB11	.00017	.02808	.00012	.00061	-.00003	.00031	.00011	.00142	CCB11
128	A251-01	-.00001	.62698	.03572	-.00023	.03459	1.3192	.07744	.03919	A251-01
129	A251-02	.00005	.93742	.12796	-.00112	.03706	2.2134	.11728	.03661	A251-02
130	A251-03	.00004	.58261	.13663	-.00090	.03691	1.1584	.08943	.11922	A251-03
131	A251-04	-.00011	.46824	.06699	-.00073	.03441	1.0594	.07247	.05544	A251-04
132	A251-05	-.00008	.53583	.08552	-.00046	.03644	1.1125	.08268	.10491	A251-05
133	A251-07	.00003	.02694	.00001	.00008	-.00005	.00071	.00003	.01226	A251-07
134	A195-04T	.00005	.10629	.01248	.00122	.00882	.22738	.10877	.10312	A195-04T
135	Blank	.00006	-.00320	.00006	.00058	.00013	.00039	.00010	-.00038	Blank
136	CCV12	.49776	61.509	.48293	2.2698	.52009	.48214	1.3947	2.6105	CCV12
137	CCB12	.00009	.01611	.00010	.00003	.00014	.00020	.00008	.00149	CCB12
138	IPA052WB	-.00006	.00911	.00003	.00014	.00004	.00038	-.00002	.00035	IPA052WB
139	IPA052WL	.51666	52.565	.49461	.49457	.51973	.51125	.49291	.54424	IPA052WL
140	IPA052WC	.51714	52.752	.49475	.49983	.52510	.51419	.49349	.55328	IPA052WC
141	A220-03A	.50334	93.616	1.2563	.48283	.51055	.49796	.49290	.56071	A220-03A
142	A220-03	-.00003	42.856	.81539	-.00060	.00015	.00140	.00383	.01881	A220-03
143	A220-03J	.00011	8.4755	.16496	.00026	.00037	.00060	.00089	.00328	A220-03J
144	A220-03M	.52380	96.997	1.3178	.48100	.52564	.51360	.49815	.56621	A220-03M
145	A220-03S	.50990	94.395	1.2801	.46917	.51186	.50153	.48460	.54747	A220-03S
146	A220-02	.00010	41.516	.79493	.00035	.00104	.00148	.00560	.03944	A220-02
147	Blank	.00018	.02977	.00018	.00027	.00010	.00028	.00017	-.00058	Blank
148	CCV13	.50007	61.506	.48329	2.2909	.51962	.48461	1.4042	2.6000	CCV13
149	CCB13	.00015	.03578	.00010	-.00022	.00037	.00028	.00013	.00148	CCB13

I08A028 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments: DIGESTOR D

Book #: EIP-098
Batch: IPA043S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

1/25/11 Start	Temp	1/25/11 End	Temp
12:00	90 °c	14:00	90 °c

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-02-11	0.5
LCS-2	12	0.5
LCS-3	13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10
Digestate Location	ICP	
Extract Location		

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 10983555

Prepared By: LK/NT
Standard Added By: LK/NT Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA043S01	IPA043SB	1	g	1/25/11 10:51	100	1	100	1	
11IPA043S02	IPA043SL	1	g	1/25/11 10:51	100	1	100	1	
11IPA043S03	IPA043SC	1	g	1/25/11 10:51	100	1	100	1	
11IPA043S04	A195-01	1.043	g	1/25/11 11:18	100	1	100	0.959	
11IPA043S05	A195-02	1.04	g	1/25/11 11:20	100	1	100	0.962	
11IPA043S06	A195-03	1.017	g	1/25/11 11:22	100	1	100	0.983	
11IPA043S07	A195-04	1.049	g	1/25/11 11:24	100	1	100	0.953	
11IPA043S08	A195-05	1.035	g	1/25/11 11:25	100	1	100	0.966	
11IPA043S09	A195-06	1.036	g	1/25/11 11:27	100	1	100	0.965	
11IPA043S10	A195-07	1.042	g	1/25/11 11:29	100	1	100	0.96	
11IPA043S11	A195-08	1.007	g	1/25/11 11:30	100	1	100	0.993	
11IPA043S12	A195-09	1.083	g	1/25/11 11:32	100	1	100	0.923	
11IPA043S13	A195-10	1.013	g	1/25/11 11:33	100	1	100	0.987	
11IPA043S14	A195-11	1.029	g	1/25/11 11:35	100	1	100	0.972	
11IPA043S15	A195-11M	1.025	g	1/25/11 11:36	100	1	100	0.976	
11IPA043S16	A195-11S	1.027	g	1/25/11 11:37	100	1	100	0.974	
11IPA043S17	A193-06R	1.009	g	1/25/11 11:38	100	1	100	0.991	DRIED AND SIEVED
11IPA043S18	A193-06U	1.012	g	1/25/11 11:39	100	1	100	0.988	DRIED AND SIEVED
11IPA043S19	A193-06V	1.008	g	1/25/11 11:40	100	1	100	0.992	DRIED AND SIEVED

Balance ID: 10601202. Calibration check was verified prior to use.

Vd=digestate volume

AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/25/11 12:00

Prepared By: LK/NT

☑ Digestion Ended @ 1/25/11 16:00

Checked By: NT

Comments:

Date 1/25/2011

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A195

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of three (3) soil samples were received on 01/22/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA044SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Samples were oven-dried and passed through sieve # 60 prior to sample preparation.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A195
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA044SB	1	NA	01/26/1119:17	01/26/1111:15	ID8A023058	ID8A023056	IPA044S	Method Blank
LCS1S	IPA044SL	1	NA	01/26/1119:20	01/26/1111:15	ID8A023059	ID8A023056	IPA044S	Lab Control Sample (LCS)
LCD1S	IPA044SC	1	NA	01/26/1119:23	01/26/1111:15	ID8A023060	ID8A023056	IPA044S	LCS Duplicate
CP093-S4-02-01	A195-03	0.992	NA	01/26/1119:28	01/26/1111:15	ID8A023062	ID8A023056	IPA044S	Field Sample
CP093-S4-02-01DL	A195-03J	4.96	NA	01/26/1119:31	01/26/1111:15	ID8A023063	ID8A023056	IPA044S	Diluted Sample
CP093-S4-03-01	A195-05	0.944	NA	01/26/1119:33	01/26/1111:15	ID8A023064	ID8A023056	IPA044S	Field Sample
CP093-S4-05-01	A195-10	0.931	NA	01/26/1119:36	01/26/1111:15	ID8A023065	ID8A023056	IPA044S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 10:35
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S4-02-01	Date Analyzed:	01/26/11 19:28
Lab Samp ID:	A195-03	Dilution Factor:	0.992
Lab File ID:	ID8A023062	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	NA
Calib. Ref.:	ID8A023056	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	106	0.992	0.198

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 11:30
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S4-03-01	Date Analyzed:	01/26/11 19:33
Lab Samp ID:	A195-05	Dilution Factor:	0.944
Lab File ID:	ID8A023064	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	NA
Calib. Ref.:	ID8A023056	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	27.4	0.944	0.189

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/19/11 14:40
Project	: TAR CREEK OU4	Date Received:	01/22/11
SDG NO.	: 11A195	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S4-05-01	Date Analyzed:	01/26/11 19:36
Lab Samp ID:	A195-10	Dilution Factor:	0.931
Lab File ID:	ID8A023065	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	NA
Calib. Ref.:	ID8A023056	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	24.6	0.931	0.186

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A195	Date Extracted:	01/26/11 11:15
Sample ID:	MBLK1S	Date Analyzed:	01/26/11 19:17
Lab Samp ID:	1PA044SB	Dilution Factor:	1
Lab File ID:	1D8A023058	Matrix :	SOIL
Ext Btch ID:	1PA044S	% Moisture :	NA
Calib. Ref.:	1D8A023056	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A195
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA044SB	IPA044SL	IPA044SC		
LAB FILE ID:	ID8A023058	ID8A023059	ID8A023060		
DATIME EXTRCTD:	01/26/1111:15	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	NA
DATIME ANALYZD:	01/26/1119:17	01/26/1119:20	01/26/1119:23	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA044S	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	50	100	50	49.8	100	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A195
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.992	4.96		
SAMPLE ID:	CP093-S4-02-01	CP093-S4-02-01DL		
EMAX SAMP ID:	A195-03	A195-03J		
LAB FILE ID:	ID8A023062	ID8A023063		
DATE EXTRACTED:	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	01/19/11 10:35
DATE ANALYZED:	01/26/1119:28	01/26/1119:31	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	106	107	1	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/26/11 16:37
End Date: 1/26/11 21:34

SOP #	Rev. #
☐ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments:
QC's OK

Book #: AD8-017
Instrument No.: D8
Analytical Batch: D8AD23
Analytical Sequence: S11A6010(V32)
Method File: 11A6010(V32)
Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-31-01	S30	SM1B140203
S1	NA	S31	0204
S2	↓	ICV	2701
S3	↓	CCV	3001
S4	↓	ICSA	2002
S5	↓	ICSAB	1803
S6	↓	MLCV	NA
S7	↓	LLCV	↓
S8	↓	CRI/MRL	↓
S9	↓	MRL3	SM1B14-1201
S10	↓	SMRL4	↓ 1901
S11	↓	TH	
S12	↓	1/27/11	
S16	↓		
S17	↓		
S18	↓		
S20	SM1B12-100-05		
S21	SM1B14-01-01		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Analyzed By: TH
Date: 1/27/11

SEQUENCE FILE : ID8A023

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A023001	Blank	16:37	01/26/11	1.000
ID8A023002	S20	16:40	01/26/11	1.000
ID8A023003	S21	16:42	01/26/11	1.000
ID8A023004	S22	16:45	01/26/11	1.000
ID8A023005	S23	16:48	01/26/11	1.000
ID8A023006	S24	16:51	01/26/11	1.000
ID8A023007	S25	16:54	01/26/11	1.000
ID8A023008	S26	16:57	01/26/11	1.000
ID8A023009	S27	17:00	01/26/11	1.000
ID8A023010	S28	17:03	01/26/11	1.000
ID8A023011	S29	17:06	01/26/11	1.000
ID8A023012	S30	17:09	01/26/11	1.000
ID8A023013	S31	17:12	01/26/11	1.000
ID8A023014	ICV	17:14	01/26/11	1.000
ID8A023015	ICB	17:17	01/26/11	1.000
ID8A023016	MRLA2603	17:20	01/26/11	1.000
ID8A023017	MRLA2604	17:23	01/26/11	1.000
ID8A023018	ICSA1	17:25	01/26/11	1.000
ID8A023019	ICSAB1	17:28	01/26/11	1.000
ID8A023020	CCV1	17:31	01/26/11	1.000
ID8A023021	CCB1	17:34	01/26/11	1.000
ID8A023022	IPA045SB	17:37	01/26/11	1.000
ID8A023023	IPA045SL	17:39	01/26/11	1.000
ID8A023024	IPA045SC	17:42	01/26/11	1.000
ID8A023025	MDLV-01	17:45	01/26/11	1.000
ID8A023026	MDLV-02	17:47	01/26/11	1.000
ID8A023027	MDLV-03	17:50	01/26/11	1.000
ID8A023028	Blank	17:53	01/26/11	1.000
ID8A023029	CCV2	17:56	01/26/11	1.000
ID8A023030	CCB2	17:59	01/26/11	1.000
ID8A023031	IPA033W8	18:01	01/26/11	1.000
ID8A023032	IPA033WL	18:04	01/26/11	1.000
ID8A023033	IPA033WC	18:07	01/26/11	1.000
ID8A023034	MDLV-01	18:09	01/26/11	1.000
ID8A023035	MDLV-02	18:12	01/26/11	1.000
ID8A023036	BLK	18:16	01/26/11	1.000
ID8A023037	LCS	18:19	01/26/11	1.000
ID8A023038	Blank	18:22	01/26/11	1.000
ID8A023039	Blank	18:25	01/26/11	1.000
ID8A023040	CCV3	18:27	01/26/11	1.000
ID8A023041	CCB3	18:30	01/26/11	1.000
ID8A023042	A140-01A	18:33	01/26/11	1.000
ID8A023043	A140-01W	18:36	01/26/11	1.000
ID8A023044	A140-01J	18:39	01/26/11	5.000
ID8A023045	A140-01G	18:41	01/26/11	1.000
ID8A023046	A140-01H	18:44	01/26/11	1.000
ID8A023047	Blank	18:47	01/26/11	1.000
ID8A023048	CCV4	18:50	01/26/11	1.000
ID8A023049	CCB4	18:52	01/26/11	1.000
ID8A023050	A140-01A	18:55	01/26/11	5.000
ID8A023051	A140-01T	18:58	01/26/11	5.000
ID8A023052	A140-01J	19:01	01/26/11	25.00
ID8A023053	A140-01G	19:04	01/26/11	5.000
ID8A023054	A140-01H	19:06	01/26/11	5.000

ID8A023055	Blank	19:09	01/26/11	1.000
ID8A023056	CCV5	19:12	01/26/11	1.000
ID8A023057	CCB5	19:15	01/26/11	1.000
ID8A023058	IPA044SB	19:17	01/26/11	1.000
ID8A023059	IPA044SL	19:20	01/26/11	1.000
ID8A023060	IPA044SC	19:23	01/26/11	1.000
ID8A023061	A195-03A	19:25	01/26/11	1.000
ID8A023062	A195-03	19:28	01/26/11	1.000
ID8A023063	A195-03J	19:31	01/26/11	5.000
ID8A023064	A195-05	19:33	01/26/11	1.000
ID8A023065	A195-10	19:36	01/26/11	1.000
ID8A023066	Blank	19:39	01/26/11	1.000
ID8A023067	CCV6	19:42	01/26/11	1.000
ID8A023068	CCB6	19:44	01/26/11	1.000
ID8A023069	A209-01	19:47	01/26/11	1.000
ID8A023070	A209-02	19:50	01/26/11	1.000
ID8A023071	A209-03	19:53	01/26/11	1.000
ID8A023072	A209-04	19:55	01/26/11	1.000
ID8A023073	A209-05	19:58	01/26/11	1.000
ID8A023074	A209-06	20:01	01/26/11	1.000
ID8A023075	A209-07	20:04	01/26/11	1.000
ID8A023076	A209-08	20:07	01/26/11	1.000
ID8A023077	A209-09	20:10	01/26/11	1.000
ID8A023078	Blank	20:12	01/26/11	1.000
ID8A023079	CCV7	20:15	01/26/11	1.000
ID8A023080	CCB7	20:18	01/26/11	1.000
ID8A023081	A209-10	20:21	01/26/11	1.000
ID8A023082	A209-11	20:24	01/26/11	1.000
ID8A023083	A209-12	20:26	01/26/11	1.000
ID8A023084	A209-13	20:29	01/26/11	1.000
ID8A023085	A209-14	20:32	01/26/11	1.000
ID8A023086	Blank	20:35	01/26/11	1.000
ID8A023087	CCV8	20:38	01/26/11	1.000
ID8A023088	CCB8	20:40	01/26/11	1.000
ID8A023089	IPA035WB	20:43	01/26/11	1.000
ID8A023090	IPA035WL	20:46	01/26/11	1.000
ID8A023091	IPA035WC	20:49	01/26/11	1.000
ID8A023092	A498-01A	20:51	01/26/11	5.000
ID8A023093	A498-01T	20:54	01/26/11	5.000
ID8A023094	A498-01J	20:57	01/26/11	25.00
ID8A023095	A499-01T	21:00	01/26/11	5.000
ID8A023096	Blank	21:03	01/26/11	1.000
ID8A023097	ICSA2	21:05	01/26/11	1.000
ID8A023098	ICSAB2	21:08	01/26/11	1.000
ID8A023099	CCV10	21:11	01/26/11	1.000
ID8A023100	CCB10	21:14	01/26/11	1.000
ID8A023101	BLANK1	21:17	01/26/11	1.000
ID8A023102	BLANK2	21:20	01/26/11	1.000
ID8A023103	BLANK3	21:22	01/26/11	1.000
ID8A023104	BLANK4	21:25	01/26/11	1.000
ID8A023105	BLANK5	21:28	01/26/11	1.000
ID8A023106	BLANK6	21:31	01/26/11	1.000
ID8A023107	BLANK7	21:34	01/26/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A023 DATE : 01/26/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	98	103	99	99	98	100	100	97	92	100	98	95	106	93	92	99	98	96	101	101	103	98	92	98	98	98	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2603	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2604	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	96	----	----	----	93	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	104	106	108	98	101	97	93	96	94	107	92	93	115	96	92	103	98	103	105	111	109	103	84	99	98	98	106
CCV1	103	101	102	99	97	97	99	96	97	94	100	97	95	106	92	93	100	98	95	102	101	102	97	93	101	96	98	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	103	101	102	99	98	97	99	98	98	93	99	98	95	106	94	94	100	98	96	102	101	103	97	93	102	97	98	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LCS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	103	102	104	100	98	98	101	99	98	93	100	98	95	107	94	94	100	98	96	103	102	103	97	94	102	98	98	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	105	102	102	100	98	98	97	98	96	94	101	96	95	109	92	93	101	98	97	101	102	104	99	92	103	97	97	104
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	102	102	100	97	97	96	96	95	94	101	95	96	108	91	92	101	99	96	102	101	103	98	91	103	97	96	104
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	105	104	104	101	98	98	99	97	97	95	103	97	96	109	92	93	102	100	97	104	103	104	99	93	103	98	98	105
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	105	105	103	103	100	99	98	101	97	94	102	98	96	111*	95	95	102	99	99	103	103	106	100	93	106	100	97	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	105	103	104	101	98	98	99	98	97	94	101	98	95	108	93	93	101	98	96	103	102	103	98	93	103	98	98	105
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A499-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	102	----	----	----	----	----	----	99	----	----	----	96	----	----	99	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	101	108	107	110	99	104	94	97	94	92	109	94	93	117	96	92	103	97	106	106	112	112	105	83	103	100	96	104
CCV10	107	107	104	102	100	100	98	101	97	93	102	100	96	110	94	94	102	98	99	104	103	106	100	94	106	100	97	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A023 (SOIL) DATE : 01/26/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	10.5	2.26	1.45	.250	.130	3.72	-.010	10.5	.360	-.070	.070	-3.37	.760	.280	14.1	.340	.440	-.160	74.7	-.960	.200	33.0	.080	.060	.080	.200	.170	3.74
MRLA2603	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2604	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.40	-.230	1.27	-.030	8.98	-4.50	----	1.94	-.750	.930	----	-1.58	6.22	----	1.19	-2.00	-.980	73.7	.300	.340	74.0	20.8	1.85	2.30	1.13	1.92	2.09
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	19.1	1.96	-.310	.380	.220	3.16	.120	20.3	.460	.090	.210	-.010	.520	.880	10.4	.480	.470	.060	112	-.350	.060	55.0	.080	.190	.440	.190	.250	.020
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	10.6	1.70	.660	.340	.180	3.09	.090	6.84	.240	-.050	.140	-1.88	.300	.550	6.60	.340	.460	-.120	47.4	.250	.080	29.2	.010	.520	.310	.170	.220	-.450
IPA033WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LCS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	13.1	1.69	.490	.280	.190	2.31	.100	4.83	.290	.040	.090	-.360	.380	-.140	11.8	.310	.530	-.070	57.8	-.650	.050	25.8	.010	.200	.190	-.220	.230	-.570
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	15.8	2.09	.740	.320	.180	2.94	.050	5.96	.470	.070	.450	.570	.480	.270	6.63	.310	.570	-.150	290	-.440	.120	217	.050	.630	.290	-.330	.190	-.530
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	13.2	2.38	.480	.270	.170	3.12	.090	4.25	.270	-.010	.420	-1.05	.250	.430	9.67	.370	.430	-.040	176	.060	.070	141	.040	.360	.510	-.020	.190	-.660
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	12.0	1.07	.190	.180	.120	2.24	.020	3.15	.350	-.040	.060	-1.14	.520	.460	4.88	.380	.500	-.200	81.5	-1.70	.100	50.8	.030	.130	.540	.280	.150	-.890
A209-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	10.2	2.15	.950	.270	.140	2.45	.000	7.73	.230	.110	.190	2.88	.880	.330	9.40	.410	.430	-.080	58.5	-.430	.100	26.8	.030	.050	.560	-.070	.100	-.670
A209-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	13.9	1.65	.810	.320	.190	2.17	.040	4.40	.370	.030	.380	1.72	.580	.780	11.7	.330	.450	.010	43.2	.270	.100	18.8	.020	-.130	-.030	.010	.150	-.450
IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A499-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	7.59	1.57	4.31	-.070	14.4	-3.97	----	1.87	-.610	1.26	----	-1.35	7.38	----	1.21	-2.03	-1.02	295	2.32	.610	547	20.0	2.07	2.91	2.39	1.45	1.95
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	15.1	2.61	.070	.210	.170	2.83	.030	10.3	.290	.100	.540	3.16	.260	.650	12.8	.570	.480	-.190	193	-1.12	.120	260	.060	.140	.150	.050	.100	-.520
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A023001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8A023002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8A023003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8A023004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8A023005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8A023006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8A023007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8A023008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8A023009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8A023010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8A023011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8A023012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8A023013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8A023014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A023015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLA2603		ID8A023016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2604		ID8A023017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A023018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A023019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A023020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A023021			1	☒	3XIDL	None
22	20	2	8	2	QC	IPA045SB		ID8A023022			1	☒	1/2LOQ	None
23	21	2	9	2	QC	IPA045SL		ID8A023023			1	☒	LCS	None
24	22	2	10	2	QC	IPA045SC		ID8A023024			1	☒	LCS	None
25	23	2	11	2	Unk	MDLV-01	3050	ID8A023025			1	☒	unk	---
26	24	2	12	2	Unk	MDLV-02	3050	ID8A023026			1	☒	unk	---
27	25	2	1	3	Unk	MDLV-03	3050	ID8A023027			1	☒	unk	---
28	26	2	2	3	Blank	Blank		ID8A023028			1	☐		---
29	27	2	3	3	QC	CCV2		ID8A023029			1	☒	CCV	None
30	28	2	4	3	QC	CCB2		ID8A023030			1	☒	3XIDL	None
31	29	2	5	3	QC	IPA033WB		ID8A023031			1	☒	1/2LOQ	None
32	30	2	6	3	QC	IPA033WL		ID8A023032			1	☒	LCS	None
33	31	2	7	3	QC	IPA033WC		ID8A023033			1	☒	LCS	None
34	32	2	8	3	Unk	MDLV-01	3010	ID8A023034			1	☒	unk	---
35	33	2	9	3	Unk	MDLV-02	3010	ID8A023035			1	☒	unk	---
36	80	3	8	2	Unk	BLK	WIPE	ID8A023036			1	☒	unk	---
37	81	3	9	2	Unk	LCS	WIPE	ID8A023037			1	☒	unk	---
38	82	3	10	2	Blank	Blank		ID8A023038			1	☐		---
39	34	2	10	3	Blank	Blank		ID8A023039			1	☐		---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	35	2	11	3	QC	CCV3		ID8A023040			1	☒	CCV	None
41	36	2	12	3	QC	CCB3		ID8A023041			1	☒	3XIDL	None
42	9	2	9	1	Unk	A140-01A	TCLP	ID8A023042			1	☒	unk	---
43	10	2	10	1	Unk	A140-01W	TCLP	ID8A023043			1	☒	unk	---
44	11	2	11	1	Unk	A140-01J	TCLP	ID8A023044			1	☒	unk	---
45	37	2	1	4	Unk	A140-01G	TCLP	ID8A023045			1	☒	unk	---
46	38	2	2	4	Unk	A140-01H	TCLP	ID8A023046			1	☒	unk	---
47	39	2	3	4	Blank	Blank		ID8A023047			1	☐		---
48	40	2	4	4	QC	CCV4		ID8A023048			1	☒	CCV	None
49	41	2	5	4	QC	CCB4		ID8A023049			1	☒	3XIDL	None
50	12	2	12	1	Unk	A140-01A	5X TCLP	ID8A023050			1	☒	unk	---
51	13	2	1	2	Unk	A140-01T	5X TCLP	ID8A023051			1	☒	unk	---
52	14	2	2	2	Unk	A140-01J	25X TCLP	ID8A023052			1	☒	unk	---
53	15	2	3	2	Unk	A140-01G	5X TCLP	ID8A023053			1	☒	unk	---
54	16	2	4	2	Unk	A140-01H	5X TCLP	ID8A023054			1	☒	unk	---
55	17	2	5	2	Blank	Blank		ID8A023055			1	☐		---
56	18	2	6	2	QC	CCV5		ID8A023056			1	☒	CCV	None
57	19	2	7	2	QC	CCB5		ID8A023057			1	☒	3XIDL	None
58	49	2	1	5	QC	IPA044SB		ID8A023058			1	☒	1/2LOQ	None
59	50	2	2	5	QC	IPA044SL		ID8A023059			1	☒	LCS	None
60	51	2	3	5	QC	IPA044SC		ID8A023060			1	☒	LCS	None
61	52	2	4	5	Unk	A195-03A	dried & sieved	ID8A023061			1	☒	unk	---
62	53	2	5	5	Unk	A195-03	dried & sieved	ID8A023062			1	☒	unk	---
63	54	2	6	5	Unk	A195-03J	dried & sieved	ID8A023063			1	☒	unk	---
64	55	2	7	5	Unk	A195-05	dried & sieved	ID8A023064			1	☒	unk	---
65	56	2	8	5	Unk	A195-10	dried & sieved	ID8A023065			1	☒	unk	---
66	57	2	9	5	Blank	Blank		ID8A023066			1	☐		---
67	58	2	10	5	QC	CCV6		ID8A023067			1	☒	CCV	None
68	59	2	11	5	QC	CCB6		ID8A023068			1	☒	3XIDL	None
69	60	2	12	5	Unk	A209-01		ID8A023069			1	☒	unk	---
70	61	3	1	1	Unk	A209-02		ID8A023070			1	☒	unk	---
71	62	3	2	1	Unk	A209-03		ID8A023071			1	☒	unk	---
72	63	3	3	1	Unk	A209-04		ID8A023072			1	☒	unk	---
73	64	3	4	1	Unk	A209-05		ID8A023073			1	☒	unk	---
74	65	3	5	1	Unk	A209-06		ID8A023074			1	☒	unk	---
75	66	3	6	1	Unk	A209-07		ID8A023075			1	☒	unk	---
76	67	3	7	1	Unk	A209-08		ID8A023076			1	☒	unk	---
77	68	3	8	1	Unk	A209-09		ID8A023077			1	☒	unk	---
78	69	3	9	1	Blank	Blank		ID8A023078			1	☐		---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	70	3	10	1	QC	CCV7		ID8A023079			1	☒	CCV	None
80	71	3	11	1	QC	CCB7		ID8A023080			1	☒	3XIDL	None
81	72	3	12	1	Unk	A209-10		ID8A023081			1	☒	unk	---
82	73	3	1	2	Unk	A209-11		ID8A023082			1	☒	unk	—
83	74	3	2	2	Unk	A209-12		ID8A023083			1	☒	unk	—
84	75	3	3	2	Unk	A209-13		ID8A023084			1	☒	unk	—
85	76	3	4	2	Unk	A209-14		ID8A023085			1	☒	unk	—
86	77	3	5	2	Blank	Blank		ID8A023086			1	☐		—
87	78	3	6	2	QC	CCV8		ID8A023087			1	☒	CCV	None
88	79	3	7	2	QC	CCB8		ID8A023088			1	☒	3XIDL	None
89	85	3	1	3	QC	IPA035WB		ID8A023089			1	☒	1/2LOQ	None
90	86	3	2	3	QC	IPA035WL		ID8A023090			1	☒	LCS	None
91	87	3	3	3	QC	IPA035WC		ID8A023091			1	☒	LCS	None
92	88	3	4	3	Unk	A498-01A	5X	ID8A023092			1	☒	unk	—
93	89	3	5	3	Unk	A498-01T	5X	ID8A023093			1	☒	unk	---
94	90	3	6	3	Unk	A498-01J	25X	ID8A023094			1	☒	unk	---
95	91	3	7	3	Unk	A499-01T	5X	ID8A023095			1	☒	unk	---
96	92	3	8	3	Blank	Blank		ID8A023096			1	☐		—
97	93	3	9	3	QC	ICSA2		ID8A023097			1	☒	ICSA	None
98	94	3	10	3	QC	ICSAB2		ID8A023098			1	☒	ICSAB	None
99	95	3	11	3	QC	CCV10		ID8A023099			1	☒	CCV	None
100	96	3	12	3	QC	CCB10		ID8A023100			1	☒	3XIDL	None
101	42	2	6	4	Unk	BLANK1		ID8A023101			1	☒	unk	—
102	43	2	7	4	Unk	BLANK2		ID8A023102			1	☒	unk	---
103	44	2	8	4	Unk	BLANK3		ID8A023103			1	☒	unk	---
104	45	2	9	4	Unk	BLANK4		ID8A023104			1	☒	unk	---
105	46	2	10	4	Unk	BLANK5		ID8A023105			1	☒	unk	---
106	47	2	11	4	Unk	BLANK6		ID8A023106			1	☒	unk	—
107	48	2	12	4	Unk	BLANK7		ID8A023107			1	☒	unk	—

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ID8A023 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00137	.00002	-.00001	.00020	.00008	.00037	-.00005	.00024	-.00002	-.00095	Blank
2	S20					.95414		.13440				S20
3	S21					9.1677		1.2186				S21
4	S22				.50596						.16495	S22
5	S23				4.9066						1.7095	S23
6	S24						.10158					S24
7	S25						1.0548					S25
8	S26	.28876							.86466	.14470		S26
9	S27	10.534							7.9633	1.3920		S27
10	S28		.00562									S28
11	S29		.05622									S29
12	S30			.00145								S30
13	S31			.00585								S31
14	ICV	104.75	1.4691	1.0256	1.9847	1.4808	2.4452	1.9937	74.810	2.4328	.91800	ICV
15	ICB	.01047	.00226	.00145*	.00025	.00013	.00372	-.00001	.01052	.00036	-.00007	ICB
16	MRLA2603	.21877	.10128	.01017	.01053	.00989	.00978	.01059	1.0600	.01061	.00923	MRLA2603
17	MRLA2604	.22320	.05166	.01049	.00574	.00422	.09588	.00548	.57043	.01084	.00908	MRLA2604
18	ICSA1	395.02	.00840	-.00023	.00127	-.00003	.00898	-.00450	478.24	.00194	-.00075	ICSA1
19	ICSAB1	394.77	1.0358	1.0639	.53804	.49006	.50458	.96533	467.47	.47898	.46834	ICSAB1
20	CCV1	103.15	1.5116	1.0241	1.9809	1.4542	2.4200	1.9897	72.303	2.4332	.93529	CCV1
21	CCB1	.01906	.00196	-.00031	.00038	.00022	.00316	.00012*	.02033	.00046	.00009	CCB1
22	IPA045SB	.01165	.00155	-.00131	-.00001	.00003	.00108	-.00017	.00242	.00026	-.00004	IPA045SB
23	IPA045SL	5.0268	2.4188	.49424	.49592	.49562	.45990	.50505	50.814	.50724	.48400	IPA045SL
24	IPA045SC	5.0388	2.3986	.49594	.49567	.49831	.45720	.50544	50.673	.50866	.48320	IPA045SC
25	MDLV-01	.05434	.02902	.00123	.00241	.00205	.00904	.00088	.13357	.00251	.00184	MDLV-01
26	MDLV-02	.01522	.01062	-.00155	.00018	-.00001	.00023	-.00014	.00771	.00046	-.00007	MDLV-02
27	MDLV-03	.00910	.02073	-.00087	.00006	-.00003	.00002	-.00008	.01247	.00033	.00006	MDLV-03
28	Blank	.08404	.00108	.00110	.00306	.00120	.00100	.00165	.13621	.00220	.00081	Blank
29	CCV2	102.72	1.5188	1.0215	1.9857	1.4664	2.4347	1.9900	73.735	2.4444	.93005	CCV2
30	CCB2	.01062	.00170	.00066	.00034	.00018	.00309	.00009	.00684	.00024	-.00005	CCB2
31	IPA033WB	.01906	.00049	.00043	.00041	.00001	.00212	.00002	.03536	.00022	.00002	IPA033WB
32	IPA033WL	5.6878	2.6385	.55729	.50832	.51596	.55951	.54777	51.791	.51508	.46086	IPA033WL
33	IPA033WC	5.7902	2.6878	.56632	.51602	.52057	.57018	.55323	52.247	.51844	.46788	IPA033WC
34	MDLV-01	.08821	.03709	.00614	.00268	.00088	.01027	.00089	.14772	.00239	.00255	MDLV-01
35	MDLV-02	.01043	.03182	.00377	.00025	.00001	-.00047	-.00004	.03358	.00026	.00009	MDLV-02
36	BLK	.03368	.15833	.00000	.00521	-.00003	.00016	-.00005	2.3122	.00085	-.00003	BLK
37	LCS	5.3808	2.6868	.54226	.53500	.53088	.48790	.53104	56.191	.54246	.52289	LCS
38	Blank	.08564	.00224	.00082	.00295	.00122	.00148	.00164	.11093	.00223	.00079	Blank
39	Blank	.08748	.00170	.00156	.00303	.00118	.00083	.00164	.10575	.00217	.00072	Blank
40	CCV3	103.47	1.5291	1.0358	1.9909	1.4764	2.4375	2.0123	74.156	2.4578	.93128	CCV3
41	CCB3	.01310	.00169	.00049	.00028	.00019	.00231	.00010	.00483	.00029	.00004	CCB3
42	A140-01A	5.8871	2.6777	.59106	1.4294	.49584	1.3638	.51994	82.910	.51481	.49118	A140-01A
43	A140-01W	.04221	.00298	.00938	.94444	.00003	.87498	.00018	34.386	.00229	-.00066	A140-01W
44	A140-01J	.01447	.00219	.00118	.18643	-.00002	.16797	-.00001	6.9850	.00065	-.00025	A140-01J
45	A140-01G	5.9445	2.7640	.62431	1.4202	.50036	1.3718	.52588	84.454	.51658	.48497	A140-01G
46	A140-01H	5.9374	2.7977	.62345	1.4923	.49795	1.4423	.51367	86.517	.51184	.48541	A140-01H
47	Blank	.09751	.00286	.00141	.00314	.00121	.00328	.00156	.11242	.00209	.00071	Blank
48	CCV4	105.42	1.5345	1.0152	1.9990	1.4698	2.4428	1.9350	73.244	2.4074	.93936	CCV4
49	CCB4	.01582	.00209	.00074	.00032	.00018	.00294	.00005	.00596	.00047	.00007	CCB4
50	A140-01A	5.7463	2.5804	.55352	.70584	.51197	.67826	.52128	56.739	.51044	.49458	A140-01A
51	A140-01T	.02452	.00217	.00191	.18861	.00011	.16797	.00012	6.8866	.00073	-.00008	A140-01T
52	A140-01J	.01119	.00154	.00019	.03749	-.00003	.03264	.00000	1.3993	.00028	-.00003	A140-01J
53	A140-01G	1.1472	.51976	.11691	.28577	.10273	.26520	.10584	16.686	.10276	.09857	A140-01G
54	A140-01H	1.1176	.51941	.11605	.29445	.10086	.27674	.10536	17.157	.10235	.09655	A140-01H

55	Blank	.09117	.00212	.00170	.00311	.00117	.00177	.00158	.10692	.00204	.00080	Blank
56	CCV5	103.52	1.5295	1.0163	1.9993	1.4547	2.4314	1.9278	71.921	2.3863	.94055	CCV5
57	CCB5	.01318	.00238	.00048	.00027	.00017	.00312	.00009	.00425	.00027	-.00001	CCB5
58	IPA044SB	.00781	.00155	-.00057	.00016	-.00003	.00105	-.00016	.02938	.00037	.00004	IPA044SB
59	IPA044SL	5.3772	2.4867	.50502	.51511	.50580	.46802	.50085	51.612	.50993	.49845	IPAQ44SL
60	IPA044SC	5.2768	2.4726	.49848	.51124	.50284	.46650	.49929	51.452	.50959	.49985	IPA044SC
61	A195-03A	102.50	2.3939	.58732	1.6052	.50823	.48421	.49850	80.881	.66327	.58701	A195-03A
62	A195-03	96.813	.01293	.08717	1.1251	.00878	.03267	.01727	32.320	.17303	.09513	A195-03
63	A195-03J	20.014	.00365	.01610	.22331	.00218	.00606	.00398	6.4764	.03561	.01853	A195-03J
64	A195-05	98.178	.00816	.08508	1.1001	.00671	.02147	-.00193	7.4557	.24341	.07221	A195-05
65	A195-10	92.528	.01114	.08566	1.3132	.00801	.02625	-.00194	10.033	.17521	.08430	A195-10
66	Blank	.09548	.00159	.00117	.00389	.00107	.00083	.00139	.49382	.00200	.00064	Blank
67	CCV6	105.16	1.5596	1.0374	2.0226	1.4724	2.4568	1.9786	72.821	2.4205	.94714	CCV6
68	CCB6	.01202	.00107	.00019	.00018	.00012	.00224	.00002	.00315	.00035	-.00004	CCB6
69	A209-01	96.983	.00923	.08533	1.0040	.00743	.02660	.01768	25.554	.21975	.06614	A209-01
70	A209-02	92.840	.01445	.07928	1.3469	.00802	.03930	.14357	62.954	.37789	.09989	A209-02
71	A209-03	76.516	.00927	.06201	1.0729	.00644	.02138	.10946	38.768	.15376	.06442	A209-03
72	A209-04	156.90	.01273	.09589	.70715	.00923	.04878	.00435	16.575	.24599	.07234	A209-04
73	A209-05	196.32	.01356	.11915	1.3603	.01067	.06390	-.00673	19.488	.27534	.11863	A209-05
74	A209-06	161.20	.01598	.12904	1.3418	.01107	.06353	.10889	24.235	.28870	.11875	A209-06
75	A209-07	172.06	.01631	.11089	1.7790	.01059	.05816	.11179	25.639	.23329	.11404	A209-07
76	A209-08	158.42	.00999	.08249	1.3694	.00923	.03702	.00390	22.234	.18496	.11147	A209-08
77	A209-09	84.102	.00977	.07463	.94522	.00747	.03928	-.00270	14.322	.28253	.05844	A209-09
78	Blank	.06734	.00092	.00048	.00267	.00078	.00039	.00106	.12992	.00155	.00046	Blank
79	CCV7	105.16	1.5760	1.0322	2.0514	1.5002	2.4844	1.9560	75.817	2.4331	.94075	CCV7
80	CCB7	.01023	.00215	.00095	.00027	.00014	.00245	.00000	.00773	.00023	.00011	CCB7
81	A209-10	100.94	.01393	.10143	.95767	.00951	.05408	-.00591	11.220	.28456	.05110	A209-10
82	A209-11	87.092	.00918	.06729	1.0873	.00644	.02707	-.00172	16.590	.17526	.04998	A209-11
83	A209-12	105.22	.01089	.09663	.80968	.00883	.03225	-.00671	8.5218	.29343	.04831	A209-12
84	A209-13	93.444	.00911	.08458	1.2187	.00719	.02625	-.00339	14.269	.18978	.06154	A209-13
85	A209-14	112.88	.01352	.11646	1.1434	.00882	.04203	-.00648	10.068	.24509	.07105	A209-14
86	Blank	.05664	.00079	.00081	.00162	.00057	.00000	.00078	.03936	.00125	.00036	Blank
87	CCV8	104.87	1.5520	1.0358	2.0166	1.4710	2.4473	1.9775	73.284	2.4260	.93654	CCV8
88	CCB8	.01392	.00165	.00081	.00032	.00019	.00217	.00004	.00440	.00037	.00003	CCB8
89	IPA035WB	.00851	.00062	.00046	.00070	-.00001	.00150	.00000	.03651	.00021	-.00002	IPA035WB
90	IPA035WL	5.7000	2.6540	.53907	.51810	.51319	.51517	.51910	51.114	.50519	.47532	IPA035WL
91	IPA035WC	5.6905	2.6538	.53521	.51801	.51367	.51651	.51878	50.783	.50589	.47985	IPA035WC
92	A498-01A	6.4757	2.8809	.61291	.54657	.50390	1.2081	.51310	106.02	.51042	.48555	A498-01A
93	A498-01T	.29323	.00382	-.00116	.02133	.00050	.66727	.00085	56.144	.00308	.00021	A498-01T
94	A498-01J	.10197	.00265	.00045	.00555	.00054	.12381	.00078	11.423	.00154	.00032	A498-01J
95	A499-01T	.09346	.00139	-.00100	.01018	.00045	.65158	.00062	52.998	.00193	.00030	A499-01T
96	Blank	.08745	.00175	.00186	.00304	.00118	.00190	.00163	.11034	.00213	.00079	Blank
97	ICSA2	407.57	.00759	.00157	.00431	-.00007	.01442	-.00397	495.94	.00187	-.00061	ICSA2
98	ICSAB2	404.55	1.0811	1.0659	.54756	.49547	.52135	.93901	484.46	.47223	.46191	ICSAB2
99	CCV10	107.32	1.6010	1.0448	2.0475	1.4993	2.4930	1.9687	75.561	2.4297	.93258	CCV10
100	CCB10	.01506	.00261	.00007	.00021	.00017	.00283	.00003	.01033	.00029	.00010	CCB10
101	BLANK1	.00906	.00049	.00070	.00040	.00005	.00123	.00005	.15398	.00022	.00005	BLANK1
102	BLANK2	.08998	.00212	.00127	.00350	.00117	.00167	.00155	.10433	.00209	.00072	BLANK2
103	BLANK3	.06333	.00197	.00208	.00230	.00078	.00096	.00101	.12994	.00151	.00051	BLANK3
104	BLANK4	.06219	.00182	.00119	.00224	.00078	.00084	.00100	.12586	.00158	.00050	BLANK4
105	BLANK5	.06247	.00114	.00186	.00219	.00078	.00075	.00100	.12566	.00148	.00047	BLANK5
106	BLANK6	.06303	.00138	.00087	.00229	.00078	.00055	.00102	.12634	.00152	.00043	BLANK6
107	BLANK7	.06339	.00139	.00048	.00215	.00079	.00037	.00100	.12447	.00135	.00044	BLANK7
108	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00156	.00001	-.00008	.00002	.00000	.00001	.00010	-.00054	.00003	.00001	Blank
2	S20			.20427			.11798					S20
3	S21			1.9848			1.1481					S21
4	S22	.37813	.06044									S22
5	S23	3.6876	2.2932									S23
6	S24							.79374				S24
7	S25							7.8363				S25
8	S26								.81699	.32795		S26
9	S27								7.7196	3.3148		S27
10	S28					.10839						S28
11	S29					.44225						S29
12	S30				.02898						.00161	S30
13	S31				.14322						.00645	S31
14	ICV	2.5059	24.592	2.3759	.53246	56.075	2.3014	2.4635	2.4558	57.628	1.0082	ICV
15	ICB	.00007	-.00337	.00076	.00028	.01414	.00034	.00044*	-.00016	.07474	-.00096	ICB
16	MRLA2603	.00994	.21084	.01064	.01079	.97489	.00998	.01012	.01009	.95914	.00921	MRLA2603
17	MRLA2604	.01044	.10609	.00343	.10023	.19139	.00526	.00996	.01014	.95373	.00972	MRLA2604
18	ICSA1	.00093	186.22	-.00158	.00622	189.95	.00119	-.00200	-.00098	.07368	.00030	ICSA1
19	ICSAB1	.53687	184.24	.92832	1.1481	191.18	.45891	1.0270	.98289	77.355	1.0516	ICSAB1
20	CCV1	2.4987	24.178	2.3713	.53174	55.457	2.3194	2.5066	2.4595	56.980	1.0243	CCV1
21	CCB1	.00021	-.00001	.00052	.00088	.01041	.00048	.00047*	.00006	.11177	-.00035	CCB1
22	IPA045SB	-.00010	-.00001	-.00001	-.00037	.00627	.00054	.00025	.00025	.07975	-.00037	IPA045SB
23	IPA045SL	.50002	5.1283	.48367	.53179	47.848	.48188	.52751	.47061	48.334	.48325	IPA045SL
24	IPA045SC	.49886	5.1530	.48521	.53224	47.741	.48367	.52356	.47001	48.015	.48128	IPA045SC
25	MDLV-01	.00178	.03621	.00211	.01001	.10714	.00575	.00532	.00169	.25641	.00424	MDLV-01
26	MDLV-02	-.00035	.00120	.00066	.00056	.00419	.00084	.00011	-.00017	.05716	.00066	MDLV-02
27	MDLV-03	-.00029	.00879	.00087	.00044	.00951	.00111	.00007	-.00022	.27303	.00084	MDLV-03
28	Blank	.00176	.02055	.00249	.00081	.04613	.00223	.00166	.00203	.04554	-.00013	Blank
29	CCV2	2.4767	24.389	2.3746	.53158	56.160	2.3394	2.4906	2.4457	57.466	1.0157	CCV2
30	CCB2	.00014	-.00188	.00030	.00055	.00660	.00034	.00046*	-.00012	.04742	.00025	CCB2
31	IPA033WB	.00002	-.00001	.00083	.00022	.00859	.00023	-.00013	-.00003	.01658	-.00159	IPA033WB
32	IPA033WL	.52007	5.3791	.48870	.54296	49.183	.48848	.47601	.49611	50.221	.58694	IPA033WL
33	IPA033WC	.53075	5.4261	.49377	.55144	49.663	.49312	.48618	.50354	51.087	.59504	IPA033WC
34	MDLV-01	.00228	.05631	.00414	.10338	.11029	.00353	.00537	.00263	.16292	.00455	MDLV-01
35	MDLV-02	.00014	.00935	.00359	.10096	.00707	.00026	.00001	.00054	.92164	-.00129	MDLV-02
36	BLK	.00038	.04201	.00058	.00029	.17747	.00279	.00025	.00099	.17845	.00520	BLK
37	LCS	.54483	5.4805	.51235	.00108	50.826	.51068	.57012	.50394	51.313	.56343	LCS
38	Blank	.00190	.01927	.00249	.00038	.05905	.00221	.00156	.00179	.08781	.00039	Blank
39	Blank	.00194	.01870	.00263	.00056	.04572	.00215	.00158	.00177	.04906	-.00078	Blank
40	CCV3	2.4968	24.534	2.3745	.53321	56.675	2.3555	2.5007	2.4497	57.319	1.0284	CCV3
41	CCB3	.00009	-.00036	.00038	-.00014	.01184	.00031	.00053*	-.00007	.05780	-.00065	CCB3
42	A140-01A	.55995	5.3116	.49542	.46084	46.394	.56993	.52107	.47662	235.22	.56716	A140-01A
43	A140-01W	.00152	.14701	.00165	.46963	.06155	.09183	.00009	.00070	189.08	.00040	A140-01W
44	A140-01J	.00052	.02956	.00026	.08580	.01037	.01854	-.00007	-.00022	35.902	-.00080	A140-01J
45	A140-01G	.55868	5.4209	.49203	.45515	47.373	.57162	.52335	.47446	235.44	.56015	A140-01G
46	A140-01H	.55745	5.3248	.49162	.49707	47.054	.57277	.53244	.47424	250.42	.55678	A140-01H
47	Blank	.00228	.01825	.00224	.00133	.04559	.00209	.00168	.00182	.75477	.00039	Blank
48	CCV4	2.5323	24.079	2.3874	.54387	55.481	2.3296	2.5350	2.4623	58.121	1.0138	CCV4
49	CCB4	.00045	.00057	.00048	.00027	.00663	.00031	.00057*	-.00015	.29038*	-.00044	CCB4
50	A140-01A	.54493	5.2762	.50268	.08949	46.957	.50517	.52166	.47949	86.291	.54516	A140-01A
51	A140-01T	.00080	.02873	.00095	.08629	.02012	.01858	.00021	.00010	35.803	-.00009	A140-01T
52	A140-01J	.00042	.00648	.00016	.01666	.00130	.00408	.00005	-.00022	6.9251	-.00055	A140-01J
53	A140-01G	.10901	1.0805	.10091	.08484	9.2510	.11502	.10475	.09666	44.765	.10443	A140-01G
54	A140-01H	.10655	1.0716	.09933	.08953	9.1943	.11492	.10387	.09485	47.203	.10461	A140-01H

55	Blank	.00214	.01860	.00244	.00038	.04254	.00193	.00156	.00190	.28803	.00017	Blank
56	CCV5	2.5209	23.822	2.3898	.53900	54.476	2.3030	2.5343	2.4704	57.672	1.0231	CCV5
57	CCB5	.00042	-.00105	.00025	.00043	.00967	.00037	.00043*	-.00004	.17571*	.00006	CCB5
58	IPA044SB	.00012	.00656	.00002	.00042	.00112	.00020	.00020	-.00037	.16901	.00058	IPA044SB
59	IPA044SL	.52449	5.2080	.49956	.00054*	48.099	.49011	.54553	.48473	50.070	.49391	IPA044SL
60	IPA044SC	.52093	5.1376	.49793	.00046*	48.191	.48806	.54725	.48509	49.933	.48804	IPA044SC
61	A195-03A	.65879	202.73	1.5168	.05317	53.588	3.6416	.53489	.59589	57.121	.50110	A195-03A
62	A195-03	.12482	204.58	1.0659	.05134	7.4582	3.2854	.00811	.12724	8.2182	.00787	A195-03
63	A195-03J	.02499	41.703	.21545	.00984	1.5142	.66407	.00206	.02481	1.6145	.00048	A195-03J
64	A195-05	.06194	180.49	.29003	.05007	6.2481	2.9187	.00880	.07872	5.6247	.00466	A195-05
65	A195-10	.07570	222.39	.26430	.04573	6.0989	3.6017	.00902	.08664	6.3037	.00773	A195-10
66	Blank	.00227	.03655	.00194	.00060	.04261	.00260	.00137	.00177	.07626	.00012	Blank
67	CCV6	2.5697	24.310	2.4014	.54398	55.394	2.3293	2.5606	2.4898	57.968	1.0423	CCV6
68	CCB6	.00006	-.00114	.00052	.00046	.00488	.00038	.00050*	-.00020	.08154	-.00170	CCB6
69	A209-01	.07326	214.82	.79299	.06226	8.1603	2.7082	.00839	.09407	5.6182	.00658	A209-01
70	A209-02	.13029	257.84	2.6391	.07170	12.022	4.7422	.01237	.24225	9.4465	.00716	A209-02
71	A209-03	.09049	162.86	.86516	.05467	7.5370	2.0873	.00597	.10194	5.4698	.00497	A209-03
72	A209-04	.09365	294.54	.28096	.10153	14.391	2.1875	.00967	.15226	9.6712	.00871	A209-04
73	A209-05	.11315	363.80	.12609	.13115	17.396	1.8570	.01224	.18076	11.616	.01252	A209-05
74	A209-06	.18624	331.44	1.8761	.11218	12.414	3.3760	.00960	.24779	10.077	.00986	A209-06
75	A209-07	.18025	301.79	1.8692	.12423	13.849	3.2077	.00859	.24536	10.833	.01029	A209-07
76	A209-08	.09543	238.11	.19144	.10955	13.660	2.7258	.00726	.17861	9.3153	.00653	A209-08
77	A209-09	.07386	224.44	.23796	.04811	5.0622	2.5805	.00877	.11953	5.9983	.00675	A209-09
78	Blank	.00146	.03104	.00214	.00050	.02431	.00201	.00102	.00117	.03386	.00003	Blank
79	CCV7	2.5452	24.621	2.4082	.55265*	56.735	2.3652	2.5505	2.4742	59.393	1.0311	CCV7
80	CCB7	.00019	.00288	.00088	.00033	.00940	.00041	.00043*	-.00008	.05848	-.00043	CCB7
81	A209-10	.07387	349.72	.15177	.05524	5.1295	2.3332	.01126	.12530	6.1226	.00695	A209-10
82	A209-11	.06781	190.57	.18614	.04544	5.5940	2.4061	.00690	.11453	5.8221	.00386	A209-11
83	A209-12	.05731	272.70	.13021	.05329	5.0129	1.4988	.01081	.08535	5.6971	.00660	A209-12
84	A209-13	.05748	219.04	.19000	.04811	5.9703	3.4262	.00927	.07018	5.9838	.00561	A209-13
85	A209-14	.05565	298.36	.15330	.05942	6.4933	2.8673	.01242	.07995	6.5557	.00734	A209-14
86	Blank	.00114	.03006	.00118	.00028	.01989	.00148	.00074	.00077	.02183	-.00041	Blank
87	CCV8	2.5374	24.482	2.3840	.53871	55.672	2.3270	2.5347	2.4617	57.612	1.0343	CCV8
88	CCB8	.00038	.00172	.00058	.00078	.01172	.00033	.00045*	.00001	.04323	.00027	CCB8
89	IPA035WB	.00016	.01617	.00048	.00026	.00678	.00048	-.00005	.00021	.00494	-.00063	IPA035WB
90	IPA035WL	.52612	5.3378	.49457	.00075*	47.970	.48313	.51314	.50888	49.135	.53414	IPA035WL
91	IPA035WC	.52784	5.3083	.49822	.00060*	47.718	.48246	.51672	.51354	48.946	.53313	IPA035WC
92	A498-01A	.65012	5.5580	.49297	.03160	206.59	.53586	.53318	.49936	114.43	.60608	A498-01A
93	A498-01T	.07288	.29181	.00148	.03068	157.76	.05433	.00191	.03088	59.413	-.00052	A498-01T
94	A498-01J	.01461	.06097	.00131	.00637	30.630	.01179	.00103	.00690	10.755	.00083	A498-01J
95	A499-01T	.11506	.18622	.00092	.02962	148.47	.01719	.00128	.03086	56.838	.00023	A499-01T
96	Blank	.00230	.02007	.00249	.00135	.06366	.00206	.00153	.00195	.40071	.00085	Blank
97	ICSA2	.00126	192.16	-.00135	.00738	197.68	.00121	-.00203	-.00102	.29509	.00232	ICSA2
98	ICSAB2	.54457	187.73	.92892	1.1682	191.91	.45778	1.0336	.97352	79.752	1.0605	ICSAB2
99	CCV10	2.5594	25.049	2.3939	.54894	56.659	2.3513	2.5465	2.4551	59.245	1.0440	CCV10
100	CCB10	.00054	.00316	.00026	.00065	.01278	.00057*	.00048*	-.00019	.19341*	-.00112	CCB10
101	BLANK1	.00043	.00093	.00040	.00010	.00957	.00029	.00012	.00003	.12796	-.00126	BLANK1
102	BLANK2	.00244	.02233	.00223	.00072	.04467	.00203	.00165	.00186	.13760	.00042	BLANK2
103	BLANK3	.00154	.01242	.00153	.00013	.03141	.00146	.00106	.00108	.10119	-.00059	BLANK3
104	BLANK4	.00180	.01407	.00186	.00054	.03477	.00153	.00101	.00118	.10109	.00011	BLANK4
105	BLANK5	.00159	.01360	.00108	.00078	.02786	.00154	.00101	.00109	.08522	.00060	BLANK5
106	BLANK6	.00162	.01215	.00152	.00090	.02766	.00156	.00102	.00117	.07278	.00020	BLANK6
107	BLANK7	.00166	.01376	.00212	.00037	.02985	.00123	.00107	.00119	.07666	-.00048	BLANK7
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

ID8A023 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00009	.00124	-.00008	-.00002	.00007	.00002	-.00012	.00081	Blank
2	S20									S20
3	S21									S21
4	S22							.15667		S22
5	S23							1.5551		S23
6	S24		1.0964							S24
7	S25		6.3431							S25
8	S26									S26
9	S27									S27
10	S28				.00665					S28
11	S29				.06318					S29
12	S30	.04597		.13530		.02462	.01653		.59228	S30
13	S31	.22724		.66805		.11998	.08216		5.6941	S31
14	ICV	.50548	62.062	.48967	2.2981	.49233	.49040	1.4635	2.6135	ICV
15	ICB	.00020	.03301	.00008	.00006	.00008	.00020	.00017	.00374	ICB
16	MRLA2603	.01015	1.0338	.01012	.01089	.00034	.00963	.01026	.02258	MRLA2603
17	MRLA2604	.01049	.51251	.01034	.01096	.01030	.01006	.01036	.01353*	MRLA2604
18	ICSA1	.00034	.07399	.02077	.00185	.00230	.00113	.00192	.00209	ICSA1
19	ICSAB1	1.1053	81.743	.51649	.84002	.99423	.97926	.49246	1.0631	ICSAB1
20	CCV1	.50594	61.032	.48501	2.3202	.50591	.48153	1.4714	2.6333	CCV1
21	CCB1	.00006	.05504	.00008	.00019	.00044	.00019	.00025	.00002	CCB1
22	IPA045SB	-.00009	.03674	-.00006	-.00104	.03852	.00019	.00016	.00050	IPA045SB
23	IPA045SL	.48839	51.908	.48685	.46323	.53848	.50191	.50666	.55049	IPA045SL
24	IPA045SC	.49066	51.514	.48193	.46468	.53532	.50091	.50725	.55170	IPA045SC
25	MDLV-01	.00203	.16196	.00195	.00394	.04907	.01023	.00494	.00667	MDLV-01
26	MDLV-02	-.00002	.02830	-.00001	-.00071	.03857	-.00018	.00015	.00176	MDLV-02
27	MDLV-03	.00004	.02365	.00002	-.00095	.03859	-.00003	.00007	.00131	MDLV-03
28	Blank	.00056	.05208	.00050	.00269	.00075	.00062	.00129	.00647	Blank
29	CCV2	.50727	61.514	.48734	2.3165	.51104	.48381	1.4637	2.6433	CCV2
30	CCB2	.00008	.02917	.00001	.00052	.00031	.00017	.00022	-.00045	CCB2
31	IPA033WB	.00022	.01120	.00007	.00038	-.00008	-.00005	.00017	.00270	IPA033WB
32	IPA033WL	.53669	53.545	.48030	.52732	.48475	.50541	.51016	.54286	IPA033WL
33	IPA033WC	.54380	54.345	.49067	.53684	.49289	.51712	.51689	.54680	IPA033WC
34	MDLV-01	.00390	.14711	.00107	.00579	.00548	.00541	.00469	.00802	MDLV-01
35	MDLV-02	.00011	.28890	.00009	-.00007	.00012	.00003	.00002	.00371	MDLV-02
36	BLK	-.00014	5.0512	.00603	-.00456	.03560	.43588	.00017	.03216	BLK
37	LCS	.51640	60.211	.52476	.47953	.56712	.88895	.53997	.62529	LCS
38	Blank	.00046	.07022	.00054	.00268	.00078	.00082	.00139	.00458	Blank
39	Blank	.00040	.05160	.00050	.00204	.00073	.00035	.00103	.00478	Blank
40	CCV3	.51007	61.537	.48704	2.3501	.50952	.48819	1.4745	2.6464	CCV3
41	CCB3	.00005	.02576	.00001	.00020	.00019	-.00022	.00023	-.00057	CCB3
42	A140-01A	.57105	844.75*	1.5452	.45634	.49774	.49821	.51899	.60246	A140-01A
43	A140-01W	.00008	816.98*	1.0986	.00083	-.00041	.00086	.00041	.01978	A140-01W
44	A140-01J	.00011	168.83	.21740	.00087	.00064	.00006	.00008	.00423	A140-01J
45	A140-01G	.58795	847.33*	1.5574	.45635	.51083	.51366	.51729	.59778	A140-01G
46	A140-01H	.58930	893.41*	1.6478	.44724	.51590	.51860	.51193	.58272	A140-01H
47	Blank	.00055	.69342	.00066	.00202	.00058	.00054	.00127	.00447	Blank
48	CCV4	.51032	62.393	.49268	2.2899	.51514	.48627	1.4516	2.5943	CCV4
49	CCB4	.00012	.21739*	.00005	.00063	.00029	-.00033	.00019	-.00053	CCB4
50	A140-01A	.52784	223.07	.69632	.48203	.50125	.50435	.51777	.56163	A140-01A
51	A140-01T	.00012	170.14	.21894	.00016	.00031	.00017	.00030	.00378	A140-01T
52	A140-01J	-.00004	34.216	.04357	.00037	.00047	-.00006	.00008	.00094	A140-01J
53	A140-01G	.10571	175.99	.31233	.09857	.10295	.10251	.10325	.11642	A140-01G
54	A140-01H	.10455	186.20	.32590	.09691	.10201	.10160	.10205	.11373	A140-01H

55	Blank	.00046	.27602	.00058	.00259	.00091	.00051	.00123	.00494	Blank
56	CCV5	.50585	61.786	.49171	2.2745	.51312	.48311	1.4461	2.6024	CCV5
57	CCB5	.00007	.14093*	.00004	.00036	.00051	-.00002	.00019	-.00066	CCB5
58	IPA044SB	-.00010	.14065	.00003	-.00125	.03237	.00001	.00019	.00220	IPA044SB
59	IPA044SL	.50191	53.841	.50029	.46809	.54970	.51507	.51331	.55599	IPA044SL
60	IPA044SC	.50229	53.532	.50024	.46440	.54835	.51572	.51346	.55622	IPA044SC
61	A195-03A	.49671	53.084	.56371	.44029	.53108	1.4544	.77010	3.4469	A195-03A
62	A195-03	-.00007	.84918	.08754	-.00019	.04168	.98807	.27832	2.9799	A195-03
63	A195-03J	.00033	.20804	.01740	.00133	.00856	.19466	.05590	.57270	A195-03J
64	A195-05	-.00037	.54204	.07394	-.00085	.04009	1.1930	.35708	.48297	A195-05
65	A195-10	-.00015	.50237	.08672	-.00118	.04110	1.0156	.30139	.57371	A195-10
66	Blank	.00040	.07082	.00057	.00189	.00133	.00072	.00119	.03306	Blank
67	CCV6	.51313	62.194	.49451	2.3288	.51640	.48923	1.4724	2.6289	CCV6
68	CCB6	.00010	.05079	.00003	.00013	.00054	.00028	.00015	-.00089	CCB6
69	A209-01	-.00014	.45109	.09859	-.00054	.04651	.84215	.34594	5.0455	A209-01
70	A209-02	.00002	.46537	.14239	-.00051	.04882	.65472	.29906	20.772	A209-02
71	A209-03	-.00015	.43563	.09528	-.00014	.05136	.62481	.25642	12.820	A209-03
72	A209-04	.00023	.84048	.12528	.00253	.04315	1.0459	.37260	2.2574	A209-04
73	A209-05	.00020	.86494	.16854	.00214	.04415	1.1009	.43859	.34394	A209-05
74	A209-06	.00004	.55836	.13937	.00071	.04719	.94971	.41967	23.097	A209-06
75	A209-07	-.00003	.60401	.15055	.00238	.04785	.97665	.39402	23.753	A209-07
76	A209-08	-.00018	.54671	.14403	.00029	.04551	.84594	.33700	2.1936	A209-08
77	A209-09	-.00021	.23234	.06776	.00041	.04119	1.1955	.33893	.66427	A209-09
78	Blank	.00046	.03436	.00035	.00105	.00096	.00081	.00085	.00915	Blank
79	CCV7	.51567	63.662	.50250	2.3175	.52838	.50048	1.4538	2.6321	CCV7
80	CCB7	.00010	.02684	.00003	.00005	.00056	-.00007	.00010	-.00067	CCB7
81	A209-10	-.00007	.22140	.07390	.00133	.04296	1.2052	.39245	.42383	A209-10
82	A209-11	-.00021	.20375	.08186	.00054	.04150	1.0293	.25216	.71414	A209-11
83	A209-12	-.00003	.18112	.06604	.00158	.04589	1.0118	.39273	.35157	A209-12
84	A209-13	-.00025	.22035	.08593	-.00084	.04145	1.0432	.36176	.55546	A209-13
85	A209-14	-.00018	.23067	.09092	.00026	.04177	1.0655	.44131	.29355	A209-14
86	Blank	.00015	.01341	.00021	.00122	.00026	.00056	.00069	.00132	Blank
87	CCV8	.51038	61.760	.49134	2.3348	.51716	.48981	1.4648	2.6154	CCV8
88	CCB8	.00010	.01877	.00002	-.00013	-.00003	.00001	.00015	-.00045	CCB8
89	IPA035WB	.00001	.00505	.00001	.00015	.00020	.00005	.00007	.00288	IPA035WB
90	IPA035WL	.52240	52.849	.48646	.50560	.50927	.51900	.50671	.53651	IPA035WL
91	IPA035WC	.52420	52.678	.48743	.50188	.51424	.51959	.50732	.53795	IPA035WC
92	A498-01A	.60616	1363.9*	1.4785	.45157	.51145	.51299	.51268	.71497	A498-01A
93	A498-01T	.00036	1307.5*	.99467	.00023	.00175	.00153	.00055	.14767	A498-01T
94	A498-01J	.00035	270.09	.19258	.00055	.00069	.00033	.00042	.03324	A498-01J
95	A499-01T	.00037	1226.6*	.93609	-.00021	.00081	.00197	.00056	.03988	A499-01T
96	Blank	.00051	.77030	.00056	.00261	.00079	.00046	.00111	.00444	Blank
97	ICSA2	.00061	.54678	.01996	.00207	.00291	.00239	.00145	.00195	ICSA2
98	ICSAB2	1.1177	83.888	.52656	.83366	1.0261	1.0006	.47939	1.0405	ICSAB2
99	CCV10	.51549	63.360	.49802	2.3506	.52854	.50168	1.4537	2.6129	CCV10
100	CCB10	.00012	.25962*	.00006	.00014	.00015	.00005	.00010	-.00052	CCB10
101	BLANK1	.00002	.18517	.00003	-.00033	.00011	.00025	.00009	.00806	BLANK1
102	BLANK2	.00048	.21768	.00053	.00244	.00045	.00039	.00126	.00453	BLANK2
103	BLANK3	.00055	.18074	.00036	.00172	.00091	.00016	.00076	.00666	BLANK3
104	BLANK4	.00040	.16059	.00035	.00143	.00084	.00038	.00085	.00632	BLANK4
105	BLANK5	.00039	.14508	.00037	.00186	.00089	.00005	.00082	.00639	BLANK5
106	BLANK6	.00048	.13119	.00033	.00178	.00116	.00007	.00085	.00637	BLANK6
107	BLANK7	.00041	.12169	.00036	.00154	.00105	.00035	.00080	.00670	BLANK7
108	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments: DIGESTOR D

Book #: EIP-098
Batch: 1PA044S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

1/26/11 Start	Temp	1/26/11 End	Temp
1115	90°c	1515	90°c

Standards	ID	Amount Added (ml)
LCS-1	SM1A-1302-11	0.5
LCS-2	12	0.5
LCS-3	13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101983555

Prepared By: LK/NT
Standard Added By: LK/NT Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

FileID: IPA044S.xls

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA044S01	IPA044SB	1	g	1/26/11 9:35	100	1	100	1	
11IPA044S02	IPA044SL	1	g	1/26/11 9:35	100	1	100	1	
11IPA044S03	IPA044SC	1	g	1/26/11 9:35	100	1	100	1	
11IPA044S04	A195-03	1.008	g	1/26/11 9:37	100	1	100	0.992	DRIED AND SIEVED ✓
11IPA044S05	A195-05	1.059	g	1/26/11 9:38	100	1	100	0.944	DRIED AND SIEVED ✓
11IPA044S06	A195-10	1.074	g	1/26/11 9:38	100	1	100	0.931	DRIED AND SIEVED ✓
11IPA044S07	A209-01	1.071	g	1/26/11 9:49	100	1	100	0.934	
11IPA044S08	A209-02	1.088	g	1/26/11 9:51	100	1	100	0.919	
11IPA044S09	A209-03	1.002	g	1/26/11 9:53	100	1	100	0.998	
11IPA044S10	A209-04	1.044	g	1/26/11 9:53	100	1	100	0.958	
11IPA044S11	A209-05	1.034	g	1/26/11 9:55	100	1	100	0.967	
11IPA044S12	A209-06	1.076	g	1/26/11 9:57	100	1	100	0.929	
11IPA044S13	A209-07	1.059	g	1/26/11 9:58	100	1	100	0.944	
11IPA044S14	A209-08	1.04	g	1/26/11 9:59	100	1	100	0.962	
11IPA044S15	A209-09	1.011	g	1/26/11 10:01	100	1	100	0.989	
11IPA044S16	A209-10	1.072	g	1/26/11 10:02	100	1	100	0.933	
11IPA044S17	A209-11	1.082	g	1/26/11 10:04	100	1	100	0.924	
11IPA044S18	A209-12	1.02	g	1/26/11 10:06	100	1	100	0.98	
11IPA044S19	A209-13	1.087	g	1/26/11 10:08	100	1	100	0.92	
11IPA044S20	A209-14	1.067	g	1/26/11 10:09	100	1	100	0.937	
11IPA044S21	A169-01	1.079	g	1/26/11 10:10	100	1	100	0.927	
11IPA044S22	A169-02	1.044	g	1/26/11 10:11	100	1	100	0.958	
11IPA044S23	A169-03	1.02	g	1/26/11 10:12	100	1	100	0.98	
11IPA044S24	A169-03M	1.022	g	1/26/11 10:12	100	1	100	0.978	
11IPA044S25	A169-03S	1.024	g	1/26/11 10:13	100	1	100	0.977	

LK 1/26/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/26/11 11:15 Prepared By: LK/NT

☑ Digestion Ended @ 1/26/11 15:15 Checked By: TH

Comments: Date 1/26/2011

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11A209**

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GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7046 7047 – 7084
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-31-2011
EMAX Batch No.: 11A209

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 01/25/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB046-28A	A209-01	01/21/11	SOIL	CADMIUM
CB046-23A	A209-02	01/21/11	SOIL	CADMIUM
CB046-06A	A209-03	01/21/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB046-65-01	A209-04	01/21/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB046-65-02	A209-05	01/21/11	SOIL	CADMIUM
CB046-66-01	A209-06	01/21/11	SOIL	CADMIUM
CB046-66-01FD	A209-07	01/21/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB046-66-02	A209-08	01/21/11	SOIL	CADMIUM
CP093-S3-01-01	A209-09	01/22/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S3-01-02	A209-10	01/22/11	SOIL	CADMIUM
CP093-S3-02-01	A209-11	01/22/11	SOIL	CADMIUM

Sample ID	Control #	Col Date	Matrix	Analysis
CP093-S3-02-02	A209-12	01/22/11	SOIL	CADMIUM
CP093-S3-03-01	A209-13	01/22/11	SOIL	CADMIUM
CP093-S3-03-02	A209-14	01/22/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Chain of Custody Record

11A209

CH-1002

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client CH2M HILL, Inc.	**Project Manager** John Ynfante		**Date** January 24, 2011	**Chain of Custody Number** 1 of 1
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401		
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**	
Project Name Tar Creek OU4	**Carrier/Waybill Numbe** 794349832926	**CH2M HILL Project Number:** 413831.CV.01		
Samplers: SP/PG/KT				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb-sieved	Zn	Cd					Comments
1	CB046-28A	January 21, 2011	9:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
2	CB046-23A	January 21, 2011	9:40	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
3	**CB046-06A**	**January 21, 2011**	**9:55**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	**x**	**x**	**x**					**Sieved lead sample (3 day TAT)**
4	CB046-65-01	January 21, 2011	11:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
5	CB046-65-02	January 21, 2011	11:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
6	CB046-66-01	January 21, 2011	13:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
7	CB046-66-01FD	January 21, 2011	13:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					*Sieved lead sample*
8	CB046-66-02	January 21, 2011	13:55	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
9	CP093-S3-01-01	January 22, 2011	10:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
10	CP093-S3-01-02	January 22, 2011	10:25	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
11	CP093-S3-02-01	January 22, 2011	10:45	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
12	CP093-S3-02-02	January 22, 2011	11:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
13	CP093-S3-03-01	January 22, 2011	11:20	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
14	CP093-S3-03-02	January 22, 2011	11:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
15																

Turnaround Time
7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T = 13.5° C

1. Relinquished By Kui Tan	***Date:*** January 24, 2011	***Time:*** 18:00	***1. Received By:*** FedEX	***Date:***	***Time:***
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***	
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:*** 1/25/11	0920

Comments
Sieve lead samples with #60 sieve: Analyze bolded samples under an expedited 3 day turnaround time (TAT). All samples shall also be analyzed for percent moisture content.

002

Chain of Custody Record

11A209

CH-1002

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client	Project Manager		Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante		January 24, 2011	1 of 1
Address	**Telephone Number**	**Fax Number**		
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401		
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**	
Houston, TX 77079	John Ynfante	Contact John Ynfante		
Project Name	**Carrier/Waybill Numbe**	**CH2M HILL Project Number:**		
Tar Creek OU4	794349832926	413831.CV.01		
Samplers:				
SP/PG/KT				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Zn	Cd					Comments
1	CB046-28A	January 21, 2011	9:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
2	CB046-23A	January 21, 2011	9:40	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
3	**CB046-06A**	**January 21, 2011**	**9:55**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	**x**	**x**	**x**					**Sieved lead sample (3 day TAT)**
4	CB046-65-01	January 21, 2011	11:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
5	CB046-65-02	January 21, 2011	11:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
6	CB046-66-01	January 21, 2011	13:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
7	CB046-66-01FD	January 21, 2011	13:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
8	CB046-66-02	January 21, 2011	13:55	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
9	CP093-S3-01-01	January 22, 2011	10:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
10	CP093-S3-01-02	January 22, 2011	10:25	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
11	CP093-S3-02-01	January 22, 2011	10:45	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
12	CP093-S3-02-02	January 22, 2011	11:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
13	CP093-S3-03-01	January 22, 2011	11:20	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
14	CP093-S3-03-02	January 22, 2011	11:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
15																

Turnaround Time

7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T = 13.5°C

1. Relinquished By Kui Tan	***Date:*** January 24, 2011	***Time:*** 18:00	***1. Received By:*** FedEX	***Date:***	***Time:***
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***	
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:*** 1/25/11	0920

Comments
Sieve lead samples with #60 sieve: Analyze bolded samples under an expedited 3 day turnaround time (TAT). All samples shall also be analyzed for percent moisture content.

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11A209
☐ EMAX Courier		Recepient J-LUNA
☐ Client Delivery		Date 1-25-11
☑ Third Party FEDEX	794349832926	Time 0920

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 3.5 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Thermometer: ***A - S/N 101541371*** ***B - S/N 101541382***

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling _____ Date 1/25/11

SRF _____ Date 01/25/11

PM LeTorre Date 1/25/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

Ye Myint

From: John.Ynfante@CH2M.com
Sent: Sunday, January 23, 2011 2:56 PM
To: Ye Myint
Subject: Rush CB046-06A

Ye,

When you receive sample CB046-06A please put a 3-day rush TAT for zinc and cadmium. Thanks!

From: (281) 721-8534
Kui Tan
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11101012220225

Ship Date: 24JAN11
ActWgt: 30.0 LB
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Ref # 413831.CV.01/AAB00103032
Invoice #
PO #
Dept #

11A209

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

TUE - 25 JAN A1
PRIORITY OVERNIGHT

TRK# 0201 7943 4983 2926

90501
CA-US
LAX

A7 AVXA

50DG1/DE77/FEFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11A209

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A209

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of fourteen (14) soil samples were received on 01/25/11 for Metals by ICP analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA044SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A209
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA044SB	1	NA	01/26/1119:17	01/26/1111:15	ID8A023058	ID8A023056	IPA044S	Method Blank
LCS1S	IPA044SL	1	NA	01/26/1119:20	01/26/1111:15	ID8A023059	ID8A023056	IPA044S	Lab Control Sample (LCS)
LCD1S	IPA044SC	1	NA	01/26/1119:23	01/26/1111:15	ID8A023060	ID8A023056	IPA044S	LCS Duplicate
CP093-S4-02-01AS	A195-03A	0.992	19.3	01/26/1119:25	01/26/1111:15	ID8A023061	ID8A023056	IPA044S	Analytical Spike Sample
CP093-S4-02-01	A195-03	0.992	NA	01/26/1119:28	01/26/1111:15	ID8A023062	ID8A023056	IPA044S	Field Sample
CP093-S4-02-01DL	A195-03J	4.96	NA	01/26/1119:31	01/26/1111:15	ID8A023063	ID8A023056	IPA044S	Diluted Sample
CB046-28A	A209-01	0.934	10.2	01/26/1119:47	01/26/1111:15	ID8A023069	ID8A023067	IPA044S	Field Sample
CB046-23A	A209-02	0.919	17.4	01/26/1119:50	01/26/1111:15	ID8A023070	ID8A023067	IPA044S	Field Sample
CB046-65-02	A209-05	0.967	22.5	01/26/1119:58	01/26/1111:15	ID8A023073	ID8A023067	IPA044S	Field Sample
CB046-66-01	A209-06	0.929	17.2	01/26/1120:01	01/26/1111:15	ID8A023074	ID8A023067	IPA044S	Field Sample
CB046-66-02	A209-08	0.962	20.5	01/26/1120:07	01/26/1111:15	ID8A023076	ID8A023067	IPA044S	Field Sample
CP093-S3-01-02	A209-10	0.933	19.7	01/26/1120:21	01/26/1111:15	ID8A023081	ID8A023079	IPA044S	Field Sample
CP093-S3-02-01	A209-11	0.924	23.0	01/26/1120:24	01/26/1111:15	ID8A023082	ID8A023079	IPA044S	Field Sample
CP093-S3-02-02	A209-12	0.980	18.1	01/26/1120:26	01/26/1111:15	ID8A023083	ID8A023079	IPA044S	Field Sample
CP093-S3-03-01	A209-13	0.920	18.7	01/26/1120:29	01/26/1111:15	ID8A023084	ID8A023079	IPA044S	Field Sample
CP093-S3-03-02	A209-14	0.937	18.0	01/26/1120:32	01/26/1111:15	ID8A023085	ID8A023079	IPA044S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 09:30
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-28A	Date Analyzed:	01/26/11 19:47
Lab Samp ID:	A209-01	Dilution Factor:	0.934
Lab File ID:	ID8A023069	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	10.2
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.84	1.04	0.104

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 09:40
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-23A	Date Analyzed:	01/26/11 19:50
Lab Samp ID:	A209-02	Dilution Factor:	0.919
Lab File ID:	ID8A023070	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	17.4
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	16.0	1.11	0.111

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 11:50
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-65-02	Date Analyzed:	01/26/11 19:58
Lab Samp ID:	A209-05	Dilution Factor:	0.967
Lab File ID:	ID8A023073	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	22.5
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.25	0.125

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 13:50
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-66-01	Date Analyzed:	01/26/11 20:01
Lab Samp ID:	A209-06	Dilution Factor:	0.929
Lab File ID:	ID8A023074	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	17.2
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	12.2	1.12	0.112

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 13:55
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-66-02	Date Analyzed:	01/26/11 20:07
Lab Samp ID:	A2D9-08	Dilution Factor:	0.962
Lab File ID:	ID8A023076	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	2D.5
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.472J	1.21	0.121

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/22/11 10:25
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S3-01-02	Date Analyzed:	01/26/11 20:21
Lab Samp ID:	A209-10	Dilution Factor:	0.933
Lab File ID:	ID8A023081	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	19.7
Calib. Ref.:	ID8A023079	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.16	0.116

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/22/11 10:45
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S3-02-01	Date Analyzed:	01/26/11 20:24
Lab Samp ID:	A209-11	Dilution Factor:	D.924
Lab File ID:	ID8A023082	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	23.0
Calib. Ref.:	ID8A023079	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.20	0.12D

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/22/11 11:00
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S3-02-02	Date Analyzed:	01/26/11 20:26
Lab Samp ID:	A209-12	Dilution Factor:	0.980
Lab File ID:	ID8A023083	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	18.1
Calib. Ref.:	ID8A023079	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.20	0.120

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/22/11 11:20
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S3-03-01	Date Analyzed:	01/26/11 20:29
Lab Samp ID:	A209-13	Dilution Factor:	0.920
Lab File ID:	ID8A023084	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	18.7
Calib. Ref.:	ID8A023079	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.13	0.113

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/22/11 11:30
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S3-03-02	Date Analyzed:	01/26/11 20:32
Lab Samp ID:	A209-14	Dilution Factor:	0.937
Lab File ID:	ID8A023085	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	18.0
Calib. Ref.:	ID8A023079	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.14	0.114

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	MBLK1S	Date Analyzed:	01/26/11 19:17
Lab Samp ID:	IPA044SB	Dilution Factor:	1
Lab File ID:	ID8A023058	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	NA
Calib. Ref.:	ID8A023056	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A209
METHOD: METHOO 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA044SB	IPA044SL	IPA044SC		
LAB FILE ID:	ID8A023058	I08A023059	ID8A023060		
DATIME EXTRCTD:	01/26/1111:15	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	NA
DATIME ANALYZD:	01/26/1119:17	01/26/1119:20	01/26/1119:23	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA044S	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	50.1	100	50	49.9	100	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A209
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.992	4.96		
SAMPLE ID:	CP093-S4-02-01	CP093-S4-02-01DL		
EMAX SAMP ID:	A195-03	A195-03J		
LAB FILE ID:	I08A023062	ID8A023063		
DATE EXTRACTED:	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	01/19/11 10:35
DATE ANALYZED:	01/26/1119:28	01/26/1119:31	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	1.71	1.97J	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A209
METHOD: METHOD 3050B/6010B

==========

MATRIX:	SOIL		% MOISTURE:	19.3
DILTN FACTR:	0.992	0.992		
SAMPLE ID:	CP093-S4-02-01			
CONTROL NO.:	A195-03	A195-03A		
LAB FILE ID:	ID8A023062	ID8A023061		
DATIME EXTRCTD:	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	01/19/11 10:35
DATIME ANALYZD:	01/26/1119:28	01/26/1119:25	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	1.71	61.5	61.3	97	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A209
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA044SB	1	NA	01/26/1119:17	01/26/1111:15	ID8A023058	ID8A023056	IPA044S	Method Blank
LCS1S	IPA044SL	1	NA	01/26/1119:20	01/26/1111:15	ID8A023059	ID8A023056	IPA044S	Lab Control Sample (LCS)
LCD1S	IPA044SC	1	NA	01/26/1119:23	01/26/1111:15	ID8A023060	ID8A023056	IPA044S	LCS Duplicate
CP093-S4-02-01AS	A195-03A	0.992	19.3	01/26/1119:25	01/26/1111:15	ID8A023061	ID8A023056	IPA044S	Analytical Spike Sample
CP093-S4-02-01	A195-03	0.992	NA	01/26/1119:28	01/26/1111:15	ID8A023062	ID8A023056	IPA044S	Field Sample
CP093-S4-02-01DL	A195-03J	4.96	NA	01/26/1119:31	01/26/1111:15	ID8A023063	ID8A023056	IPA044S	Diluted Sample
CB046-06A	A209-03	0.998	8.3	01/26/1119:53	01/26/1111:15	ID8A023071	ID8A023067	IPA044S	Field Sample
CB046-65-01	A209-04	0.958	21.2	01/26/1119:55	01/26/1111:15	ID8A023072	ID8A023067	IPA044S	Field Sample
CB046-66-01FD	A209-07	0.944	19.1	01/26/1120:04	01/26/1111:15	ID8A023075	ID8A023067	IPA044S	Field Sample
CP093-S3-01-01	A209-09	0.989	21.6	01/26/1120:10	01/26/1111:15	ID8A023077	ID8A023067	IPA044S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 09:55
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-06A	Date Analyzed:	01/26/11 19:53
Lab Samp ID:	A209-03	Dilution Factor:	0.998
Lab File ID:	ID8A023071	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	8.3
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	11.9	1.09	0.109
Zinc	1400	1.09	0.544

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 11:30
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-65-01	Date Analyzed:	01/26/11 19:55
Lab Samp ID:	A209-04	Dilution Factor:	0.958
Lab File ID:	ID8A023072	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	21.2
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.529J	1.22	0.122
Zinc	274	1.22	0.608

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 13:50
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CB046-66-01FD	Date Analyzed:	01/26/11 20:04
Lab Samp ID:	A209-07	Dilution Factor:	0.944
Lab File ID:	ID8A023075	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	19.1
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	13.0	1.17	0.117
Zinc	2770	1.17	0.583

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/22/11 10:00
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	CP093-S3-01-01	Date Analyzed:	01/26/11 20:10
Lab Samp ID:	A209-09	Dilution Factor:	0.989
Lab File ID:	ID8A023077	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	21.6
Calib. Ref.:	ID8A023067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.26	0.126
Zinc	83.8	1.26	0.631

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A209	Date Extracted:	01/26/11 11:15
Sample ID:	MBLK1S	Date Analyzed:	01/26/11 19:17
Lab Samp ID:	IPA044SB	Dilution Factor:	1
Lab File ID:	ID8A023058	Matrix :	SOIL
Ext Btch ID:	IPA044S	% Moisture :	NA
Calib. Ref.:	ID8A023056	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A209
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA044SB	IPA044SL	IPA044SC		
LAB FILE ID:	ID8A023058	ID8A023059	ID8A023060		
DATIME EXTRCTD:	01/26/1111:15	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	NA
DATIME ANALYZD:	01/26/1119:17	01/26/1119:20	01/26/1119:23	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA044S	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	50.1	100	50	49.9	100	0	80-120	20
Zinc	ND	50	55.6	111	50	55.6	111	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A209
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.992	4.96		
SAMPLE ID:	CP093-S4-02-01	CP093-S4-02-01DL		
EMAX SAMP ID:	A195-03	A195-03J		
LAB FILE ID:	ID8A023062	ID8A023063		
DATE EXTRACTED:	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	01/19/11 10:35
DATE ANALYZED:	01/26/1119:28	01/26/1119:31	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	1.71	1.97J	NA	10
Zinc	296	284	4	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A209
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	19.3
DILTN FACTR:	0.992	0.992		
SAMPLE ID:	CP093-S4-02-01			
CONTROL NO.:	A195-03	A195-03A		
LAB FILE ID:	ID8A023062	ID8A023061		
DATIME EXTRCTD:	01/26/1111:15	01/26/1111:15	DATE COLLECTED:	01/19/11 10:35
DATIME ANALYZD:	01/26/1119:28	01/26/1119:25	DATE RECEIVED:	01/22/11
PREP. BATCH:	IPA044S	IPA044S		
CALIB. REF:	ID8A023056	ID8A023056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	1.71	61.5	61.3	97	75-125
Zinc	296	61.5	424	208*	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/26/11 16:37

End Date: 1/26/11 21:34

SOP #	Rev. #
☐ EMAX-6010	6
☐ EMAX-6010C	0
☑ EMAX-200.7	1
☐ EMAX-	

Comments:

QC's OK

Book #: AD8-017

Instrument No.: D8

Analytical Batch: D8AD23

Analytical Sequence: S11A6010(V32)

Method File: 11A6010(V32)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-3101	S30	SM1B140203
S1	NA	S31	0204
S2	↓	ICV	2701
S3	↓	CCV	3001
S4	↓	ICSA	2002
S5	↓	ICSAB	1803
S6	↓	MLCV	NA
S7	↓	LLCV	↓
S8	↓	CRI/MRL	↓
S9	↓	MRL3	SM1B14-1201
S10	↓	SMRL4	↓ 1901
S11	↓	TH	
S12	↓	1/27/11	
S16	↓		
S17	↓		
S18	↓		
S20	SM1B12-100-05		
S21	SM1B14-01-01		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Analyzed By: TH

Date: 1/27/11

SEQUENCE FILE : ID8A023

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A023001	Blank	16:37	01/26/11	1.000
ID8A023002	S20	16:40	01/26/11	1.000
ID8A023003	S21	16:42	01/26/11	1.000
ID8A023004	S22	16:45	01/26/11	1.000
ID8A023005	S23	16:48	01/26/11	1.000
ID8A023006	S24	16:51	01/26/11	1.000
ID8A023007	S25	16:54	01/26/11	1.000
ID8A023008	S26	16:57	01/26/11	1.000
ID8A023009	S27	17:00	01/26/11	1.000
ID8A023010	S28	17:03	01/26/11	1.000
ID8A023011	S29	17:06	01/26/11	1.000
ID8A023012	S30	17:09	01/26/11	1.000
ID8A023013	S31	17:12	01/26/11	1.000
ID8A023014	ICV	17:14	01/26/11	1.000
ID8A023015	ICB	17:17	01/26/11	1.000
ID8A023016	MRLA2603	17:20	01/26/11	1.000
ID8A023017	MRLA2604	17:23	01/26/11	1.000
ID8A023018	ICSA1	17:25	01/26/11	1.000
ID8A023019	ICSAB1	17:28	01/26/11	1.000
ID8A023020	CCV1	17:31	01/26/11	1.000
ID8A023021	CCB1	17:34	01/26/11	1.000
ID8A023022	IPA045SB	17:37	01/26/11	1.000
ID8A023023	IPA045SL	17:39	01/26/11	1.000
ID8A023024	IPA045SC	17:42	01/26/11	1.000
ID8A023025	MDLV-01	17:45	01/26/11	1.000
ID8A023026	MDLV-02	17:47	01/26/11	1.000
ID8A023027	MDLV-03	17:50	01/26/11	1.000
ID8A023028	Blank	17:53	01/26/11	1.000
ID8A023029	CCV2	17:56	01/26/11	1.000
ID8A023030	CCB2	17:59	01/26/11	1.000
ID8A023031	IPA033WB	18:01	01/26/11	1.000
ID8A023032	IPA033WL	18:04	01/26/11	1.000
ID8A023033	IPA033WC	18:07	01/26/11	1.000
ID8A023034	MDLV-01	18:09	01/26/11	1.000
ID8A023035	MDLV-02	18:12	01/26/11	1.000
ID8A023036	BLK	18:16	01/26/11	1.000
ID8A023037	LCS	18:19	01/26/11	1.000
ID8A023038	Blank	18:22	01/26/11	1.000
ID8A023039	Blank	18:25	01/26/11	1.000
ID8A023040	CCV3	18:27	01/26/11	1.000
ID8A023041	CCB3	18:30	01/26/11	1.000
ID8A023042	A140-01A	18:33	01/26/11	1.000
ID8A023043	A140-01W	18:36	01/26/11	1.000
ID8A023044	A140-01J	18:39	01/26/11	5.000
ID8A023045	A140-01G	18:41	01/26/11	1.000
ID8A023046	A140-01H	18:44	01/26/11	1.000
ID8A023047	Blank	18:47	01/26/11	1.000
ID8A023048	CCV4	18:50	01/26/11	1.000
ID8A023049	CCB4	18:52	01/26/11	1.000
ID8A023050	A140-01A	18:55	01/26/11	5.000
ID8A023051	A140-01T	18:58	01/26/11	5.000
ID8A023052	A140-01J	19:01	01/26/11	25.00
ID8A023053	A140-01G	19:04	01/26/11	5.000
ID8A023054	A140-01H	19:06	01/26/11	5.000

ID8A023055	Blank	19:09	01/26/11	1.000
ID8A023056	CCV5	19:12	01/26/11	1.000
ID8A023057	CCB5	19:15	01/26/11	1.000
ID8A023058	IPA044S8	19:17	01/26/11	1.000
ID8A023059	IPA044SL	19:20	01/26/11	1.000
ID8A023060	IPA044SC	19:23	01/26/11	1.000
ID8A023061	A195-03A	19:25	01/26/11	1.000
ID8A023062	A195-03	19:28	01/26/11	1.000
ID8A023063	A195-03J	19:31	01/26/11	5.000
ID8A023064	A195-05	19:33	01/26/11	1.000
ID8A023065	A195-10	19:36	01/26/11	1.000
ID8A023066	Blank	19:39	01/26/11	1.000
ID8A023067	CCV6	19:42	01/26/11	1.000
ID8A023068	CCB6	19:44	01/26/11	1.000
ID8A023069	A209-01	19:47	01/26/11	1.000
ID8A023070	A209-02	19:50	01/26/11	1.000
ID8A023071	A209-03	19:53	01/26/11	1.000
ID8A023072	A209-04	19:55	01/26/11	1.000
ID8A023073	A209-05	19:58	01/26/11	1.000
ID8A023074	A209-06	20:01	01/26/11	1.000
ID8A023075	A209-07	20:04	01/26/11	1.000
ID8A023076	A209-08	20:07	01/26/11	1.000
ID8A023077	A209-09	20:10	01/26/11	1.000
ID8A023078	Blank	20:12	01/26/11	1.000
ID8A023079	CCV7	20:15	01/26/11	1.000
ID8A023080	CCB7	20:18	01/26/11	1.000
ID8A023081	A209-10	20:21	01/26/11	1.000
ID8A023082	A209-11	20:24	01/26/11	1.000
ID8A023083	A209-12	20:26	01/26/11	1.000
ID8A023084	A209-13	20:29	01/26/11	1.000
ID8A023085	A209-14	20:32	01/26/11	1.000
ID8A023086	Blank	20:35	01/26/11	1.000
ID8A023087	CCV8	20:38	01/26/11	1.000
ID8A023088	CCB8	20:40	01/26/11	1.000
ID8A023089	IPA035WB	20:43	01/26/11	1.000
ID8A023090	IPA035WL	20:46	01/26/11	1.000
ID8A023091	IPA035WC	20:49	01/26/11	1.000
ID8A023092	A498-01A	20:51	01/26/11	5.000
ID8A023093	A498-01T	20:54	01/26/11	5.000
ID8A023094	A498-01J	20:57	01/26/11	25.00
ID8A023095	A499-01T	21:00	01/26/11	5.000
ID8A023096	Blank	21:03	01/26/11	1.000
ID8A023097	ICSA2	21:05	01/26/11	1.000
ID8A023098	ICSAB2	21:08	01/26/11	1.000
ID8A023099	CCV10	21:11	01/26/11	1.000
ID8A023100	CCB10	21:14	01/26/11	1.000
ID8A023101	BLANK1	21:17	01/26/11	1.000
ID8A023102	BLANK2	21:20	01/26/11	1.000
ID8A023103	BLANK3	21:22	01/26/11	1.000
ID8A023104	BLANK4	21:25	01/26/11	1.000
ID8A023105	BLANK5	21:28	01/26/11	1.000
ID8A023106	BLANK6	21:31	01/26/11	1.000
ID8A023107	BLANK7	21:34	01/26/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A023 DATE : 01/26/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	98	103	99	99	98	100	100	97	92	100	98	95	106	93	92	99	98	96	101	101	103	98	92	98	98	98	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2603	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2604	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	96	----	----	----	93	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	104	106	108	98	101	97	93	96	94	107	92	93	115	96	92	103	98	103	105	111	109	103	84	99	98	98	106
CCV1	103	101	102	99	97	97	99	96	97	94	100	97	95	106	92	93	100	98	95	102	101	102	97	93	101	96	98	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	103	101	102	99	98	97	99	98	98	93	99	98	95	106	94	94	100	98	96	102	101	103	97	93	102	97	98	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LCS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	103	102	104	100	98	98	101	99	98	93	100	98	95	107	94	94	100	98	96	103	102	103	97	94	102	98	98	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	105	102	102	100	98	98	97	98	96	94	101	96	95	109	92	93	101	98	97	101	102	104	99	92	103	97	97	104
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	102	102	100	97	97	96	96	95	94	101	95	96	108	91	92	101	99	96	102	101	103	98	91	103	97	96	104
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	105	104	104	101	98	98	99	97	97	95	103	97	96	109	92	93	102	100	97	104	103	104	99	93	103	98	98	105
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	105	105	103	103	100	99	98	101	97	94	102	98	96	111*	95	95	102	99	99	103	103	106	100	93	106	100	97	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	105	103	104	101	98	98	99	98	97	94	101	98	95	108	93	93	101	98	96	103	102	103	98	93	103	98	98	105
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A499-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	102	---	----	----	----	----	----	99	----	----	----	96	----	----	99	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	101	108	107	110	99	104	94	97	94	92	109	94	93	117	96	92	103	97	106	106	112	112	105	83	103	100	96	104
CCV10	107	107	104	102	100	100	98	101	97	93	102	100	96	110	94	94	102	98	99	104	103	106	100	94	106	100	97	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A023 (WATER) DATE : 01/26/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	10.5	2.26	1.45	.250	.130	3.72	-.010	10.5	.360	-.070	.070	-3.37	.760	.280	14.1	.340	.440	-.160	74.7	-.960	.200	33.0	.080	.060	.080	.200	.170	3.74
MRLA2603	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2604	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.40	-.230	1.27	-.030	8.98	-4.50	----	1.94	-.750	.930	----	-1.58	6.22	----	1.19	-2.00	-.980	73.7	.300	.340	74.0	20.8	1.85	2.30	1.13	1.92	2.09
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	19.1	1.96	-.310	.380	.220	3.16	.120	20.3	.460	.090	.210	-.010	.520	.880	10.4	.480	.470	.060	112	-.350	.060	55.0	.080	.190	.440	.190	.250	.020
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	10.6	1.70	.660	.340	.180	3.09	.090	6.84	.240	-.050	.140	-1.88	.300	.550	6.60	.340	.460	-.120	47.4	.250	.080	29.2	.010	.520	.310	.170	.220	-.450
IPA033WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LCS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	13.1	1.69	.490	.280	.190	2.31	.100	4.83	.290	.040	.090	-.360	.380	-.140	11.8	.310	.530	-.070	57.8	-.650	.050	25.8	.010	.200	.190	-.220	.230	-.570
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	15.8	2.09	.740	.320	.180	2.94	.050	5.96	.470	.070	.450	.570	.480	.270	6.63	.310	.570	-.150	290	-.440	.120	217	.050	.630	.290	-.330	.190	-.530
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	13.2	2.38	.480	.270	.170	3.12	.090	4.25	.270	-.010	.420	-1.05	.250	.430	9.67	.370	.430	-.040	176	.060	.070	141	.040	.360	.510	-.020	.190	-.660
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	12.0	1.07	.190	.180	.120	2.24	.020	3.15	.350	-.040	.060	-1.14	.520	.460	4.88	.380	.500	-.200	81.5	-1.70	.100	50.8	.030	.130	.540	.280	.150	-.890
A209-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	10.2	2.15	.950	.270	.140	2.45	.000	7.73	.230	.110	.190	2.88	.880	.330	9.40	.410	.430	-.080	58.5	-.430	.100	26.8	.030	.050	.560	-.070	.100	-.670
A209-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	13.9	1.65	.810	.320	.190	2.17	.040	4.40	.370	.030	.380	1.72	.580	.780	11.7	.330	.450	.010	43.2	.270	.100	18.8	.020	-.130	-.030	.010	.150	-.450
IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A499-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	7.59	1.57	4.31	-.070	14.4	-3.97	----	1.87	-.610	1.26	----	-1.35	7.38	----	1.21	-2.03	-1.02	295	2.32	.610	547	20.0	2.07	2.91	2.39	1.45	1.95
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	15.1	2.61	.070	.210	.170	2.83	.030	10.3	.290	.100	.540	3.16	.260	.650	12.8	.570	.480	-.190	193	-1.12	.120	260	.060	.140	.150	.050	.100	-.520
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A023 (SOIL) DATE : 01/26/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	10.5	2.26	1.45	.250	.130	3.72	-.010	10.5	.360	-.070	.070	-3.37	.760	.280	14.1	.340	.440	-.160	74.7	-.960	.200	33.0	.080	.060	.080	.200	.170	3.74
MRLA2603	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2604	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.40	-.230	1.27	-.030	8.98	-4.50	----	1.94	-.750	.930	----	-1.58	6.22	----	1.19	-2.00	-.980	73.7	.300	.340	74.0	20.8	1.85	2.30	1.13	1.92	2.09
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	19.1	1.96	-.310	.380	.220	3.16	.120	20.3	.460	.090	.210	-.010	.520	.880	10.4	.480	.470	.060	112	-.350	.060	55.0	.080	.190	.440	.190	.250	.020
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	10.6	1.70	.660	.340	.180	3.09	.090	6.84	.240	-.050	.140	-1.88	.300	.550	6.60	.340	.460	-.120	47.4	.250	.080	29.2	.010	.520	.310	.170	.220	-.450
IPA033WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA033WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LCS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	13.1	1.69	.490	.280	.190	2.31	.100	4.83	.290	.040	.090	-.360	.380	-.140	11.8	.310	.530	-.070	57.8	-.650	.050	25.8	.010	.200	.190	-.220	.230	-.570
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	15.8	2.09	.740	.320	.180	2.94	.050	5.96	.470	.070	.450	.570	.480	.270	6.63	.310	.570	-.150	290	-.440	.120	217	.050	.630	.290	-.330	.190	-.530
A140-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A140-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	13.2	2.38	.480	.270	.170	3.12	.090	4.25	.270	-.010	.420	-1.05	.250	.430	9.67	.370	.430	-.040	176	.060	.070	141	.040	.360	.510	-.020	.190	-.660
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	12.0	1.07	.190	.180	.120	2.24	.020	3.15	.350	-.040	.060	-1.14	.520	.460	4.88	.380	.500	-.200	81.5	-1.70	.100	50.8	.030	.130	.540	.280	.150	-.890
A209-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	10.2	2.15	.950	.270	.140	2.45	.000	7.73	.230	.110	.190	2.88	.880	.330	9.40	.410	.430	-.080	58.5	-.430	.100	26.8	.030	.050	.560	-.070	.100	-.670
A209-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	13.9	1.65	.810	.320	.190	2.17	.040	4.40	.370	.030	.380	1.72	.580	.780	11.7	.330	.450	.010	43.2	.270	.100	18.8	.020	-.130	-.030	.010	.150	-.450
IPA035WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA035WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A498-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A499-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	7.59	1.57	4.31	-.070	14.4	-3.97	----	1.87	-.610	1.26	----	-1.35	7.38	----	1.21	-2.03	-1.02	295	2.32	.610	547	20.0	2.07	2.91	2.39	1.45	1.95
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	15.1	2.61	.070	.210	.170	2.83	.030	10.3	.290	.100	.540	3.16	.260	.650	12.8	.570	.480	-.190	193	-1.12	.120	260	.060	.140	.150	.050	.100	-.520
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A023001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8A023002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8A023003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8A023004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8A023005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8A023006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8A023007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8A023008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8A023009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8A023010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8A023011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8A023012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8A023013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8A023014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A023015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLA2603		ID8A023016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2604		ID8A023017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A023018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A023019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A023020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A023021			1	☒	3XIDL	None
22	20	2	8	2	QC	IPA045SB		ID8A023022			1	☒	1/2LOQ	None
23	21	2	9	2	QC	IPA045SL		ID8A023023			1	☒	LCS	None
24	22	2	10	2	QC	IPA045SC		ID8A023024			1	☒	LCS	None
25	23	2	11	2	Unk	MDLV-01	3050	ID8A023025			1	☒	unk	—
26	24	2	12	2	Unk	MDLV-02	3050	ID8A023026			1	☒	unk	—
27	25	2	1	3	Unk	MDLV-03	3050	ID8A023027			1	☒	unk	—
28	26	2	2	3	Blank	Blank		ID8A023028			1	☐		—
29	27	2	3	3	QC	CCV2		ID8A023029			1	☒	CCV	None
30	28	2	4	3	QC	CCB2		ID8A023030			1	☒	3XIDL	None
31	29	2	5	3	QC	IPA033WB		ID8A023031			1	☒	1/2LOQ	None
32	30	2	6	3	QC	IPA033WL		ID8A023032			1	☒	LCS	None
33	31	2	7	3	QC	IPA033WC		ID8A023033			1	☒	LCS	None
34	32	2	8	3	Unk	MDLV-01	3010	ID8A023034			1	☒	unk	—
35	33	2	9	3	Unk	MDLV-02	3010	ID8A023035			1	☒	unk	—
36	80	3	8	2	Unk	BLK	WIPE	ID8A023036			1	☒	unk	—
37	81	3	9	2	Unk	LCS	WIPE	ID8A023037			1	☒	unk	—
38	82	3	10	2	Blank	Blank		ID8A023038			1	☐		—
39	34	2	10	3	Blank	Blank		ID8A023039			1	☐		—

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	35	2	11	3	QC	CCV3		ID8A023040			1	☒	CCV	None
41	36	2	12	3	QC	CCB3		ID8A023041			1	☒	3XIDL	None
42	9	2	9	1	Unk	A140-01A	TCLP	ID8A023042			1	☒	unk	---
43	10	2	10	1	Unk	A140-01W	TCLP	ID8A023043			1	☒	unk	---
44	11	2	11	1	Unk	A140-01J	TCLP	ID8A023044			1	☒	unk	---
45	37	2	1	4	Unk	A140-01G	TCLP	ID8A023045			1	☒	unk	---
46	38	2	2	4	Unk	A140-01H	TCLP	ID8A023046			1	☒	unk	---
47	39	2	3	4	Blank	Blank		ID8A023047			1	☐		---
48	40	2	4	4	QC	CCV4		ID8A023048			1	☒	CCV	None
49	41	2	5	4	QC	CCB4		ID8A023049			1	☒	3XIDL	None
50	12	2	12	1	Unk	A140-01A	5X TCLP	ID8A023050			1	☒	unk	---
51	13	2	1	2	Unk	A140-01T	5X TCLP	ID8A023051			1	☒	unk	---
52	14	2	2	2	Unk	A140-01J	25X TCLP	ID8A023052			1	☒	unk	---
53	15	2	3	2	Unk	A140-01G	5X TCLP	ID8A023053			1	☒	unk	---
54	16	2	4	2	Unk	A140-01H	5X TCLP	ID8A023054			1	☒	unk	---
55	17	2	5	2	Blank	Blank		ID8A023055			1	☐		---
56	18	2	6	2	QC	CCV5		ID8A023056			1	☒	CCV	None
57	19	2	7	2	QC	CCB5		ID8A023057			1	☒	3XIDL	None
58	49	2	1	5	QC	IPA044SB		ID8A023058			1	☒	1/2LOQ	None
59	50	2	2	5	QC	IPA044SL		ID8A023059			1	☒	LCS	None
60	51	2	3	5	QC	IPA044SC		ID8A023060			1	☒	LCS	None
61	52	2	4	5	Unk	A195-03A	dried & sieved	ID8A023061			1	☒	unk	---
62	53	2	5	5	Unk	A195-03	dried & sieved	ID8A023062			1	☒	unk	---
63	54	2	6	5	Unk	A195-03J	dried & sieved	ID8A023063			1	☒	unk	---
64	55	2	7	5	Unk	A195-05	dried & sieved	ID8A023064			1	☒	unk	---
65	56	2	8	5	Unk	A195-10	dried & sieved	ID8A023065			1	☒	unk	---
66	57	2	9	5	Blank	Blank		ID8A023066			1	☐		---
67	58	2	10	5	QC	CCV6		ID8A023067			1	☒	CCV	None
68	59	2	11	5	QC	CCB6		ID8A023068			1	☒	3XIDL	None
69	60	2	12	5	Unk	A209-01		ID8A023069			1	☒	unk	---
70	61	3	1	1	Unk	A209-02		ID8A023070			1	☒	unk	---
71	62	3	2	1	Unk	A209-03		ID8A023071			1	☒	unk	---
72	63	3	3	1	Unk	A209-04		ID8A023072			1	☒	unk	---
73	64	3	4	1	Unk	A209-05		ID8A023073			1	☒	unk	---
74	65	3	5	1	Unk	A209-06		ID8A023074			1	☒	unk	---
75	66	3	6	1	Unk	A209-07		ID8A023075			1	☒	unk	---
76	67	3	7	1	Unk	A209-08		ID8A023076			1	☒	unk	---
77	68	3	8	1	Unk	A209-09		ID8A023077			1	☒	unk	---
78	69	3	9	1	Blank	Blank		ID8A023078			1	☐		---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	70	3	10	1	QC	CCV7		ID8A023079			1	☒	CCV	None
80	71	3	11	1	QC	CCB7		ID8A023080			1	☒	3XIDL	None
81	72	3	12	1	Unk	A209-10		ID8A023081			1	☒	unk	---
82	73	3	1	2	Unk	A209-11		ID8A023082			1	☒	unk	---
83	74	3	2	2	Unk	A209-12		ID8A023083			1	☒	unk	---
84	75	3	3	2	Unk	A209-13		ID8A023084			1	☒	unk	---
85	76	3	4	2	Unk	A209-14		ID8A023085			1	☒	unk	---
86	77	3	5	2	Blank	Blank		ID8A023086			1	☐		---
87	78	3	6	2	QC	CCV8		ID8A023087			1	☒	CCV	None
88	79	3	7	2	QC	CCB8		ID8A023088			1	☒	3XIDL	None
89	85	3	1	3	QC	IPA035WB		ID8A023089			1	☒	1/2LOQ	None
90	86	3	2	3	QC	IPA035WL		ID8A023090			1	☒	LCS	None
91	87	3	3	3	QC	IPA035WC		ID8A023091			1	☒	LCS	None
92	88	3	4	3	Unk	A498-01A	5X	ID8A023092			1	☒	unk	---
93	89	3	5	3	Unk	A498-01T	5X	ID8A023093			1	☒	unk	---
94	90	3	6	3	Unk	A498-01J	25X	ID8A023094			1	☒	unk	---
95	91	3	7	3	Unk	A499-01T	5X	ID8A023095			1	☒	unk	---
96	92	3	8	3	Blank	Blank		ID8A023096			1	☐		---
97	93	3	9	3	QC	ICSA2		ID8A023097			1	☒	ICSA	None
98	94	3	10	3	QC	ICSAB2		ID8A023098			1	☒	ICSAB	None
99	95	3	11	3	QC	CCV10		ID8A023099			1	☒	CCV	None
100	96	3	12	3	QC	CCB10		ID8A023100			1	☒	3XIDL	None
101	42	2	6	4	Unk	BLANK1		ID8A023101			1	☒	unk	---
102	43	2	7	4	Unk	BLANK2		ID8A023102			1	☒	unk	---
103	44	2	8	4	Unk	BLANK3		ID8A023103			1	☒	unk	---
104	45	2	9	4	Unk	BLANK4		ID8A023104			1	☒	unk	---
105	46	2	10	4	Unk	BLANK5		ID8A023105			1	☒	unk	---
106	47	2	11	4	Unk	BLANK6		ID8A023106			1	☒	unk	---
107	48	2	12	4	Unk	BLANK7		ID8A023107			1	☒	unk	---

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00137	.00002	-.00001	.00020	.00008	.00037	-.00005	.00024	-.00002	-.00095	Blank
2	S20					.95414		.13440				S20
3	S21					9.1677		1.2186				S21
4	S22				.50596						.16495	S22
5	S23				4.9066						1.7095	S23
6	S24						.10158					S24
7	S25						1.0548					S25
8	S26	.28876							.86466	.14470		S26
9	S27	10.534							7.9633	1.3920		S27
10	S28		.00562									S28
11	S29		.05622									S29
12	S30			.00145								S30
13	S31			.00585								S31
14	ICV	104.75	1.4691	1.0256	1.9847	1.4808	2.4452	1.9937	74.810	2.4328	.91800	ICV
15	ICB	.01047	.00226	.00145*	.00025	.00013	.00372	-.00001	.01052	.00036	-.00007	ICB
16	MRLA2603	.21877	.10128	.01017	.01053	.00989	.00978	.01059	1.0600	.01061	.00923	MRLA2603
17	MRLA2604	.22320	.05166	.01049	.00574	.00422	.09588	.00548	.57043	.01084	.00908	MRLA2604
18	ICSA1	395.02	.00840	-.00023	.00127	-.00003	.00898	-.00450	478.24	.00194	-.00075	ICSA1
19	ICSAB1	394.77	1.0358	1.0639	.53804	.49006	.50458	.96533	467.47	.47898	.46834	ICSAB1
20	CCV1	103.15	1.5116	1.0241	1.9809	1.4542	2.4200	1.9897	72.303	2.4332	.93529	CCV1
21	CCB1	.01906	.00196	-.00031	.00038	.00022	.00316	.00012*	.02033	.00046	.00009	CCB1
22	IPA045SB	.01165	.00155	-.00131	-.00001	.00003	.00108	-.00017	.00242	.00026	-.00004	IPA045SB
23	IPA045SL	5.0268	2.4188	.49424	.49592	.49562	.45990	.50505	50.814	.50724	.48400	IPA045SL
24	IPA045SC	5.0388	2.3986	.49594	.49567	.49831	.45720	.50544	50.673	.50866	.48320	IPA045SC
25	MDLV-01	.05434	.02902	.00123	.00241	.00205	.00904	.00088	.13357	.00251	.00184	MDLV-01
26	MDLV-02	.01522	.01062	-.00155	.00018	-.00001	.00023	-.00014	.00771	.00046	-.00007	MDLV-02
27	MDLV-03	.00910	.02073	-.00087	.00006	-.00003	.00002	-.00008	.01247	.00033	.00006	MDLV-03
28	Blank	.08404	.00108	.00110	.00306	.00120	.00100	.00165	.13621	.00220	.00081	Blank
29	CCV2	102.72	1.5188	1.0215	1.9857	1.4664	2.4347	1.9900	73.735	2.4444	.93005	CCV2
30	CCB2	.01062	.00170	.00066	.00034	.00018	.00309	.00009	.00684	.00024	-.00005	CCB2
31	IPA033WB	.01906	.00049	.00043	.00041	.00001	.00212	.00002	.03536	.00022	.00002	IPA033WB
32	IPA033WL	5.6878	2.6385	.55729	.50832	.51596	.55951	.54777	51.791	.51508	.46086	IPA033WL
33	IPA033WC	5.7902	2.6878	.56632	.51602	.52057	.57018	.55323	52.247	.51844	.46788	IPA033WC
34	MDLV-01	.08821	.03709	.00614	.00268	.00088	.01027	.00089	.14772	.00239	.00255	MDLV-01
35	MDLV-02	.01043	.03182	.00377	.00025	.00001	-.00047	-.00004	.03358	.00026	.00009	MDLV-02
36	BLK	.03368	.15833	.00000	.00521	-.00003	.00016	-.00005	2.3122	.00085	-.00003	BLK
37	LCS	5.3808	2.6868	.54226	.53500	.53088	.48790	.53104	56.191	.54246	.52289	LCS
38	Blank	.08564	.00224	.00082	.00295	.00122	.00148	.00164	.11093	.00223	.00079	Blank
39	Blank	.08748	.00170	.00156	.00303	.00118	.00083	.00164	.10575	.00217	.00072	Blank
40	CCV3	103.47	1.5291	1.0358	1.9909	1.4764	2.4375	2.0123	74.156	2.4578	.93128	CCV3
41	CCB3	.01310	.00169	.00049	.00028	.00019	.00231	.00010	.00483	.00029	.00004	CCB3
42	A140-01A	5.8871	2.6777	.59106	1.4294	.49584	1.3638	.51994	82.910	.51481	.49118	A140-01A
43	A140-01W	.04221	.00298	.00938	.94444	.00003	.87498	.00018	34.386	.00229	-.00066	A140-01W
44	A140-01J	.01447	.00219	.00118	.18643	-.00002	.16797	-.00001	6.9850	.00065	-.00025	A140-01J
45	A140-01G	5.9445	2.7640	.62431	1.4202	.50036	1.3718	.52588	84.454	.51658	.48497	A140-01G
46	A140-01H	5.9374	2.7977	.62345	1.4923	.49795	1.4423	.51367	86.517	.51184	.48541	A140-01H
47	Blank	.09751	.00286	.00141	.00314	.00121	.00328	.00156	.11242	.00209	.00071	Blank
48	CCV4	105.42	1.5345	1.0152	1.9990	1.4698	2.4428	1.9350	73.244	2.4074	.93936	CCV4
49	CCB4	.01582	.00209	.00074	.00032	.00018	.00294	.00005	.00596	.00047	.00007	CCB4
50	A140-01A	5.7463	2.5804	.55352	.70584	.51197	.67826	.52128	56.739	.51044	.49458	A140-01A
51	A140-01T	.02452	.00217	.00191	.18861	.00011	.16797	.00012	6.8866	.00073	-.00008	A140-01T
52	A140-01J	.01119	.00154	.00019	.03749	-.00003	.03264	.00000	1.3993	.00028	-.00003	A140-01J
53	A140-01G	1.1472	.51976	.11691	.28577	.10273	.26520	.10584	16.686	.10276	.09857	A140-01G
54	A140-01H	1.1176	.51941	.11605	.29445	.10086	.27674	.10536	17.157	.10235	.09655	A140-01H

55	Blank	.09117	.00212	.00170	.00311	.00117	.00177	.00158	.10692	.00204	.00080	Blank
56	CCV5	103.52	1.5295	1.0163	1.9993	1.4547	2.4314	1.9278	71.921	2.3863	.94055	CCV5
57	CCB5	.01318	.00238	.00048	.00027	.00017	.00312	.00009	.00425	.00027	-.00001	CCB5
58	IPA044SB	.00781	.00155	-.00057	.00016	-.00003	.00105	-.00016	.02938	.00037	.00004	IPA044SB
59	IPA044SL	5.3772	2.4867	.50502	.51511	.50580	.46802	.50085	51.612	.50993	.49845	IPAQ44SL
60	IPA044SC	5.2768	2.4726	.49848	.51124	.50284	.46650	.49929	51.452	.50959	.49985	IPA044SC
61	A195-03A	102.50	2.3939	.58732	1.6052	.50823	.48421	.49850	80.881	.66327	.58701	A195-03A
62	A195-03	96.813	.01293	.08717	1.1251	.00878	.03267	.01727	32.320	.17303	.09513	A195-03
63	A195-03J	20.014	.00365	.01610	.22331	.00218	.00606	.00398	6.4764	.03561	.01853	A195-03J
64	A195-05	98.178	.00816	.08508	1.1001	.00671	.02147	-.00193	7.4557	.24341	.07221	A195-05
65	A195-10	92.528	.01114	.08566	1.3132	.00801	.02625	-.00194	10.033	.17521	.08430	A195-10
66	Blank	.09548	.00159	.00117	.00389	.00107	.00083	.00139	.49382	.00200	.00064	Blank
67	CCV6	105.16	1.5596	1.0374	2.0226	1.4724	2.4568	1.9786	72.821	2.4205	.94714	CCV6
68	CCB6	.01202	.00107	.00019	.00018	.00012	.00224	.00002	.00315	.00035	-.00004	CCB6
69	A209-01	96.983	.00923	.08533	1.0040	.00743	.02660	.01768	25.554	.21975	.06614	A209-01
70	A209-02	92.840	.01445	.07928	1.3469	.00802	.03930	.14357	62.954	.37789	.09989	A209-02
71	A209-03	76.516	.00927	.06201	1.0729	.00644	.02138	.10946	38.768	.15376	.06442	A209-03
72	A209-04	156.90	.01273	.09589	.70715	.00923	.04878	.00435	16.575	.24599	.07234	A209-04
73	A209-05	196.32	.01356	.11915	1.3603	.01067	.06390	-.00673	19.488	.27534	.11863	A209-05
74	A209-06	161.20	.01598	.12904	1.3418	.01107	.06353	.10889	24.235	.28870	.11875	A209-06
75	A209-07	172.06	.01631	.11089	1.7790	.01059	.05816	.11179	25.639	.23329	.11404	A209-07
76	A209-08	158.42	.00999	.08249	1.3694	.00923	.03702	.00390	22.234	.18496	.11147	A209-08
77	A209-09	84.102	.00977	.07463	.94522	.00747	.03928	-.00270	14.322	.28253	.05844	A209-09
78	Blank	.06734	.00092	.00048	.00267	.00078	.00039	.00106	.12992	.00155	.00046	Blank
79	CCV7	105.16	1.5760	1.0322	2.0514	1.5002	2.4844	1.9560	75.817	2.4331	.94075	CCV7
80	CCB7	.01023	.00215	.00095	.00027	.00014	.00245	.00000	.00773	.00023	.00011	CCB7
81	A209-10	100.94	.01393	.10143	.95767	.00951	.05408	-.00591	11.220	.28456	.05110	A209-10
82	A209-11	87.092	.00918	.06729	1.0873	.00644	.02707	-.00172	16.590	.17526	.04998	A209-11
83	A209-12	105.22	.01089	.09663	.80968	.00883	.03225	-.00671	8.5218	.29343	.04831	A209-12
84	A209-13	93.444	.00911	.08458	1.2187	.00719	.02625	-.00339	14.269	.18978	.06154	A209-13
85	A209-14	112.88	.01352	.11646	1.1434	.00882	.04203	-.00648	10.068	.24509	.07105	A209-14
86	Blank	.05664	.00079	.00081	.00162	.00057	.00000	.00078	.03936	.00125	.00036	Blank
87	CCV8	104.87	1.5520	1.0358	2.0166	1.4710	2.4473	1.9775	73.284	2.4260	.93654	CCV8
88	CCB8	.01392	.00165	.00081	.00032	.00019	.00217	.00004	.00440	.00037	.00003	CCB8
89	IPA035WB	.00851	.00062	.00046	.00070	-.00001	.00150	.00000	.03651	.00021	-.00002	IPA035WB
90	IPA035WL	5.7000	2.6540	.53907	.51810	.51319	.51517	.51910	51.114	.50519	.47532	IPA035WL
91	IPA035WC	5.6905	2.6538	.53521	.51801	.51367	.51651	.51878	50.783	.50589	.47985	IPA035WC
92	A498-01A	6.4757	2.8809	.61291	.54657	.50390	1.2081	.51310	106.02	.51042	.48555	A498-01A
93	A498-01T	.29323	.00382	-.00116	.02133	.00050	.66727	.00085	56.144	.00308	.00021	A498-01T
94	A498-01J	.10197	.00265	.00045	.00555	.00054	.12381	.00078	11.423	.00154	.00032	A498-01J
95	A499-01T	.09346	.00139	-.00100	.01018	.00045	.65158	.00062	52.998	.00193	.00030	A499-01T
96	Blank	.08745	.00175	.00186	.00304	.00118	.00190	.00163	.11034	.00213	.00079	Blank
97	ICSA2	407.57	.00759	.00157	.00431	-.00007	.01442	-.00397	495.94	.00187	-.00061	ICSA2
98	ICSAB2	404.55	1.0811	1.0659	.54756	.49547	.52135	.93901	484.46	.47223	.46191	ICSAB2
99	CCV10	107.32	1.6010	1.0448	2.0475	1.4993	2.4930	1.9687	75.561	2.4297	.93258	CCV10
100	CCB10	.01506	.00261	.00007	.00021	.00017	.00283	.00003	.01033	.00029	.00010	CCB10
101	BLANK1	.00906	.00049	.00070	.00040	.00005	.00123	.00005	.15398	.00022	.00005	BLANK1
102	BLANK2	.08998	.00212	.00127	.00350	.00117	.00167	.00155	.10433	.00209	.00072	BLANK2
103	BLANK3	.06333	.00197	.00208	.00230	.00078	.00096	.00101	.12994	.00151	.00051	BLANK3
104	BLANK4	.06219	.00182	.00119	.00224	.00078	.00084	.00100	.12586	.00158	.00050	BLANK4
105	BLANK5	.06247	.00114	.00186	.00219	.00078	.00075	.00100	.12566	.00148	.00047	BLANK5
106	BLANK6	.06303	.00138	.00087	.00229	.00078	.00055	.00102	.12634	.00152	.00043	BLANK6
107	BLANK7	.06339	.00139	.00048	.00215	.00079	.00037	.00100	.12447	.00135	.00044	BLANK7
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00156	.00001	-.00008	.00002	.00000	.00001	.00010	-.00054	.00003	.00001	Blank
2	S20			.20427			.11798					S20
3	S21			1.9848			1.1481					S21
4	S22	.37813	.06044									S22
5	S23	3.6876	2.2932									S23
6	S24							.79374				S24
7	S25							7.8363				S25
8	S26								.81699	.32795		S26
9	S27								7.7196	3.3148		S27
10	S28					.10839						S28
11	S29					.44225						S29
12	S30				.02898						.00161	S30
13	S31				.14322						.00645	S31
14	ICV	2.5059	24.592	2.3759	.53246	56.075	2.3014	2.4635	2.4558	57.628	1.0082	ICV
15	ICB	.00007	-.00337	.00076	.00028	.01414	.00034	.00044*	-.00016	.07474	-.00096	ICB
16	MRLA2603	.00994	.21084	.01064	.01079	.97489	.00998	.01012	.01009	.95914	.00921	MRLA2603
17	MRLA2604	.01044	.10609	.00343	.10023	.19139	.00526	.00996	.01014	.95373	.00972	MRLA2604
18	ICSA1	.00093	186.22	-.00158	.00622	189.95	.00119	-.00200	-.00098	.07368	.00030	ICSA1
19	ICSAB1	.53687	184.24	.92832	1.1481	191.18	.45891	1.0270	.98289	77.355	1.0516	ICSAB1
20	CCV1	2.4987	24.178	2.3713	.53174	55.457	2.3194	2.5066	2.4595	56.980	1.0243	CCV1
21	CCB1	.00021	-.00001	.00052	.00088	.01041	.00048	.00047*	.00006	.11177	-.00035	CCB1
22	IPA045SB	-.00010	-.00001	-.00001	-.00037	.00627	.00054	.00025	.00025	.07975	-.00037	IPA045SB
23	IPA045SL	.50002	5.1283	.48367	.53179	47.848	.48188	.52751	.47061	48.334	.48325	IPA045SL
24	IPA045SC	.49886	5.1530	.48521	.53224	47.741	.48367	.52356	.47001	48.015	.48128	IPA045SC
25	MDLV-01	.00178	.03621	.00211	.01001	.10714	.00575	.00532	.00169	.25641	.00424	MDLV-01
26	MDLV-02	-.00035	.00120	.00066	.00056	.00419	.00084	.00011	-.00017	.05716	.00066	MDLV-02
27	MDLV-03	-.00029	.00879	.00087	.00044	.00951	.00111	.00007	-.00022	.27303	.00084	MDLV-03
28	Blank	.00176	.02055	.00249	.00081	.04613	.00223	.00166	.00203	.04554	-.00013	Blank
29	CCV2	2.4767	24.389	2.3746	.53158	56.160	2.3394	2.4906	2.4457	57.466	1.0157	CCV2
30	CCB2	.00014	-.00188	.00030	.00055	.00660	.00034	.00046*	-.00012	.04742	.00025	CCB2
31	IPA033WB	.00002	-.00001	.00083	.00022	.00859	.00023	-.00013	-.00003	.01658	-.00159	IPA033WB
32	IPA033WL	.52007	5.3791	.48870	.54296	49.183	.48848	.47601	.49611	50.221	.58694	IPA033WL
33	IPA033WC	.53075	5.4261	.49377	.55144	49.663	.49312	.48618	.50354	51.087	.59504	IPA033WC
34	MDLV-01	.00228	.05631	.00414	.10338	.11029	.00353	.00537	.00263	.16292	.00455	MDLV-01
35	MDLV-02	.00014	.00935	.00359	.10096	.00707	.00026	.00001	.00054	.92164	-.00129	MDLV-02
36	BLK	.00038	.04201	.00058	.00029	.17747	.00279	.00025	.00099	.17845	.00520	BLK
37	LCS	.54483	5.4805	.51235	.00108	50.826	.51068	.57012	.50394	51.313	.56343	LCS
38	Blank	.00190	.01927	.00249	.00038	.05905	.00221	.00156	.00179	.08781	.00039	Blank
39	Blank	.00194	.01870	.00263	.00056	.04572	.00215	.00158	.00177	.04906	-.00078	Blank
40	CCV3	2.4968	24.534	2.3745	.53321	56.675	2.3555	2.5007	2.4497	57.319	1.0284	CCV3
41	CCB3	.00009	-.00036	.00038	-.00014	.01184	.00031	.00053*	-.00007	.05780	-.00065	CCB3
42	A140-01A	.55995	5.3116	.49542	.46084	46.394	.56993	.52107	.47662	235.22	.56716	A140-01A
43	A140-01W	.00152	.14701	.00165	.46963	.06155	.09183	.00009	.00070	189.08	.00040	A140-01W
44	A140-01J	.00052	.02956	.00026	.08580	.01037	.01854	-.00007	-.00022	35.902	-.00080	A140-01J
45	A140-01G	.55868	5.4209	.49203	.45515	47.373	.57162	.52335	.47446	235.44	.56015	A140-01G
46	A140-01H	.55745	5.3248	.49162	.49707	47.054	.57277	.53244	.47424	250.42	.55678	A140-01H
47	Blank	.00228	.01825	.00224	.00133	.04559	.00209	.00168	.00182	.75477	.00039	Blank
48	CCV4	2.5323	24.079	2.3874	.54387	55.481	2.3296	2.5350	2.4623	58.121	1.0138	CCV4
49	CCB4	.00045	.00057	.00048	.00027	.00663	.00031	.00057*	-.00015	.29038*	-.00044	CCB4
50	A140-01A	.54493	5.2762	.50268	.08949	46.957	.50517	.52166	.47949	86.291	.54516	A140-01A
51	A140-01T	.00080	.02873	.00095	.08629	.02012	.01858	.00021	.00010	35.803	-.00009	A140-01T
52	A140-01J	.00042	.00648	-.00016	.01666	.00130	.00408	.00005	-.00022	6.9251	-.00055	A140-01J
53	A140-01G	.10901	1.0805	.10091	.08484	9.2510	.11502	.10475	.09666	44.765	.10443	A140-01G
54	A140-01H	.10655	1.0716	.09933	.08953	9.1943	.11492	.10387	.09485	47.203	.10461	A140-01H

55	Blank	.00214	.01860	.00244	.00038	.04254	.00193	.00156	.00190	.28803	.00017	Blank
56	CCV5	2.5209	23.822	2.3898	.53900	54.476	2.3030	2.5343	2.4704	57.672	1.0231	CCV5
57	CCB5	.00042	-.00105	.00025	.00043	.00967	.00037	.00043*	-.00004	.17571*	.00006	CCB5
58	IPA044SB	.00012	.00656	.00002	.00042	.00112	.00020	.00020	-.00037	.16901	.00058	IPA044SB
59	IPA044SL	.52449	5.2080	.49956	.00054*	48.099	.49011	.54553	.48473	50.070	.49391	IPA044SL
60	IPA044SC	.52093	5.1376	.49793	.00046*	48.191	.48806	.54725	.48509	49.933	.48804	IPA044SC
61	A195-03A	.65879	202.73	1.5168	.05317	53.588	3.6416	.53489	.59589	57.121	.50110	A195-03A
62	A195-03	.12482	204.58	1.0659	.05134	7.4582	3.2854	.00811	.12724	8.2182	.00787	A195-03
63	A195-03J	.02499	41.703	.21545	.00984	1.5142	.66407	.00206	.02481	1.6145	.00048	A195-03J
64	A195-05	.06194	180.49	-.29003	.05007	6.2481	2.9187	.00880	.07872	5.6247	.00466	A195-05
65	A195-10	.07570	222.39	.26430	.04573	6.0989	3.6017	.00902	.08664	6.3037	.00773	A195-10
66	Blank	.00227	.03655	.00194	.00060	.04261	.00260	.00137	.00177	.07626	.00012	Blank
67	CCV6	2.5697	24.310	2.4014	.54398	55.394	2.3293	2.5606	2.4898	57.968	1.0423	CCV6
68	CCB6	.00006	-.00114	.00052	.00046	.00488	.00038	.00050*	-.00020	.08154	-.00170	CCB6
69	A209-01	.07326	214.82	.79299	.06226	8.1603	2.7082	.00839	.09407	5.6182	.00658	A209-01
70	A209-02	.13029	257.84	2.6391	.07170	12.022	4.7422	.01237	.24225	9.4465	.00716	A209-02
71	A209-03	.09049	162.86	.86516	.05467	7.5370	2.0873	.00597	.10194	5.4698	.00497	A209-03
72	A209-04	.09365	294.54	.28096	.10153	14.391	2.1875	.00967	.15226	9.6712	.00871	A209-04
73	A209-05	.11315	363.80	.12609	.13115	17.396	1.8570	.01224	.18076	11.616	.01252	A209-05
74	A209-06	.18624	331.44	1.8761	.11218	12.414	3.3760	.00960	.24779	10.077	.00986	A209-06
75	A209-07	.18025	301.79	1.8692	.12423	13.849	3.2077	.00859	.24536	10.833	.01029	A209-07
76	A209-08	.09543	238.11	.19144	.10955	13.660	2.7258	.00726	.17861	9.3153	.00653	A209-08
77	A209-09	.07386	224.44	.23796	.04811	5.0622	2.5805	.00877	.11953	5.9983	.00675	A209-09
78	Blank	.00146	.03104	.00214	.00050	.02431	.00201	.00102	.00117	.03386	.00003	Blank
79	CCV7	2.5452	24.621	2.4082	.55265*	56.735	2.3652	2.5505	2.4742	59.393	1.0311	CCV7
80	CCB7	.00019	.00288	.00088	.00033	.00940	.00041	.00043*	-.00008	.05848	-.00043	CCB7
81	A209-10	.07387	349.72	.15177	.05524	5.1295	2.3332	.01126	.12530	6.1226	.00695	A209-10
82	A209-11	.06781	190.57	.18614	.04544	5.5940	2.4061	.00690	.11453	5.8221	.00386	A209-11
83	A209-12	.05731	272.70	.13021	.05329	5.0129	1.4988	.01081	.08535	5.6971	.00660	A209-12
84	A209-13	.05748	219.04	.19000	.04811	5.9703	3.4262	.00927	.07018	5.9838	.00561	A209-13
85	A209-14	.05565	298.36	.15330	.05942	6.4933	2.8673	.01242	.07995	6.5557	.00734	A209-14
86	Blank	.00114	.03006	.00118	.00028	.01989	.00148	.00074	.00077	.02183	.00041	Blank
87	CCV8	2.5374	24.482	2.3840	.53871	55.672	2.3270	2.5347	2.4617	57.612	1.0343	CCV8
88	CCB8	.00038	.00172	.00058	.00078	.01172	.00033	.00045*	.00001	.04323	.00027	CCB8
89	IPA035WB	.00016	.01617	.00048	.00026	.00678	.00048	-.00005	.00021	.00494	-.00063	IPA035WB
90	IPA035WL	.52612	5.3378	.49457	.00075*	47.970	.48313	.51314	.50888	49.135	.53414	IPA035WL
91	IPA035WC	.52784	5.3083	.49822	.00060*	47.718	.48246	.51672	.51354	48.946	.53313	IPA035WC
92	A498-01A	.65012	5.5580	.49297	.03160	206.59	.53586	.53318	.49936	114.43	.60608	A498-01A
93	A498-01T	.07288	.29181	.00148	.03068	157.76	.05433	.00191	.03088	59.413	.00052	A498-01T
94	A498-01J	.01461	.06097	.00131	.00637	30.630	.01179	.00103	.00690	10.755	.00083	A498-01J
95	A499-01T	.11506	.18622	.00092	.02962	148.47	.01719	.00128	.03086	56.838	.00023	A499-01T
96	Blank	.00230	.02007	.00249	.00135	.06366	.00206	.00153	.00195	.40071	.00085	Blank
97	ICSA2	.00126	192.16	-.00135	.00738	197.68	.00121	-.00203	-.00102	.29509	.00232	ICSA2
98	ICSA82	.54457	187.73	.92892	1.1682	191.91	.45778	1.0336	.97352	79.752	1.0605	ICSAB2
99	CCV10	2.5594	25.049	2.3939	.54894	56.659	2.3513	2.5465	2.4551	59.245	1.0440	CCV10
100	CCB10	.00054	.00316	.00026	.00065	.01278	.00057*	.00048*	-.00019	.19341*	-.00112	CCB10
101	BLANK1	.00043	.00093	.00040	.00010	.00957	.00029	.00012	.00003	.12796	-.00126	BLANK1
102	BLANK2	.00244	.02233	.00223	.00072	.04467	.00203	.00165	.00186	.13760	.00042	BLANK2
103	BLANK3	.00154	.01242	.00153	.00013	.03141	.00146	.00106	.00108	.10119	-.00059	BLANK3
104	BLANK4	.00180	.01407	.00186	.00054	.03477	.00153	.00101	.00118	.10109	.00011	BLANK4
105	BLANK5	.00159	.01360	.00108	.00078	.02786	.00154	.00101	.00109	.08522	.00060	BLANK5
106	BLANK6	.00162	.01215	.00152	.00090	.02766	.00156	.00102	.00117	.07278	.00020	BLANK6
107	BLANK7	-.00166	.01376	.00212	.00037	.02985	.00123	.00107	.00119	.07666	-.00048	BLANK7
DX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00009	.00124	-.00008	-.00002	.00007	.00002	-.00012	.00081	Blank
2	S20									S20
3	S21									S21
4	S22							.15667		S22
5	S23							1.5551		S23
6	S24		1.0964							S24
7	S25		6.3431							S25
8	S26									S26
9	S27									S27
10	S28				.00665					S28
11	S29				.06318					S29
12	S30	.04597		.13530		.02462	.01653		.59228	S30
13	S31	.22724		.66805		.11998	.08216		5.6941	S31
14	ICV	.50548	62.062	.48967	2.2981	.49233	.49040	1.4635	2.6135	ICV
15	ICB	.00020	.03301	.00008	.00006	.00008	.00020	.00017	.00374	ICB
16	MRLA2603	.01015	1.0338	.01012	.01089	.00034	.00963	.01026	.02258	MRLA2603
17	MRLA2604	.01049	.51251	.01034	.01096	.01030	.01006	.01036	.01353*	MRLA2604
18	ICSA1	.00034	.07399	.02077	.00185	.00230	.00113	.00192	.00209	ICSA1
19	ICSAB1	1.1053	81.743	.51649	.84002	.99423	.97926	.49246	1.0631	ICSAB1
20	CCV1	.50594	61.032	.48501	2.3202	.50591	.48153	1.4714	2.6333	CCV1
21	CCB1	.00006	.05504	.00008	.00019	.00044	.00019	.00025	.00002	CCB1
22	IPA045SB	-.00009	.03674	-.00006	-.00104	.03852	.00019	.00016	.00050	IPA045SB
23	IPA045SL	.48839	51.908	.48685	.46323	.53848	.50191	.50666	.55049	IPA045SL
24	IPA045SC	.49066	51.514	.48193	.46468	.53532	.50091	.50725	.55170	IPA045SC
25	MDLV-01	.00203	.16196	.00195	.00394	.04907	.01023	.00494	.00667	MDLV-01
26	MDLV-02	-.00002	.02830	-.00001	-.00071	.03857	-.00018	.00015	.00176	MDLV-02
27	MDLV-03	.00004	.02365	.00002	-.00095	.03859	-.00003	.00007	.00131	MDLV-03
28	Blank	.00056	.05208	.00050	.00269	.00075	.00062	.00129	.00647	Blank
29	CCV2	.50727	61.514	.48734	2.3165	.51104	.48381	1.4637	2.6433	CCV2
30	CCB2	.00008	.02917	.00001	.00052	.00031	.00017	.00022	-.00045	CCB2
31	IPA033WB	.00022	.01120	.00007	.00038	-.00008	-.00005	.00017	.00270	IPA033WB
32	IPA033WL	.53669	53.545	.48030	.52732	.48475	.50541	.51016	.54286	IPA033WL
33	IPA033WC	.54380	54.345	.49067	.53684	.49289	.51712	.51689	.54680	IPA033WC
34	MDLV-01	.00390	.14711	.00107	.00579	.00548	.00541	.00469	.00802	MDLV-01
35	MDLV-02	.00011	.28890	.00009	-.00007	.00012	.00003	.00002	.00371	MDLV-02
36	BLK	-.00014	5.0512	.00603	-.00456	.03560	.43588	.00017	.03216	BLK
37	LCS	.51640	60.211	.52476	.47953	.56712	.88895	.53997	.62529	LCS
38	Blank	.00046	.07022	.00054	.00268	.00078	.00082	.00139	.00458	Blank
39	Blank	.00040	.05160	.00050	.00204	.00073	.00035	.00103	.00478	Blank
40	CCV3	.51007	61.537	.48704	2.3501	.50952	.48819	1.4745	2.6464	CCV3
41	CCB3	.00005	.02576	.00001	.00020	.00019	-.00022	.00023	-.00057	CCB3
42	A140-01A	.57105	844.75*	1.5452	.45634	.49774	.49821	.51899	.60246	A140-01A
43	A140-01W	.00008	816.98*	1.0986	.00083	-.00041	.00086	.00041	.01978	A140-01W
44	A140-01J	.00011	168.83	.21740	.00087	.00064	.00006	.00008	.00423	A140-01J
45	A140-01G	.58795	847.33*	1.5574	.45635	.51083	.51366	.51729	.59778	A140-01G
46	A140-01H	.58930	893.41*	1.6478	.44724	.51590	.51860	.51193	.58272	A140-01H
47	Blank	.00055	.69342	.00066	.00202	.00058	.00054	.00127	.00447	Blank
48	CCV4	.51032	62.393	.49268	2.2899	.51514	.48627	1.4516	2.5943	CCV4
49	CCB4	.00012	.21739*	.00005	.00063	.00029	-.00033	.00019	-.00053	CCB4
50	A140-01A	.52784	223.07	.69632	.48203	.50125	.50435	.51777	.56163	A140-01A
51	A140-01T	.00012	170.14	.21894	.00016	.00031	.00017	.00030	.00378	A140-01T
52	A140-01J	-.00004	34.216	.04357	.00037	.00047	-.00006	.00008	.00094	A140-01J
53	A140-01G	.10571	175.99	.31233	.09857	.10295	.10251	.10325	.11642	A140-01G
54	A140-01H	.10455	186.20	.32590	.09691	.10201	.10160	.10205	.11373	A140-01H

55	Blank	.00046	.27602	.00058	.00259	.00091	.00051	.00123	.00494	Blank
56	CCV5	.50585	61.786	.49171	2.2745	.51312	.48311	1.4461	2.6024	CCV5
57	CCB5	.00007	.14093*	.00004	.00036	.00051	-.00002	.00019	-.00066	CCB5
58	IPA044SB	-.00010	.14065	.00003	-.00125	.03237	.00001	.00019	.00220	IPA044SB
59	IPA044SL	.50191	53.841	.50029	.46809	.54970	.51507	.51331	.55599	IPA044SL
60	IPA044SC	.50229	53.532	.50024	.46440	.54835	.51572	.51346	.55622	IPA044SC
61	A195-03A	.49671	53.084	.56371	.44029	.53108	1.4544	.77010	3.4469	A195-03A
62	A195-03	-.00007	.84918	.08754	-.00019	.04168	.98807	.27832	2.9799	A195-03
63	A195-03J	.00033	.20804	.01740	.00133	.00856	.19466	.05590	.57270	A195-03J
64	A195-05	-.00037	.54204	.07394	-.00085	.04009	1.1930	.35708	.48297	A195-05
65	A195-10	-.00015	.50237	.08672	-.00118	.04110	1.0156	.30139	.57371	A195-10
66	Blank	.00040	.07082	.00057	.00189	.00133	.00072	.00119	.03306	Blank
67	CCV6	.51313	62.194	.49451	2.3288	.51640	.48923	1.4724	2.6289	CCV6
68	CCB6	.00010	.05079	.00003	.00013	.00054	.00028	.00015	-.00089	CCB6
69	A209-01	-.00014	.45109	.09859	-.00054	.04651	.84215	.34594	5.0455	A209-01
70	A209-02	.00002	.46537	.14239	-.00051	.04882	.65472	.29906	20.772	A209-02
71	A209-03	-.00015	.43563	.09528	-.00014	.05136	.62481	.25642	12.820	A209-03
72	A209-04	.00023	.84048	.12528	.00253	.04315	1.0459	.37260	2.2574	A209-04
73	A209-05	.00020	.86494	.16854	.00214	.04415	1.1009	.43859	.34394	A209-05
74	A209-06	.00004	.55836	.13937	.00071	.04719	.94971	.41967	23.097	A209-06
75	A209-07	-.00003	.60401	.15055	.00238	.04785	.97665	.39402	23.753	A209-07
76	A209-08	-.00018	.54671	.14403	.00029	.04551	.84594	.33700	2.1936	A209-08
77	A209-09	-.00021	.23234	.06776	.00041	.04119	1.1955	.33893	.66427	A209-09
78	Blank	.00046	.03436	.00035	.00105	.00096	.00081	.00085	.00915	Blank
79	CCV7	.51567	63.662	.50250	2.3175	.52838	.50048	1.4538	2.6321	CCV7
80	CCB7	.00010	.02684	.00003	.00005	.00056	-.00007	.00010	-.00067	CCB7
81	A209-10	-.00007	.22140	.07390	.00133	.04296	1.2052	.39245	.42383	A209-10
82	A209-11	-.00021	.20375	.08186	.00054	.04150	1.0293	.25216	.71414	A209-11
83	A209-12	-.00003	.18112	.06604	.00158	.04589	1.0118	.39273	.35157	A209-12
84	A209-13	-.00025	.22035	.08593	-.00084	.04145	1.0432	.36176	.55546	A209-13
85	A209-14	-.00018	.23067	.09092	.00026	.04177	1.0655	.44131	.29355	A209-14
86	Blank	.00015	.01341	.00021	.00122	.00026	.00056	.00069	.00132	Blank
87	CCV8	.51038	61.760	.49134	2.3348	.51716	.48981	1.4648	2.6154	CCV8
88	CCB8	.00010	.01877	.00002	-.00013	-.00003	.00001	.00015	-.00045	CCB8
89	IPA035WB	.00001	.00505	.00001	.00015	.00020	.00005	.00007	.00288	IPA035WB
90	IPA035WL	.52240	52.849	.48646	.50560	.50927	.51900	.50671	.53651	IPA035WL
91	IPA035WC	.52420	52.678	.48743	.50188	.51424	.51959	.50732	.53795	IPA035WC
92	A498-01A	.60616	1363 9*	1.4785	.45157	.51145	.51299	.51268	.71497	A498-01A
93	A498-01T	.00036	1307.5*	.99467	.00023	.00175	.00153	.00055	.14767	A498-01T
94	A498-01J	.00035	270.09	.19258	.00055	.00069	.00033	.00042	.03324	A498-01J
95	A499-01T	.00037	1226.6*	.93609	-.00021	.00081	.00197	.00056	.03988	A499-01T
96	Blank	.00051	.77030	.00056	.00261	.00079	.00046	.00111	.00444	Blank
97	ICSA2	.00061	.54678	.01996	.00207	.00291	.00239	.00145	.00195	ICSA2
98	ICSAB2	1.1177	83.888	.52656	.83366	1.0261	1.0006	.47939	1.0405	ICSAB2
99	CCV10	.51549	63.360	.49802	2.3506	.52854	.50168	1.4537	2.6129	CCV10
100	CCB10	.00012	.25962*	.00006	.00014	.00015	.00005	.00010	-.00052	CCB10
101	BLANK1	.00002	.18517	.00003	-.00033	.00011	.00025	.00009	.00806	BLANK1
102	BLANK2	.00048	.21768	.00053	.00244	.00045	.00039	.00126	.00453	BLANK2
103	BLANK3	.00055	.18074	.00036	.00172	.00091	.00016	.00076	.00666	BLANK3
104	BLANK4	.00040	.16059	.00035	.00143	.00084	.00038	.00085	.00632	BLANK4
105	BLANK5	.00039	.14508	.00037	.00186	.00089	.00005	.00082	.00639	BLANK5
106	BLANK6	.00048	.13119	.00033	.00178	.00116	.00007	.00085	.00637	BLANK6
107	BLANK7	.00041	.12169	.00036	.00154	.00105	.00035	.00080	.00670	BLANK7
IDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments: DIGESTOR D

Book #: EIP-098
Batch: IPA044S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

1/26/11 Start	Temp	1/26/11 End	Temp
1115	90°c	1515	90°c

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-02-11	0.5
LCS-2	12	0.5
LCS-3	13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101983555

Prepared By: LK/NT
Standard Added By: LK/NT Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA044S01	IPA044SB	1	g	1/26/11 9:35	100	1	100	1	
11IPA044S02	IPA044SL	1	g	1/26/11 9:35	100	1	100	1	
11IPA044S03	IPA044SC	1	g	1/26/11 9:35	100	1	100	1	
11IPA044S04	A195-03	1.008	g	1/26/11 9:37	100	1	100	0.992	DRIED AND SIEVED
11IPA044S05	A195-05	1.059	g	1/26/11 9:38	100	1	100	0.944	DRIED AND SIEVED
11IPA044S06	A195-10	1.074	g	1/26/11 9:38	100	1	100	0.931	DRIED AND SIEVED
11IPA044S07	A209-01	1.071	g	1/26/11 9:49	100	1	100	0.934	✓
11IPA044S08	A209-02	1.088	g	1/26/11 9:51	100	1	100	0.919	✓
11IPA044S09	A209-03	1.002	g	1/26/11 9:53	100	1	100	0.998	✓
11IPA044S10	A209-04	1.044	g	1/26/11 9:53	100	1	100	0.958	✓
11IPA044S11	A209-05	1.034	g	1/26/11 9:55	100	1	100	0.967	✓
11IPA044S12	A209-06	1.076	g	1/26/11 9:57	100	1	100	0.929	✓
11IPA044S13	A209-07	1.059	g	1/26/11 9:58	100	1	100	0.944	✓
11IPA044S14	A209-08	1.04	g	1/26/11 9:59	100	1	100	0.962	✓
11IPA044S15	A209-09	1.011	g	1/26/11 10:01	100	1	100	0.989	✓
11IPA044S16	A209-10	1.072	g	1/26/11 10:02	100	1	100	0.933	✓
11IPA044S17	A209-11	1.082	g	1/26/11 10:04	100	1	100	0.924	✓
11IPA044S18	A209-12	1.02	g	1/26/11 10:06	100	1	100	0.98	✓
11IPA044S19	A209-13	1.087	g	1/26/11 10:08	100	1	100	0.92	✓
11IPA044S20	A209-14	1.067	g	1/26/11 10:09	100	1	100	0.937	✓
11IPA044S21	A169-01	1.079	g	1/26/11 10:10	100	1	100	0.927	
11IPA044S22	A169-02	1.044	g	1/26/11 10:11	100	1	100	0.958	
11IPA044S23	A169-03	1.02	g	1/26/11 10:12	100	1	100	0.98	
11IPA044S24	A169-03M	1.022	g	1/26/11 10:12	100	1	100	0.978	
11IPA044S25	A169-03S	1.024	g	1/26/11 10:13	100	1	100	0.977	

LK 1/26/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/26/11 11:15 Prepared By: LK/NT

☑ Digestion Ended @ 1/26/11 15:15 Checked By: TH

Comments: Date 1/26/2011

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A209

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of four (4) soil samples were received on 01/25/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA048SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
All samples were oven-dried and passed through sieve # 60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A209
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA048SB	1	NA	01/28/1120:09	01/27/1111:25	ID8A028073	ID8A028071	IPA048S	Method Blank
LCS1S	IPA048SL	1	NA	01/28/1120:12	01/27/1111:25	ID8A028074	ID8A028071	IPA048S	Lab Control Sample (LCS)
LCD1S	IPA048SC	1	NA	01/28/1120:15	01/27/1111:25	ID8A028075	ID8A028071	IPA048S	LCS Duplicate
CP093-S3-08-02	A219-11	0.942	18.1	01/28/1120:20	01/27/1111:25	ID8A028077	ID8A028071	IPA048S	Field Sample
CP093-S3-08-02DL	A219-11J	4.71	18.1	01/28/1120:23	01/27/1111:25	ID8A028078	ID8A028071	IPA048S	Diluted Sample
CB046-D6A	A209-03	0.920	NA	01/28/1121:18	01/27/1111:25	ID8A028098	ID8A028095	IPA048S	Field Sample
CB046-65-01	A209-04	0.925	NA	01/28/1121:21	01/27/1111:25	ID8A028099	ID8A028095	IPA048S	Field Sample
CB046-66-01FD	A209-07	0.964	NA	01/28/1121:24	01/27/1111:25	ID8A028100	ID8A028095	IPA048S	Field Sample
CP093-S3-01-01	A209-09	0.985	NA	01/28/1121:27	01/27/1111:25	ID8A028101	ID8A028095	IPA048S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 09:55
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/27/11 11:25
Sample ID:	CB046-06A	Date Analyzed:	01/28/11 21:18
Lab Samp ID:	A209-03	Dilution Factor:	0.920
Lab File ID:	ID8A028098	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	NA
Calib. Ref.:	ID8A028095	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	85.7	0.920	0.184

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 11:30
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/27/11 11:25
Sample ID:	CB046-65-01	Date Analyzed:	01/28/11 21:21
Lab Samp ID:	A209-04	Dilution Factor:	0.925
Lab File ID:	ID8A028099	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	NA
Calib. Ref.:	ID8A028095	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	22.6	0.925	0.185

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/21/11 13:50
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/27/11 11:25
Sample ID:	CB046-66-01FD	Date Analyzed:	01/28/11 21:24
Lab Samp ID:	A209-07	Dilution Factor:	0.964
Lab File ID:	ID8A028100	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	NA
Calib. Ref.:	ID8A028095	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	162	0.964	0.193

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/22/11 10:00
Project	: TAR CREEK OU4	Date Received:	01/25/11
SDG NO.	: 11A209	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-01-01	Date Analyzed:	01/28/11 21:27
Lab Samp ID:	A209-09	Dilution Factor:	0.985
Lab File ID:	ID8A028101	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	NA
Calib. Ref.:	ID8A028095	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	25.1	0.985	0.197

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/27/11
SDG NO.	: 11A209	Date Extracted:	01/27/11 11:25
Sample ID:	MBLK1S	Date Analyzed:	01/28/11 20:09
Lab Samp ID:	IPA048SB	Dilution Factor:	1
Lab File ID:	ID8A028073	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	NA
Calib. Ref.:	ID8A028071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A209
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA048SB	IPA048SL	IPA048SC		
LAB FILE ID:	ID8A028073	ID8A028074	ID8A028075		
DATIME EXTRCTD:	01/27/1111:25	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	NA
DATIME ANALYZD:	01/28/1120:09	01/28/1120:12	01/28/1120:15	DATE RECEIVED:	01/27/11
PREP. BATCH:	IPAD48S	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	51.8	104	50	52.4	105	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A209
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.1
DILUTION FACTOR:	0.942	4.71		
SAMPLE ID:	CP093-S3-08-02	CP093-S3-08-02DL		
EMAX SAMP ID:	A219-11	A219-11J		
LAB FILE ID:	ID8A028077	ID8A028078		
DATE EXTRACTED:	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	01/24/11 12:25
DATE ANALYZED:	01/28/1120:20	01/28/1120:23	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	25.5	26.4	3	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/28/11 16:48

End Date: 1/28/11 23:37

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

IEC update for B, Cd, Pb
(ICSA1 7LOD)
CCB4 K7LOD
CCB6 Ca, K, Zn 7LOD
A169-03 Fe7LDR
A187-01 Is↓
ICSA1 K7LOD

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8A028

Analytical Sequence: S-11A6010(V34)

Method File: 11A6010(V34)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-33-09	S30	SM1B1402-03
S1	NA	S31	0204
S2		ICV	2701
S3		CCV	3001
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL3,5	SM1B14-1201
S10		MRL4,6	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B1431-02		
S21	01-01		
S22	0102		
S23	0103		
S24	-0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	02-02		

Analyzed By: TH

Date: 1/31/11

SEQUENCE FILE : ID8A028

4-18 LFID	19-33 LSID	34-43 TIME	44-53 DATE	54-63 DF
ID8A028001	Blank	16:48	01/28/11	1.000
ID8A028002	S20	16:51	01/28/11	1.000
ID8A028003	S21	16:54	01/28/11	1.000
ID8A028004	S22	16:57	01/28/11	1.000
ID8A028005	S23	16:59	01/28/11	1.000
ID8A028006	S24	17:02	01/28/11	1.000
ID8A028007	S25	17:05	01/28/11	1.000
ID8A028008	S26	17:08	01/28/11	1.000
ID8A028009	S27	17:11	01/28/11	1.000
ID8A028010	S28	17:14	01/28/11	1.000
ID8A028011	S29	17:17	01/28/11	1.000
ID8A028012	S30	17:20	01/28/11	1.000
ID8A028013	S31	17:23	01/28/11	1.000
ID8A028014	ICV	17:25	01/28/11	1.000
ID8A028015	ICB	17:28	01/28/11	1.000
ID8A028016	MRLA2803	17:31	01/28/11	1.000
ID8A028017	MRLA2804	17:34	01/28/11	1.000
ID8A028018	ICSA1	17:36	01/28/11	1.000
ID8A028019	ICSA81	17:39	01/28/11	1.000
ID8A028020	CCV1	17:42	01/28/11	1.000
ID8A028021	CCB1	17:45	01/28/11	1.000
ID8A028022	10I108	17:48	01/28/11	1.000
ID8A028023	10H054	17:50	01/28/11	1.000
ID8A028024	10H055	17:53	01/28/11	1.000
ID8A028025	10L107	17:56	01/28/11	1.000
ID8A028026	CCV2	17:59	01/28/11	1.000
ID8A028027	CCB2	18:01	01/28/11	1.000
ID8A028028	IPA045SB	18:04	01/28/11	1.000
ID8A028029	IPA045SL	18:07	01/28/11	1.000
ID8A028030	IPA045SC	18:09	01/28/11	1.000
ID8A028031	MDLV-01	18:12	01/28/11	1.000
ID8A028032	MDLV-02	18:15	01/28/11	1.000
ID8A028033	MDLV-03	18:18	01/28/11	1.000
ID8A028034	MRLA2805	18:21	01/28/11	1.000
ID8A028035	MRLA2806	18:23	01/28/11	1.000
ID8A028036	CCV3	18:26	01/28/11	1.000
ID8A028037	CCB3	18:29	01/28/11	1.000
ID8A028038	IPA039WQ	18:32	01/28/11	1.000
ID8A028039	IPA039WX	18:35	01/28/11	1.000
ID8A028040	IPA039WY	18:37	01/28/11	1.000
ID8A028041	A135-02A	18:40	01/28/11	1.000
ID8A028042	A135-02W	18:43	01/28/11	1.000
ID8A028043	A135-02J	18:46	01/28/11	5.000
ID8A028044	A135-03W	18:48	01/28/11	1.000
ID8A028045	A135-04W	18:51	01/28/11	1.000
ID8A028046	A135-05W	18:54	01/28/11	1.000
ID8A028047	Blank	18:57	01/28/11	1.000
ID8A028048	CCV4	19:00	01/28/11	1.000
ID8A028049	CCB4	19:03	01/28/11	1.000
ID8A028050	IPA044SB	19:06	01/28/11	1.000
ID8A028051	IPA044SL	19:09	01/28/11	1.000
ID8A028052	IPA044SC	19:11	01/28/11	1.000
ID8A028053	A169-03A	19:14	01/28/11	1.000
ID8A028054	A169-03	19:17	01/28/11	1.000

ID8A028055	A169-03J	19:20	01/28/11	5.000
ID8A028056	A169-03M	19:22	01/28/11	1.000
ID8A028057	A169-03S	19:25	01/28/11	1.000
ID8A028058	Blank	19:28	01/28/11	1.000
ID8A028059	CCV5	19:31	01/28/11	1.000
ID8A028060	CCB5	19:33	01/28/11	1.000
ID8A028061	A169-03A	19:36	01/28/11	5.000
ID8A028062	A169-03T	19:39	01/28/11	5.000
ID8A028063	A169-03J	19:41	01/28/11	25.00
ID8A028064	A169-03G	19:44	01/28/11	5.000
ID8A028065	A169-03H	19:47	01/28/11	5.000
ID8A028066	A169-01	19:49	01/28/11	1.000
ID8A028067	A169-02	19:52	01/28/11	1.000
ID8A028068	A135-06W	19:55	01/28/11	1.000
ID8A028069	A135-07W	19:58	01/28/11	1.000
ID8A028070	Blank	20:01	01/28/11	1.000
ID8A028071	CCV6	20:04	01/28/11	1.000
ID8A028072	CCB6	20:06	01/28/11	1.000
ID8A028073	IPA048SB	20:09	01/28/11	1.000
ID8A028074	IPA048SL	20:12	01/28/11	1.000
ID8A028075	IPA048SC	20:15	01/28/11	1.000
ID8A028076	A219-11A	20:17	01/28/11	1.000
ID8A028077	A219-11	20:20	01/28/11	1.000
ID8A028078	A219-11J	20:23	01/28/11	5.000
ID8A028079	A219-11M	20:25	01/28/11	1.000
ID8A028080	A219-11S	20:28	01/28/11	1.000
ID8A028081	A219-01	20:31	01/28/11	1.000
ID8A028082	Blank	20:33	01/28/11	1.000
ID8A028083	CCV7	20:36	01/28/11	1.000
ID8A028084	CCB7	20:39	01/28/11	1.000
ID8A028085	A219-02	20:42	01/28/11	1.000
ID8A028086	A219-03	20:45	01/28/11	1.000
ID8A028087	A219-04	20:47	01/28/11	1.000
ID8A028088	A219-05	20:50	01/28/11	1.000
ID8A028089	A219-06	20:53	01/28/11	1.000
ID8A028090	A219-07	20:56	01/28/11	1.000
ID8A028091	A219-08	20:59	01/28/11	1.000
ID8A028092	A219-09	21:01	01/28/11	1.000
ID8A028093	A219-10	21:04	01/28/11	1.000
ID8A028094	Blank	21:07	01/28/11	1.000
ID8A028095	CCV8	21:10	01/28/11	1.000
ID8A028096	CCB8	21:12	01/28/11	1.000
ID8A028097	A187-01	21:15	01/28/11	1.000
ID8A028098	A209-03	21:18	01/28/11	1.000
ID8A028099	A209-04	21:21	01/28/11	1.000
ID8A028100	A209-07	21:24	01/28/11	1.000
ID8A028101	A209-09	21:27	01/28/11	1.000
ID8A028102	Blank	21:30	01/28/11	1.000
ID8A028103	CCV9	21:32	01/28/11	1.000
ID8A028104	CCB9	21:35	01/28/11	1.000
ID8A028105	IPA047SB	21:38	01/28/11	1.000
ID8A028106	IPA047SL	21:41	01/28/11	1.000
ID8A028107	IPA047SC	21:43	01/28/11	1.000
ID8A028108	A200-03A	21:46	01/28/11	10.00
ID8A028109	A200-03T	21:48	01/28/11	10.00
ID8A028110	A200-03J	21:51	01/28/11	50.00
ID8A028111	A200-01T	21:54	01/28/11	10.00

ID8A028112	A200-02T	21:56	01/28/11	10.00
ID8A028113	A133-01T	21:59	01/28/11	10.00
ID8A028114	A133-02T	22:02	01/28/11	10.00
ID8A028115	CCV10	22:04	01/28/11	1.000
ID8A028116	CCB10	22:07	01/28/11	1.000
ID8A028117	IPA053SB	22:10	01/28/11	1.000
ID8A028118	IPA053SL	22:13	01/28/11	1.000
ID8A028119	IPA053SC	22:15	01/28/11	1.000
ID8A028120	A251-06A	22:18	01/28/11	1.000
ID8A028121	A251-06	22:20	01/28/11	1.000
ID8A028122	A251-06J	22:23	01/28/11	5.000
ID8A028123	A251-06M	22:26	01/28/11	1.000
ID8A028124	A251-06S	22:28	01/28/11	1.000
ID8A028125	Blank	22:31	01/28/11	1.000
ID8A028126	CCV11	22:34	01/28/11	1.000
ID8A028127	CCB11	22:36	01/28/11	1.000
ID8A028128	A251-01	22:39	01/28/11	1.000
ID8A028129	A251-02	22:42	01/28/11	1.000
ID8A028130	A251-03	22:45	01/28/11	1.000
ID8A028131	A251-04	22:47	01/28/11	1.000
ID8A028132	A251-05	22:50	01/28/11	1.000
ID8A028133	A251-07	22:53	01/28/11	1.000
ID8A028134	A195-04T	22:56	01/28/11	5.000
ID8A028135	Blank	22:59	01/28/11	1.000
ID8A028136	CCV12	23:01	01/28/11	1.000
ID8A028137	CCB12	23:04	01/28/11	1.000
ID8A028138	IPA052WB	23:07	01/28/11	1.000
ID8A028139	IPA052WL	23:10	01/28/11	1.000
ID8A028140	IPA052WC	23:12	01/28/11	1.000
ID8A028141	A220-03A	23:15	01/28/11	1.000
ID8A028142	A220-03	23:17	01/28/11	1.000
ID8A028143	A220-03J	23:20	01/28/11	5.000
ID8A028144	A220-03M	23:23	01/28/11	1.000
ID8A028145	A220-03S	23:26	01/28/11	1.000
ID8A028146	A220-02	23:28	01/28/11	1.000
ID8A028147	Blank	23:31	01/28/11	1.000
ID8A028148	CCV13	23:34	01/28/11	1.000
ID8A028149	CCB13	23:37	01/28/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A028 DATE : 01/28/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	99	105	99	101	99	100	104	100	92	99	100	96	107	96	94	98	98	99	103	102	105	99	95	99	100	97	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	96	----	----	----	91	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	100	105	107	108	99	99	94	96	96	94	106	93	94	115	96	92	103	99	106	107	110	111	104	85	102	99	96	107
CCV1	103	103	103	99	99	97	97	100	98	94	98	97	97	106	94	94	101	99	98	103	100	104	98	93	105	98	95	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10I108	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H054	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H055	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10L107	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	102	105	100	100	98	99	101	100	94	99	99	96	107	96	95	100	98	98	104	102	104	98	96	103	99	97	107
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	103	102	102	99	99	97	97	101	98	94	97	97	96	106	94	94	100	98	98	102	100	103	97	93	104	98	94	107
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	103	102	102	99	98	97	95	99	96	94	98	96	97	107	92	93	101	98	98	102	100	103	97	92	105	97	94	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	103	101	101	98	98	96	95	99	97	93	97	96	96	106	93	93	100	97	98	101	100	103	97	92	103	97	94	105
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	103	101	101	98	97	95	93	97	95	94	97	95	96	106	91	91	101	98	97	101	99	102	96	91	105	97	92	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	107	104	106	101	100	98	99	99	99	95	101	98	96	108	94	94	101	99	98	105	102	104	98	96	103	99	97	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	103	102	102	99	98	96	94	99	96	94	97	96	97	106	92	92	102	99	97	102	99	103	97	92	106	98	93	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	104	102	102	99	98	96	95	99	96	94	97	96	97	106	92	92	102	99	97	102	100	103	97	93	106	98	93	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A200-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	104	102	101	99	98	97	94	98	96	94	98	95	97	106	92	92	102	99	98	102	100	103	97	92	105	97	93	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	102	100	100	98	97	95	92	98	95	94	97	95	96	106	91	91	101	98	97	100	99	103	97	90	104	96	92	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	101	100	98	97	96	93	98	95	94	97	95	96	105	91	92	101	98	97	101	100	103	97	91	104	96	93	104
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	104	101	102	99	97	96	94	97	95	94	99	95	96	106	91	92	101	98	97	102	100	103	97	92	104	97	94	104
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A028 (WATER) DATE : 01/28/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	7.80	2.46	1.34	-.640	.210	3.38	.060	-4.34	.140	.170	.280	-4.26	.500	.700	16.0	.530	.530	.010	115	.430	.130	46.2	.090	.290	-.140	.100	.180	-1.31
MRLA2803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.27	-.270	.260	-.070	-7.23	-.130	----	1.53	-.680	1.32	----	-1.58	5.58	----	.850	-1.96	-.930	106	3.35	.270	74.1	21.0	1.57	1.86	2.06	1.66	1.14
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.96	1.02	.090	-.740	.120	3.71	.010	-9.07	.010	.080	.150	-2.39	.270	.280	13.9	.290	.520	-.080	144	1.04	.000	54.4	.010	.260	.040	.330	.110	-1.69
10I108	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H054	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H055	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10L107	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	27.6	1.95	.030	.660	.430	3.66	.390	126	.500	.260	.790	1.51	.890	.690	28.7	.940	.910	.400	94.4	-.330	.220	48.9	.200	.560	-.070	.220	.490	5.31
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	25.3	1.18	-.980	.500	.380	3.31	.360	68.2	.460	.180	.620	1.79	.510	.380	25.1	.850	.910	.300	83.0	1.14	.250	45.8	.190	.490	.330	.520	.250	2.54
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	23.5	1.76	.400	.420	.370	3.47	.290	68.0	.520	.170	.890	.080	.430	-.280	23.7	.850	1.04	.410	128	1.07	.130	85.1	.240	1.02	.070	.810	.260	2.80
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	8.83	1.74	.480	-.450	.160	2.91	.070	55.5	.140	.210	.270	-.850	-.010	620	20.7	.480	.440	-.110	84.6	1.05	.130	25.4	.050	.770	.020	.450	.070	1.39
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	49.2	1.60	.680	1.69	.790	3.23	.790	973	1.000	.540	1.43	13.5	1.54	.330	36.8	1.89	1.16	1.20	149	.720	.440	83.8	.600	1.07	.370	.560	.690	39.3
IPA048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	28.4	1.76	.430	.430	.400	2.53	.350	83.3	.500	.240	.780	2.07	.560	.600	29.3	.830	.960	.410	98.2	1.38	.190	46.3	.260	.580	.370	.470	.430	3.54
A219-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	21.8	1.96	-.750	.400	.330	2.38	.330	69.5	.360	.270	.830	1.52	.880	560	19.0	.940	.940	.240	87.5	1.47	.160	31.9	.240	.400	.040	-.080	.310	2.78
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	23.6	1.11	-.250	.450	.370	3.00	.320	63.8	.470	.280	.840	5.82	.790	.470	27.5	.820	1.02	.370	91.2	.900	.160	32.5	.210	.750	-.170	.390	.190	2.58
IPA047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A200-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	22.1	.650	.470	.510	.360	3.36	.350	83.1	.480	.160	.720	2.17	.940	.430	26.0	.890	.950	.330	92.0	.790	.120	35.2	.270	.620	.530	.310	.300	3.70
IPA053SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	6.43	1.69	.280	-.530	.140	3.22	.040	52.7	-.050	.180	.390	-.680	.150	.130	17.7	.340	.480	.030	77.1	.880	.170	28.1	.120	.610	-.030	.310	.110	1.42
A251-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	6.34	1.61	-.360	-.530	.130	3.23	.030	52.3	.100	.070	.370	-3.90	.330	.020	13.2	.380	.440	.000	59.1	.850	.090	16.1	.100	.030	.140	.200	.080	1.49
IPA052WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	6.50	1.65	-.140	-.550	.130	3.32	.060	52.6	.110	.100	.320	-4.44	.180	-.040	17.3	.290	.570	-.010	101	-.710	.150	35.8	.100	-.220	.370	.280	.130	1.48

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A028 (SOIL) DATE : 01/28/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	7.80	2.46	1.34	-.640	.210	3.38	.060	-4.34	.140	.170	.280	-4.26	.500	.700	16.0	.530	.530	.010	115	.430	.130	46.2	.090	.290	-.140	.100	.180	-1.31
MRLA2B03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2B04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.27	-.270	.260	-.070	-7.23	-.130	----	1.53	-.680	1.32	----	-1.58	5.58	----	.850	-1.96	-.930	106	3.35	.270	74.1	21.0	1.57	1.86	2.06	1.66	1.14
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.96	1.02	.090	-.740	.120	3.71	.010	-9.07	.010	.080	.150	-2.39	.270	.280	13.9	.290	.520	-.080	144	1.04	.000	54.4	.010	.260	.040	.330	.110	-1.69
10I108	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H054	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H055	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10L107	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	27.6	1.95	.030	.660	.430	3.66	.390	126	.500	.260	.790	1.51	.890	.690	28.7	.940	.910	.400	94.4	-.330	.220	48.9	.200	.560	-.070	.220	.490	5.31
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2B05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2B06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	25.3	1.18	-.980	.500	.380	3.31	.360	68.2	.460	.180	.620	1.79	.510	.380	25.1	.850	.910	.300	83.0	1.14	.250	45.8	.190	.490	.330	.520	.250	2.54
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	23.5	1.76	.400	.420	.370	3.47	.290	68.0	.520	.170	.890	.080	.430	-.280	23.7	.850	1.04	.410	128	1.07	.130	85.1	.240	1.02	.070	.810	.260	2.80
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	8.83	1.74	.480	-.450	.160	2.91	.070	55.5	.140	.210	.270	-.850	-.010	.620	20.7	.480	.440	-.110	84.6	1.05	.130	25.4	.050	.770	.020	.450	.070	1.39
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	49.2	1.60	.680	1.69	.790	3.23	.790	973	1.000	.540	1.43	13.5	1.54	.330	36.8	1.89	1.16	1.20	149	.720	.440	83.8	.600	1.07	.370	.560	.690	39.3
IPA048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	28.4	1.76	.430	.430	.400	2.53	.350	83.3	.500	.240	.780	2.07	.560	.600	29.3	.830	.960	.410	98.2	1.38	.190	46.3	.260	.580	.370	.470	.430	3.54
A219-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	21.8	1.96	-.750	.400	.330	2.38	.330	69.5	.360	.270	.830	1.52	.880	.560	19.0	.940	.940	.240	87.5	1.47	.160	31.9	.240	.400	.040	-.080	.310	2.78
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	23.6	1.11	-.250	.450	.370	3.00	.320	63.8	.470	.280	.840	5.82	.790	.470	27.5	.820	1.02	.370	91.2	.900	.160	32.5	.210	.750	-.170	.390	.190	2.58
IPA047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A200-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	22.1	.650	.470	.510	.360	3.36	.350	83.1	.480	.160	.720	2.17	.940	.430	26.0	.890	.950	.330	92.0	.790	.120	35.2	.270	.620	.530	.310	.300	3.70
IPA053SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	6.43	1.69	.280	-.530	.140	3.22	.040	52.7	-.050	.180	.390	-.680	.150	.130	17.7	.340	.480	.030	77.1	.880	.170	28.1	.120	.610	-.030	.310	.110	1.42
A251-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	6.34	1.61	-.360	-.530	.130	3.23	.030	52.3	.100	.070	.370	-3.90	.330	.020	13.2	.380	.440	.000	59.1	.850	.090	16.1	.100	.030	.140	.200	.080	1.49
IPA052WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	6.50	1.65	-.140	-.550	.130	3.32	.060	52.6	.110	.100	.320	-4.44	.180	-.040	17.3	.290	.570	-.010	101	-.710	.150	35.8	.100	-.220	.370	.280	.130	1.48

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Dilln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A028001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8A028002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8A028003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8A028004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8A028005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8A028006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8A028007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8A028008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8A028009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8A028010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8A028011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8A028012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8A028013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8A028014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A028015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLA2803		ID8A028016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA2804		ID8A028017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A028018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A028019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A028020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A028021			1	☒	3XIDL	None
22	9	2	9	1	Unk	10I108		ID8A028022			1	☒	unk	—
23	10	2	10	1	Unk	10H054		ID8A028023			1	☒	unk	—
24	11	2	11	1	Unk	10H055		ID8A028024			1	☒	unk	—
25	12	2	12	1	Unk	10L107		ID8A028025			1	☒	unk	—
26	13	2	1	2	QC	CCV2		ID8A028026			1	☒	CCV	None
27	14	2	2	2	QC	CCB2		ID8A028027			1	☒	3XIDL	None
28	16	2	4	2	QC	IPA045SB		ID8A028028			1	☒	1/2LOQ	None
29	60	2	12	5	QC	IPA045SL		ID8A028029			1	☒	LCS	None
30	61	3	1	1	QC	IPA045SC		ID8A028030			1	☒	LCS	None
31	62	3	2	1	Unk	MDLV-01	3050	ID8A028031			1	☒	unk	—
32	63	3	3	1	Unk	MDLV-02	3050	ID8A028032			1	☒	unk	—
33	64	3	4	1	Unk	MDLV-03	3050	ID8A028033			1	☒	unk	—
34	65	3	5	1	QC	MRLA2805		ID8A028034			1	☒	MRL-EMAX	None
35	66	3	6	1	QC	MRLA2806		ID8A028035			1	☒	MRL-AFCEE	None
36	67	3	7	1	QC	CCV3		ID8A028036			1	☒	CCV	None
37	68	3	8	1	QC	CCB3		ID8A028037			1	☒	3XIDL	None
38	69	3	9	1	QC	IPA039WQ		ID8A028038			1	☒	1/2LOQ	None
39	70	3	10	1	QC	IPA039WX		ID8A028039			1	☒	LCS	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
40	71	3	11	1	QC	IPA039WY		ID8A028040			1	☒	LCS	None
41	72	3	12	1	Unk	A135-02A		ID8A028041			1	☒	unk	---
42	73	3	1	2	Unk	A135-02W	K=5.58ppm	ID8A028042			1	☒	unk	---
43	74	3	2	2	Unk	A135-02J		ID8A028043			1	☒	unk	---
44	75	3	3	2	Unk	A135-03W	K=5.89 ppm	ID8A028044			1	☒	unk	---
45	76	3	4	2	Unk	A135-04W	K=5.86	ID8A028045			1	☒	unk	---
46	77	3	5	2	Unk	A135-05W	K=5.97	ID8A028046			1	☒	unk	---
47	78	3	6	2	Blank	Blank		ID8A028047			1	☐		---
48	79	3	7	2	QC	CCV4		ID8A028048			1	☒	CCV	None
49	80	3	8	2	QC	CCB4	K=0.128ppm	ID8A028049			1	☒	3XIDL	None
50	88	3	4	3	QC	IPA044SB		ID8A028050			1	☒	1/2LOQ	None
51	89	3	5	3	QC	IPA044SL		ID8A028051			1	☒	LCS	None
52	90	3	6	3	QC	IPA044SC		ID8A028052			1	☒	LCS	None
53	91	3	7	3	Unk	A169-03A		ID8A028053			1	☒	unk	---
54	92	3	8	3	Unk	A169-03	FE7LOR	ID8A028054			1	☒	unk	---
55	93	3	9	3	Unk	A169-03J		ID8A028055			1	☒	unk	---
56	94	3	10	3	Unk	A169-03M		ID8A028056			1	☒	unk	---
57	95	3	11	3	Unk	A169-03S		ID8A028057			1	☒	unk	---
58	96	3	12	3	Blank	Blank		ID8A028058			1	☐		---
59	97	3	1	4	QC	CCV5		ID8A028059			1	☒	CCV	None
60	98	3	2	4	QC	CCB5		ID8A028060			1	☒	3XIDL	None
61	99	3	3	4	Unk	A169-03A	5X	ID8A028061			1	☒	unk	---
62	100	3	4	4	Unk	A169-03T	5X	ID8A028062			1	☒	unk	---
63	101	3	5	4	Unk	A169-03J	25X	ID8A028063			1	☒	unk	---
64	102	3	6	4	Unk	A169-03G	5X	ID8A028064			1	☒	unk	---
65	103	3	7	4	Unk	A169-03H	5X	ID8A028065			1	☒	unk	---
66	83	3	11	2	Unk	A169-01		ID8A028066			1	☒	unk	---
67	84	3	12	2	Unk	A169-02		ID8A028067			1	☒	unk	---
68	81	3	9	2	Unk	A135-06W Zn ND	K=9.61 Ca388	ID8A028068			1	☒	unk	---
69	82	3	10	2	Unk	A135-07W Zn ND	K=6.16 Ca172	ID8A028069			1	☒	unk	---
70	85	3	1	3	Blank	Blank		ID8A028070			1	☐		---
71	86	3	2	3	QC	CCV6		ID8A028071			1	☒	CCV	None
72	87	3	3	3	QC	CCB6 Zn=0.039	K=0.149 Ca0.973	ID8A028072			1	☒	3XIDL	None
73	29	2	5	3	QC	IPA048SB		ID8A028073			1	☒	1/2LOQ	None
74	30	2	6	3	QC	IPA048SL		ID8A028074			1	☒	LCS	None
75	31	2	7	3	QC	IPA048SC		ID8A028075			1	☒	LCS	None
76	32	2	8	3	Unk	A219-11A		ID8A028076			1	☒	unk	---
77	33	2	9	3	Unk	A219-11		ID8A028077			1	☒	unk	---
78	34	2	10	3	Unk	A219-11J		ID8A028078			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
79	35	2	11	3	Unk	A219-11M		ID8A028079			1	☒	unk	—
80	36	2	12	3	Unk	A219-11S		ID8A028080			1	☒	unk	—
81	37	2	1	4	Unk	A219-01		ID8A028081			1	☒	unk	—
82	38	2	2	4	Blank	Blank		ID8A028082			1	☐		—
83	39	2	3	4	QC	CCV7		ID8A028083			1	☒	CCV	None
84	40	2	4	4	QC	CCB7		ID8A028084			1	☒	3XIDL	None
85	41	2	5	4	Unk	A219-02		ID8A028085			1	☒	unk	—
86	42	2	6	4	Unk	A219-03		ID8A028086			1	☒	unk	—
87	43	2	7	4	Unk	A219-04		ID8A028087			1	☒	unk	—
88	44	2	8	4	Unk	A219-05		ID8A028088			1	☒	unk	—
89	45	2	9	4	Unk	A219-06		ID8A028089			1	☒	unk	—
90	46	2	10	4	Unk	A219-07		ID8A028090			1	☒	unk	—
91	47	2	11	4	Unk	A219-08		ID8A028091			1	☒	unk	—
92	48	2	12	4	Unk	A219-09		ID8A028092			1	☒	unk	—
93	15	2	3	2	Unk	A219-10		ID8A028093			1	☒	unk	—
94	50	2	2	5	Blank	Blank		ID8A028094			1	☐		—
95	51	2	3	5	QC	CCV8		ID8A028095			1	☒	CCV	None
96	52	2	4	5	QC	CCB8		ID8A028096			1	☒	3XIDL	None
97	49	2	1	5	Unk	A187-01	IS ✓	ID8A028097			1	☒	unk	—
98	53	2	5	5	Unk	A209-03	dried & sieved	ID8A028098			1	☒	unk	—
99	54	2	6	5	Unk	A209-04	dried & sieved	ID8A028099			1	☒	unk	—
100	55	2	7	5	Unk	A209-07	dried & sieved	ID8A028100			1	☒	unk	—
101	56	2	8	5	Unk	A209-09	dried & sieved	ID8A028101			1	☒	unk	—
102	57	2	9	5	Blank	Blank		ID8A028102			1	☐		—
103	58	2	10	5	QC	CCV9		ID8A028103			1	☒	CCV	None
104	59	2	11	5	QC	CCB9		ID8A028104			1	☒	3XIDL	None
105	17	2	5	2	QC	IPA047SB		ID8A028105			1	☒	1/2LOQ	None
106	18	2	6	2	QC	IPA047SL		ID8A028106			1	☒	LCS	None
107	19	2	7	2	QC	IPA047SC		ID8A028107			1	☒	LCS	None
108	20	2	8	2	Unk	A200-03A	10X	ID8A028108			1	☒	unk	—
109	21	2	9	2	Unk	A200-03T	10X	ID8A028109			1	☒	unk	—
110	22	2	10	2	Unk	A200-03J	50X	ID8A028110			1	☒	unk	—
111	23	2	11	2	Unk	A200-01T	10X	ID8A028111			1	☒	unk	—
112	24	2	12	2	Unk	A200-02T	10X	ID8A028112			1	☒	unk	—
113	25	2	1	3	Unk	A133-01T	10X	ID8A028113			1	☒	unk	—
114	26	2	2	3	Unk	A133-02T	10X	ID8A028114			1	☒	unk	—
115	27	2	3	3	QC	CCV10		ID8A028115			1	☒	CCV	None
116	28	2	4	3	QC	CCB10		ID8A028116			1	☒	3XIDL	None
117	104	3	8	4	QC	IPA053SB		ID8A028117			1	☒	1/2LOQ	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	105	3	9	4	QC	IPA053SL		ID8A028118			1	☒	LCS	None
119	106	3	10	4	QC	IPA053SC		ID8A028119			1	☒	LCS	None
120	107	3	11	4	Unk	A251-06A		ID8A028120			1	☒	unk	---
121	108	3	12	4	Unk	A251-06		ID8A028121			1	☒	unk	---
122	109	3	1	5	Unk	A251-06J		ID8A028122			1	☒	unk	---
123	110	3	2	5	Unk	A251-06M		ID8A028123			1	☒	unk	---
124	111	3	3	5	Unk	A251-06S		ID8A028124			1	☒	unk	---
125	112	3	4	5	Blank	Blank		ID8A028125			1	☐		---
126	113	3	5	5	QC	CCV11		ID8A028126			1	☒	CCV	None
127	114	3	6	5	QC	CCB11		ID8A028127			1	☒	3XIDL	None
128	115	3	7	5	Unk	A251-01		ID8A028128			1	☒	unk	---
129	116	3	8	5	Unk	A251-02		ID8A028129			1	☒	unk	---
130	117	3	9	5	Unk	A251-03		ID8A028130			1	☒	unk	---
131	118	3	10	5	Unk	A251-04		ID8A028131			1	☒	unk	---
132	119	3	11	5	Unk	A251-05		ID8A028132			1	☒	unk	---
133	123	4	3	1	Unk	A251-07		ID8A028133			1	☒	unk	---
134	136	4	4	2	Unk	A195-04T	5X	ID8A028134			1	☒	unk	---
135	120	3	12	5	Blank	Blank		ID8A028135			1	☐		---
136	121	4	1	1	QC	CCV12		ID8A028136			1	☒	CCV	None
137	122	4	2	1	QC	CCB12		ID8A028137			1	☒	3XIDL	None
138	124	4	4	1	QC	IPA052WB		ID8A028138			1	☒	1/2LOQ	None
139	125	4	5	1	QC	IPA052WL		ID8A028139			1	☒	LCS	None
140	126	4	6	1	QC	IPA052WC		ID8A028140			1	☒	LCS	None
141	127	4	7	1	Unk	A220-03A		ID8A028141			1	☒	unk	---
142	128	4	8	1	Unk	A220-03		ID8A028142			1	☒	unk	---
143	129	4	9	1	Unk	A220-03J		ID8A028143			1	☒	unk	---
144	130	4	10	1	Unk	A220-03M		ID8A028144			1	☒	unk	---
145	131	4	11	1	Unk	A220-03S		ID8A028145			1	☒	unk	---
146	132	4	12	1	Unk	A220-02		ID8A028146			1	☒	unk	---
147	133	4	1	2	Blank	Blank		ID8A028147			1	☐		---
148	134	4	2	2	QC	CCV13		ID8A028148			1	☒	CCV	None
149	135	4	3	2	QC	CCB13		ID8A028149			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00133	.00002	-.00001	.00066	.00011	.00031	-.00004	.00050	.00001	-.00102	Blank
2	S20					.90773		.12142				S20
3	S21					8.9517		1.1529				S21
4	S22				.49545						.16319	S22
5	S23				4.9123						1.7071	S23
6	S24						.09573					S24
7	S25						.99576					S25
8	S26	.27358							.84950	.13335		S26
9	S27	9.8712							7.7742	1.2705		S27
10	S28		.00550									S28
11	S29		.05429									S29
12	S30			.00134								S30
13	S31			.00544								S31
14	ICV	106.06	1.4799	1.0498	1.9857	1.5195	2.4658	1.9982	77.955	2.5001	.91864	ICV
15	ICB	.00780	.00246	.00134*	-.00064*	.00021	.00338	.00006	-.00434	.00014	.00017	ICB
16	MRLA2803	.22480	.10311	.00974	.00988	.01012	.00973	.01049	1.0700	.01070	.00927	MRLA2B03
17	MRLA2804	.22001	.05288	.01113	.00463	.00429	.09600	.00542	.52874	.01056	.00930	MRLA2804
18	ICSA1	394.86	.00827	-.00027	.00026	-.00007	-.00723	-.00013	480.83	.00153	-.00068	ICSA1
19	ICSAB1	398.45	1.0526	1.0709	.53870	.49632	.49670	.94320	480.81	.48190	.46963	ICSAB1
20	CCV1	103.37	1.5408	1.0304	1.9888	1.4858	2.4270	1.9326	75.056	2.4452	.94145	CCV1
21	CCB1	.00596	.00102	.00009	-.00074*	.00012	.00371	.00001	-.00907	.00001	.00008	CCB1
22	10I108	.01638	2.4363	.00028	.00013	-.00008	.46125	.00007	.00923	.00000	.00005	10I108
23	10H054	5.2457	-.00482	.49944	.51146	.51797	.00186	.52213	.06100	.52390	.48040	10H054
24	10H055	-.00393	2.4391	-.00042	-.00037	-.00006	.46552	.00010	.00407	.00002	.00011	10H055
25	10L107	5.2557	-.00472	.50684	.50699	.51745	.00126	.53047	.00842	.52906	.47611	10L107
26	CCV2	104.62	1.5362	1.0485	1.9949	1.5053	2.4514	1.9814	76.010	2.4991	.93766	CCV2
27	CCB2	.02758	.00195	.00003	.00066*	.00043	.00366	.00039*	.12633	.00050*	.00026*	CCB2
28	IPA045SB	.00517	.00138	-.00220	.00273	.00003	.00118	-.00010	.09482	.00012	-.00005	IPA045SB
29	IPA045SL	5.0171	2.4403	.50451	.49204	.49712	.45321	.49413	50.801	.50582	.47913	IPA045SL
30	IPA045SC	4.9607	2.3969	.49758	.49045	.49586	.44885	.48826	50.325	.50382	.47902	IPA045SC
31	MDLV-01	.04802	.02857	.00306	.00117	.00206	.01025	.00089	.11336	.00190	.00188	MDLV-01
32	MDLV-02	.00091	.01019	-.00135	-.00080	.00008	.00087	-.00007	.00337	.00015	.00006	MDLV-02
33	MDLV-03	.00123	.02038	-.00143	-.00077	.00011	.00070	.00003	.00192	.00021	.00012	MDLV-03
34	MRLA2805	.20855	.10050	.00989	.00944	.00990	.00878	.01009	1.0684	.01035	.00925	MRLA2805
35	MRLA2806	.20292	.05059	.00963	.00453	.00419	.09314	.00515	.53333	.01018	.00915	MRLA2806
36	CCV3	102.55	1.5257	1.0210	1.9704	1.4837	2.4227	1.9356	75.707	2.4525	.93561	CCV3
37	CCB3	.02534	.00118	-.00098	.00050*	.00038	.00331	.00036*	.06825	.00046	.00018	CCB3
38	IPA039WQ	.00602	-.00019	.00079	-.00065	-.00001	.00318	.00000	.00697	-.00011	.00014	IPA039WQ
39	IPA039WX	5.5776	2.6219	.54153	.50773	.51139	.50401	.52360	52.581	.52427	.48697	IPA039WX
40	IPA039WY	5.7202	2.6697	.55068	.51700	.51910	.51002	.52965	51.707	.52835	.49502	IPA039WY
41	A135-02A	6.0750	2.6319	.64217	.95325	.51100	.74021	.50563	252.09	.51725	.49368	A135-02A
42	A135-02W	.24454	.00200	.07777	.44547	.00007	.22827	-.00013	210.92	.00119	-.00041	A135-02W
43	A135-02J	.02900	.00093	.01470	.08688	.00001	.04409	-.00001	43.310	.00053	-.00005	A135-02J
44	A135-03W	.50774	-.00003	.09025	.31212	-.00007	.27053	-.00015	185.54	.00144	-.00034	A135-03W
45	A135-04W	.26418	-.00016	.08989	.30843	-.00004	.26468	-.00009	185.59	.00118	-.00049	A135-04W
46	A135-05W	.17094	.00016	.08441	.40898	-.00006	.26645	-.00006	185.05	.00107	-.00030	A135-05W
47	Blank	.01960	.00061	-.00075	.00062	.00022	.00121	.00032	.09197	.00040	.00021	Blank
48	CCV4	103.17	1.5268	1.0211	1.9742	1.4710	2.4171	1.8979	74.253	2.4088	.94031	CCV4
49	CCB4	.02349	.00176	.00040	.00042*	.00037	.00347	.00029*	.06802	.00052*	.00017	CCB4
50	IPA044SB	.00468	.00106	-.00168	-.00068	.00001	.00113	-.00015	.02119	.00019	.00002	IPA044SB
51	IPA044SL	5.3044	2.5047	.51784	.50860	.50839	.46347	.50101	51.585	.51596	.50005	IPA044SL
52	IPA044SC	5.3144	2.5093	.51464	.51170	.50826	.46479	.49811	51.666	.51523	.50081	IPA044SC
53	A169-03A	102.16	2.4662	1.0258	.78397	.53065	.47345	.48227	67.653	.63865	.96347	A169-03A
54	A169-03	95.996	.03688	.50185	.27141	.02624	.03396	.00382	17.910	.13983	.47162	A169-03

55	A169-03J	19.883	.00674	.09952	.05347	.00531	.00164	-.00078	3.6773	.02818	.09273	A169-03J
56	A169-03M	142.80	2.2391	1.1016	.76948	.52862	.44776	.47579	68.804	.68936	.70375	A169-03M
57	A169-03S	148.24	2.1713	1.0174	.73997	.50867	.44485	.45586	68.531	.66303	.56093	A169-03S
58	Blank	.02874	.00203	-.00021	.00052	.00033	.00143	.00034	.08205	.00040	.00026	Blank
59	CCV5	102.99	1.5082	1.0134	1.9653	1.4685	2.4065	1.9007	74.342	2.4135	.93291	CCV5
60	CCB5	.00883	.00174	.00048	-.00045*	.00016	.00291	.00007	.05554	.00014	.00021*	CCB5
61	A169-03A	26.478	2.4818	.63459	.57044	.52519	.48773	.50669	55.608	.54812	.59183	A169-03A
62	A169-03T	20.321	.00929	.10151	.05433	.00549	.00187	-.00075	3.6905	.02873	.09294	A169-03T
63	A169-03J	4.0478	.00085	.02154	.01029	.00111	.00001	.00005	.73101	.00581	.01843	A169-03J
64	A169-03G	30.133	.44341	.22218	.15514	.11030	.08919	.10183	14.221	.14426	.13920	A169-03G
65	A169-03H	31.628	.43401	.20507	.15031	.10662	.08795	.09780	14.168	.13878	.11210	A169-03H
66	A169-01	82.037	.00086	.03065	.27147	.00346	.02487	-.00044	8.6189	.07457	.02587	A169-01
67	A169-02	67.381	.00230	.04859	.34124	.00363	.02833	-.00015	29.225	.09250	.03239	A169-02
68	A135-06W	.06108	.00019	.02859	.54927	-.00009	.26654	-.00010	387.65	.00104	.00167	A135-06W
69	A135-07W	.89255	.00030	.07150	.51544	-.00004	.29629	-.00002	172.10	.00192	.00003	A135-07W
70	Blank	.01984	.00002	.00102	.00054	.00022	.00085	.00032	.09103	.00033	.00023	Blank
71	CCV6	102.91	1.5217	1.0078	1.9624	1.4533	2.3857	1.8611	73.120	2.3692	.93585	CCV6
72	CCB6	.04917	.00160	.00068	.00169*	.00079	.00323	.00079*	.97349*	.00100*	.00054*	CCB6
73	IPA048SB	.00194	.00106	-.00236	.00065	-.00003	.00097	-.00012	.01683	.00019	-.00003	IPA048SB
74	IPA048SL	5.3328	2.5725	.51912	.51775	.51457	.47406	.49675	52.790	.51643	.51537	IPA048SL
75	IPA048SC	5.3720	2.5741	.51541	.52269	.51622	.47405	.49340	53.282	.52042	.52056	IPA048SC
76	A219-11A	104.58	2.4335	.59134	1.5420	.50375	.46074	.46868	75.076	.67875	.55752	A219-11A
77	A219-11	99.147	.01197	.09263	1.0673	.00751	.01598	.00702	26.043	.20314	.06437	A219-11
78	A219-11J	21.267	.00274	.01974	.21557	.00160	.00233	.00123	5.3456	.04216	.01274	A219-11J
79	A219-11M	146.01	2.3796	.61309	1.4311	.53248	.47139	.51957	73.944	.79826	.56528	A219-11M
80	A219-11S	156.47	2.3807	.61898	1.8253	.52926	.47074	.50342	79.470	.76584	.58487	A219-11S
81	A219-01	96.309	.01004	.07290	1.3407	.00710	.00587	.00040	11.734	.17662	.05650	A219-01
82	Blank	.05455	.00155	.00076	.00248	.00053	.00070	.00067	.67594	.00088	.00044	Blank
83	CCV7	107.27	1.5548	1.0568	2.0202	1.4991	2.4471	1.9707	74.251	2.4749	.94501	CCV7
84	CCB7	.02842	.00176	.00043	.00043*	.00040	.00253	.00035*	.08329	.00050*	.00024*	CCB7
85	A219-02	106.56	.01113	.10120	1.3282	.00880	.01231	-.00012	10.514	.24432	.06273	A219-02
86	A219-03	96.919	.01181	.10196	.86796	.00813	.01852	.04437	29.789	.31043	.06580	A219-03
87	A219-04	104.23	.01181	.11882	.76748	.00882	.01553	.00064	12.104	.25266	.05268	A219-04
88	A219-05	112.91	.01323	.14213	1.0204	.01021	.02824	.01110	30.942	.26236	.06324	A219-05
89	A219-06	92.289	.01435	.15282	.84063	.00921	.02685	.00862	23.117	.27032	.07056	A219-06
90	A219-07	114.11	.00758	.09476	1.0550	.00869	.01583	.00515	21.984	.18733	.06290	A219-07
91	A219-08	87.193	.00994	.09499	1.0499	.00694	.01220	.00125	15.474	.20711	.05027	A219-08
92	A219-09	88.810	.00850	.09206	1.1741	.00721	.01242	-.00003	15.992	.29857	.04928	A219-09
93	A219-10	73.830	.00739	.06088	.83626	.00548	.01115	.00887	22.786	.12758	.04081	A219-10
94	Blank	.02538	.00088	.00058	.00064	.00023	.00013	.00032	.07334	.00049	.00028	Blank
95	CCV8	102.88	1.5366	1.0182	1.9786	1.4688	2.4056	1.8840	74.036	2.3951	.94150	CCV8
96	CCB8	.02177	.00196	-.00075	.00040*	.00033	.00238	.00033*	.06954	.00036	.00027*	CCB8
97	A187-01	540.49*	.13813	.17321	14.093	.01084	3.7398	.11230	885.95	1.5138	.21148	A187-01
98	A209-03	83.873	.00968	.06601	1.2487	.00717	.01540	.11345	37.167	.15178	.08099	A209-03
99	A209-04	177.01	.01298	.11687	.80377	.01094	.03750	.00989	20.126	.30272	.08555	A209-04
100	A209-07	147.70	.01562	.12290	1.1678	.01014	.03133	.09290	22.979	.24931	.09646	A209-07
101	A209-09	79.758	.01239	.09137	.93027	.00808	.02954	.00272	14.742	.31302	.06575	A209-09
102	Blank	.02483	-.00015	.00048	.00064	.00024	.00010	.00032	.07217	.00038	.00015	Blank
103	CCV9	103.57	1.5349	1.0207	1.9761	1.4683	2.4020	1.8929	74.119	2.4014	.94368	CCV9
104	CCB9	.02362	.00111	-.00025	.00045*	.00037	.00300	.00032*	.06381	.00047	.00028*	CCB9
105	IPA047SB	.06104	.10277*	-.00023	.00543*	-.00002	.00101	.00003	2.3217*	.00100	.00013	IPA047SB
106	IPA047SL	5.3857	2.5957	.53857	.53328	.53424	.47460	.50688	55.867	.53433	.53049	IPA047SL
107	IPA047SC	5.3004	2.6228	.53369	.52818	.52884	.47685	.50196	55.813	.53062	.52728	IPA047SC
108	A200-03A	7.2064	2.5522	.51935	.93239	.50838	.49599	.52427	59.683	.54578	.49994	A200-03A
109	A200-03T	1.6730	.08766	.00222	.43815	.00009	.01561	.04117	8.7890	.04707	.01187	A200-03T
110	A200-03J	.37540	.01682	.00084	.08517	.00006	.00297	.00810	1.7463	.00901	.00240	A200-03J
111	A200-01T	30.988	.15442	.01592	.86912	.00040	.07493	.50486	43.065	1.6431	.08240	A200-01T

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
112	A200-02T	1.4206	.04462	.00202	.09855	.00008	.00596	.01874	2.8212	.07973	.00279	A200-02T
113	A133-01T	33.153	.60144	.03167	1.9090	.00094	.07156	.17509	45.364	1.0672	.05780	A133-01T
114	A133-02T	22.021	.12696	.02045	1.2158	.00044	.14187	.28133	53.860	.34613	.09193	A133-02T
115	CCV10	103.72	1.5302	1.0142	1.9797	1.4681	2.4131	1.8752	73.833	2.3917	.94422	CCV10
116	CCB10	.02207	.00065	.00047	.00051*	.00036	.00336	.00035*	.08310	.00048	.00016	CCB10
117	IPA053SB	.01381	.00195	-.00220	-.00071	-.00001	.00161	-.00019	.02667	.00024	-.00013	IPA053SB
118	IPA053SL	5.2581	2.5473	.51299	.51250	.51038	.46770	.49146	52.564	.51222	.51124	IPA053SL
119	IPA053SC	5.2688	2.5556	.51471	.51446	.51252	.47220	.49203	52.623	.51414	.51319	IPA053SC
120	A251-06A	45.801	2.9822	.51717	.68659	.49935	.46508	.46766	54.783	.54916	.50521	A251-06A
121	A251-06	39.690	.58351	.01654	.19052	.00099	.01257	.00021	4.6163	.05566	.00699	A251-06
122	A251-06J	7.9210	.11480	.00309	.03646	.00025	.00268	.00010	.90958	.01151	.00146	A251-06J
123	A251-06M	87.099	2.4568	.50935	.70627	.50977	.47609	.47587	55.247	.57789	.51864	A251-06M
124	A251-06S	66.153	2.5155	.51682	.66442	.51720	.47743	.48540	56.210	.56536	.52205	A251-06S
125	Blank	.02281	.00241	.00017	.00060	.00033	.00110	.00037	.07576	.00039	.00031	Blank
126	CCV11	102.47	1.5042	.99671	1.9631	1.4530	2.3873	1.8361	73.272	2.3704	.93722	CCV11
127	CCB11	.00643	.00169	.00028	-.00053*	.00014	.00322	.00004	.05266	-.00005	.00018	CCB11
128	A251-01	33.555	.00212	.01783	.07196	.00117	.00725	-.00039	1.9547	.08281	.00657	A251-01
129	A251-02	52.924	.00080	.00535	.42311	.00114	.01458	-.00035	8.7177	.06717	.01218	A251-02
130	A251-03	33.466	.02891	.01033	.37850	.00094	.01119	.00517	11.063	.05959	.00953	A251-03
131	A251-04	28.073	.00350	.00643	.18960	.00071	.00775	.00168	5.2905	.04664	.00516	A251-04
132	A251-05	32.235	.00450	.00656	.25988	.00087	.00864	.00363	6.3482	.05545	.00654	A251-05
133	A251-07	.00772	-.00011	.00005	-.00077	.00006	-.00137	.00011	.03236	.00010	.00006	A251-07
134	A195-04T	19.790	.00327	.03399	.20074	.00206	-.00069	-.00001	2.7996	.11605	.02617	A195-04T
135	Blank	.00593	-.00026	.00122	-.00047	.00005	-.00033	.00011	-.00351	.00003	.00018	Blank
136	CCV12	102.00	1.5077	1.0027	1.9630	1.4562	2.4004	1.8586	73.303	2.3855	.93641	CCV12
137	CCB12	.00634	.00161	-.00036	-.00053*	.00013	.00323	.00003	.05226	.00010	.00007	CCB12
138	IPA052WB	.00458	.00079	-.00113	-.00086	-.00005	.00244	-.00005	-.00756	.00001	.00012	IPA052WB
139	IPA052WL	5.5939	2.5800	.52485	.50584	.50838	.50198	.49543	50.593	.50403	.48961	IPA052WL
140	IPA052WC	5.6051	2.5977	.53039	.50957	.51202	.50324	.49956	50.765	.50491	.49224	IPA052WC
141	A220-03A	5.6951	2.5423	.54026	.58852	.50740	.54726	.49020	111.26	.50306	.48720	A220-03A
142	A220-03	.00840	.00244	.00220	.08442	.00002	.05377	.00006	63.856	.00492	-.00023	A220-03
143	A220-03J	.00646	.00087	.00064	.01646	.00004	.01082	.00004	12.957	.00111	.00000	A220-03J
144	A220-03M	5.7075	2.6066	.53881	.59806	.51156	.55927	.49068	114.69	.50736	.48940	A220-03M
145	A220-03S	5.5199	2.5523	.52470	.58131	.49769	.54564	.47873	111.23	.49317	.47534	A220-03S
146	A220-02	.00918	.00201	.00295	.08603	.00004	.05145	.00003	62.392	.00804	-.00025	A220-02
147	Blank	.00402	.00030	-.00003	-.00047	.00005	.00047	.00013	.00272	.00009	.00021	Blank
148	CCV13	104.04	1.5195	1.0152	1.9753	1.4605	2.4067	1.8718	72.920	2.3853	.93758	CCV13
149	CCB13	.00650	.00165	-.00014	-.00055*	.00013	.00332	.00006	.05256	.00011	.00010	CCB13

ID8A028 Section 1 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00146	.00003	-.00003	.00005	-.00001	.00003	.00005	-.00057	-.00014	.00000	Blank
2	S20			.20182			.11364					S20
3	S21			1.9879			1.1283					S21
4	S22	.35415	.05632									S22
5	S23	3.5029	2.1514									S23
6	S24							.80186				S24
7	S25							8.0028				S25
8	S26								.81961	.32322		S26
9	S27								7.7352	3.2382		S27
10	S28					.10456						S28
11	S29					.43021						S29
12	S30				.02882						.00150	S30
13	S31				.14222						.00604	S31
14	ICV	2.4830	24.968	2.3886	.53370	57.729	2.3575	2.4432	2.4439	59.359	1.0316	ICV
15	ICB	.00028	-.00426	.00050	.00070	.01596	.00053*	.00053*	.00001	.11462*	.00043	ICB
16	MRLA2B03	.01046	.20669	.01007	.01026	.98024	.01030	.01012	.01003	1.0225	.01132	MRLA2B03
17	MRLA2804	.01078	.10040	.00324	.09947	.19855	.00541	.01011	.01002	.97226	.01035	MRLA2804
18	ICSA1	.00132	182.67	-.0015B	.00558	188.58	.00085	-.00196	-.00093	.10609	.00335	ICSA1
19	ICSAB1	.53158	185.57	.94246	1.1511	192.11	.46165	1.0333	.98569	79.619	1.0681	ICSA81
20	CCV1	2.4509	24.373	2.4189	.53247	56.381	2.3502	2.5274	2.4700	58.942	1.0330	CCV1
21	CCB1	.00015	-.00239	.00027	.00028	.01395	.00029	.00052*	-.00008	.14412*	.00104	CCB1
22	10I108	.00081	.00236	.00013	-.00014	.00220	.00032	.47390	-.00038	.07417	-.00007	10I108
23	10H054	.50548	5.4188	.5178B	.00000	.01553	.50902	.00049	.45180	.03773	.49869	10H054
24	10H055	.00076	.00213	-.00002	.00027	-.00168	.00024	.47206	-.00051	.03525	-.00055	10H055
25	10L107	.50849	5.3934	.50961	-.00001	.00824	.51194	.00036	.44678	.03513	.49924	10L107
26	CCV2	2.4725	24.677	2.3992	.53475	57.596	2.3869	2.5082	2.4524	58.970	1.0437	CCV2
27	CCB2	.00079	.00151	.00089	.00069	.02868	.00094*	.00091*	.00040	.09444	-.00033	CCB2
28	IPA045S8	.00001	.01455	.00067	-.00047	.01500	.00046	.00032	-.00010	.08265	.00053	IPA045SB
29	IPA045SL	.49263	5.0798	.48138	.52211	47.510	.47932	.52429	.46519	48.266	.49483	IPA045SL
30	IPA045SC	.48815	5.0401	.48224	.52190	46.888	.47904	.51918	.46524	48.036	.49079	IPA045SC
31	MDLV-01	.00196	.02757	.00235	.01045	.11298	.00207	.00495	.00203	.25213	.00516	MDLV-01
32	MDLV-02	.00008	.00073	.00050	.00039	.01452	.00101	.00020	-.00007	.09806	.00135	MDLV-02
33	MDLV-03	.00011	.01053	-.00055	-.00018	.01834	.00155	.00026	-.00012	.30517	.00106	MDLV-03
34	MRLA2805	.00976	.20564	.01020	.01047	.97066	.01004	.01006	.01008	.96495	.01092	MRLA2805
35	MRLA2806	.01007	.09895	.00322	.09709	.20121	.00532	.00985	.01039	.93931	.01134	MRLA2806
36	CCV3	2.4158	24.268	2.4120	.52929	56.678	2.3530	2.4892	2.4440	58.778	1.0217	CCV3
37	CCB3	.00062	.00179	.00051	.00038	.02506	.00085*	.00091*	.00030	.08297	.00114	CCB3
38	IPA039WQ	.00039	-.00170	.00051	-.00016	.00797	.00021	.00016	.00003	.06277	.00019	IPA039WQ
39	IPA039WX	.51409	5.3246	.50304	.00017*	49.411	.49536	.51954	.47376	50.051	.53183	IPA039WX
40	IPA039WY	.52679	5.4006	.51113	.00025*	48.761	.52134	.53018	.48264	49.371	.53981	IPA039WY
41	A135-02A	.54773	11.900	.50331	.00700	100.10	4.3214	.56181	.47576	58.671	.55725	A135-02A
42	A135-02W	.00164	6.9810	.00163	.00677	52.390	3.9470	.03694	.00033	5.5754	.00129	A135-02W
43	A135-02J	.00072	1.4248	.00021	.00116	10.330	.80162	.00700	-.00017	1.0820	.00063	A135-02J
44	A135-03W	.00208	5.2308	.00217	.00458	45.245	3.4383	.03913	.00057	5.8891	-.00007	A135-03W
45	A135-04W	.00167	5.0215	.00091	.00485	45.188	3.5166	.03924	.00028	5.8622	.00004	A135-04W
46	A135-05W	.00215	6.3974	.00140	.00477	45.462	2.8443	.04522	.00119	5.9707	-.00031	A135-05W
47	Blank	.00064	.00081	.00045	.00087	.01751	.00088	.00060	.00036	.09887	-.00011	Blank
48	CCV4	2.4415	23.918	2.4190	.53367	55.355	2.3163	2.5214	2.4597	58.626	1.0214	CCV4
49	CCB4	.00089	.00008	.00043	-.00028	.02372	.00085*	.00104*	.00041	.12771*	.00107	CCB4
50	IPA044SB	.00026	.00566	-.00001	-.00082	.01585	.00023	.00034	-.00019	.11792	.00088	IPA044SB
51	IPA044SL	.51833	5.1717	.49896	-.00003*	48.191	.48854	.54320	.48406	49.898	.50583	IPA044SL
52	IPA044SC	.51801	5.1759	.49990	.00037*	48.294	.49080	.54785	.48587	50.407	.50590	IPA044SC
53	A169-03A	.63430	497.56*	.57457	.03221	61.326	4.3659	.67648	.77615	56.435	.53485	A169-03A
54	A169-03	.09690	509.50*	.08207	.03062	14.351	3.9851	.14039	.30126	6.0717	.02841	A169-03

55	A169-03J	.01911	109.46	.01698	.00636	2.9402	.81672	.02657	.05920	1.1841	.00637	A169-03J
56	A169-03M	.64580	554.53*	.57894	.04524	64.395	4.0087	.69601	.82177	57.859	.53526	A169-03M
57	A169-03S	.61405	508.47*	.55544	.04731	63.634	.95569	.65515	.71027	56.477	.51801	A169-03S
58	Blank	.00068	.03771	.00109	-.00013	.02351	.00074	.00075	.00039	.10713	-.00020	Blank
59	CCV5	2.4323	23.878	2.3914	.53135	55.736	2.3210	2.4945	2.4365	58.544	1.0123	CCV5
60	CCB5	.00027	-.00085	-.00001	.00062	.02065	.00048	.00044*	-.00011	.08455	.00105	CCB5
61	A169-03A	.54475	113.30	.52122	.00705	51.394	1.3105	.54477	.53967	51.675	.52693	A169-03A
62	A169-03T	.01951	110.45	.01691	.00622	2.9702	.82664	.02667	.05950	1.2434	.00549	A169-03T
63	A169-03J	.00329	22.313	.00400	.00127	.60164	.16720	.00523	.01180	.27294	.00214	A169-03J
64	A169-03G	.12663	121.37	.11799	.00875	13.194	.84152	.13160	.16376	11.053	.10768	A169-03G
65	A169-03H	.12238	112.23	.11453	.00904	13.089	.19968	.12519	.14256	10.850	.10499	A169-03H
66	A169-01	.02803	80.106	.03184	.06222	20.468	.50436	.00109	.02708	13.599	.00102	A169-01
67	A169-02	.07631	96.703	.09481	.07142	21.435	.95436	.04551	.04069	19.853	.00417	A169-02
68	A135-06W	.00216	9.1521	.00168	.03441	124.99	2.7147	.05430	.00343	9.6132	.00026	A135-06W
69	A135-07W	.00288	3.1220	.00113	.00547	39.832	3.0743	.04376	.00086	6.1597	.00106	A135-07W
70	Blank	.00053	.00014	.00043	.00034	.01958	.00104	.00059	.00030	.10371	.00057	Blank
71	CCV6	2.4256	23.746	2.4012	.52850	54.651	2.2803	2.5209	2.4495	57.949	1.0130	CCV6
72	CCB6	.00143*	.01349	.00154	.00033	.03678	.00189*	.00116*	.00120*	.14890*	.00072	CCB6
73	IPA048SB	.00022	.00776	.00033	-.00027	.00938	.00001	.00029	-.00009	.08946	.00110	IPA048SB
74	IPA048SL	.51931	5.2757	.51838	.00042*	48.540	.49126	.56660	.50021	51.089	.51167	IPA048SL
75	IPA048SC	.52309	5.2971	.52380	.00055*	48.902	.49628	.57246	.50398	51.805	.51082	IPA048SC
76	A219-11A	.61164	216.60	.70324	.04855	53.690	4.2821	.54536	.52726	54.746	.49899	A219-11A
77	A219-11	.10309	221.21	.22154	.04707	7.9961	4.0278	.01057	.05479	5.6699	.00633	A219-11
78	A219-11J	.02093	46.610	.04582	.00912	1.6762	.83633	.00215	.01071	1.1565	.00204	A219-11J
79	A219-11M	.60019	226.74	.70191	.08577	59.837	3.5911	.55274	.54898	61.062	.52044	A219-11M
80	A219-11S	.60419	235.52	.71530	.08994	62.485	5.8608	.55328	.55125	61.152	.51953	A219-11S
81	A219-01	.05694	171.82	.18517	.04638	6.3160	3.5805	.00813	.05868	5.8348	.00700	A219-01
82	Blank	.00121	.02357	.00082	-.00006	.03134	.00197	.00095	.00093	.07272	.00048	Blank
83	CCV7	2.5328	24.503	2.4065	.54058	56.601	2.3601	2.5357	2.4727	58.813	1.0527	CCV7
84	CCB7	.00078	.00207	.00056	.00060	.02933	.00083*	.00096*	.00041	.09821	.00138	CCB7
85	A219-02	.06523	265.38	.16173	.05383	6.4292	2.8376	.01030	.09203	6.3992	.00707	A219-02
86	A219-03	.07868	251.12	.21938	.06066	6.9869	2.5152	.00993	.10674	8.0037	.00896	A219-03
87	A219-04	.06407	281.19	.16870	.06650	5.7951	1.8646	.01333	.10359	7.4771	.00961	A219-04
88	A219-05	.10702	314.98	.28168	.07147	11.649	2.4939	.01289	.10088	8.7548	.01087	A219-05
89	A219-06	.08966	311.88	.27117	.05356	8.1445	2.6152	.01158	.09636	7.1911	.00915	A219-06
90	A219-07	.08490	210.98	.18160	.07373	8.1964	2.4851	.00967	.08129	8.6586	.00926	A219-07
91	A219-08	.06117	226.32	.22683	.04264	5.6000	3.3177	.01058	.05022	5.6036	.00854	A219-08
92	A219-09	.05434	222.21	.18224	.04413	5.6235	3.1301	.00947	.05557	5.4385	.00899	A219-09
93	A219-10	.05187	145.49	.20243	.03654	5.8401	2.7573	.00651	.04366	5.0453	.00660	A219-10
94	Blank	.00061	.01087	.00053	.00060	.01862	.00100	.00065	.00038	.02772	.00089	Blank
95	CCV8	2.4350	24.105	2.4160	.53067	55.364	2.3048	2.5403	2.4643	58.386	1.0223	CCV8
96	CCB8	.00083	.00152	.00088	.00056	.01902	.00094*	.00094*	.00024	.08752	.00147	CCB8
97	A187-01	42.653*	1191.0*	4.0848	.22391	515.53	18.542	.24925	1.4391	413.61	.31408	A187-01
98	A209-03	.10169	173.31	.93098	.06093	7.7692	2.7097	.00642	.11316	6.2075	.00744	A209-03
99	A209-04	.10132	328.28	.24435	.10859	16.368	2.2749	.01226	.17037	10.516	.01230	A209-04
100	A209-07	.15966	303.68	1.6821	.09664	11.618	2.4695	.00952	.21907	8.7369	.01632	A209-07
101	A209-09	.07509	305.67	.25456	.04078	4.6479	2.9778	.01048	.11996	5.3272	.00741	A209-09
102	Blank	.00072	.02250	.00065	.00011	.01668	.00102	.00062	.00026	.05074	-.00023	Blank
103	CCV9	2.4355	24.021	2.4249	.52802	55.419	2.3102	2.5446	2.4678	58.208	1.0248	CCV9
104	CCB9	.00084	.00582	.00079	.00047	.02754	.00082*	.00102*	.00037	.09125	.00090	CCB9
105	IPA047SB	.00170	.08128	.00032	.00040	.19748	.00366	.00051	.00302	.18069	.00780*	IPA047SB
106	IPA047SL	.53437	5.3971	.52349	.00101*	49.760	.50459	.56538	.51006	51.354	.55989	IPA047SL
107	IPA047SC	.52948	5.3264	.52089	.00123*	49.546	.50205	.56814	.50576	51.635	.55262	IPA047SC
108	A200-03A	.61460	12.533	3.9165	.00244	47.828	.53763	.52022	.51467	49.015	.51476	A200-03A
109	A200-03T	.10731	7.5433	3.4782	.00176	.72886	.06001	.00666	.04530	.53995	.00118	A200-03T
110	A200-03J	.02065	1.4653	.67165	.00047	.14681	.01209	.00131	.00919	.14053	.00076	A200-03J
111	A200-01T	1.6099	53.625	18.040	.01197	4.5779	.47230	.23710	.73783	3.2188	.00693	A200-01T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	A200-02T	.08381	3.3623	.38403	.00090	.62995	.03847	.00867	.03292	.45944	.00079	A200-02T
113	A133-01T	2.0950	76.479	9.9541	.02928	14.728	.82313	.19294	.75656	8.6247	.00581	A133-01T
114	A133-02T	.82353	55.328	12.938	.01903	9.0549	.68806	.09689	.73224	6.3897	.00239	A133-02T
115	CCV10	2.4519	23.848	2.4223	.53088	55.237	2.3072	2.5402	2.4683	58.505	1.0203	CCV10
116	CCB10	.00072	.00217	.00094	.00043	.02598	.00089*	.00095*	.00033	.09198	.00079	CCB10
117	IPA053SB	.00119	.01078	-.00008	.00001	.01149	.00043	.00044	.00156	.06025	.00088	IPA053SB
118	IPA053SL	.51151	5.2241	.51268	-.00019*	48.517	.48790	.56344	.49470	50.596	.50420	IPA053SL
119	IPA053SC	.51443	5.2096	.51473	.00010*	48.406	.49186	.56520	.49775	50.963	.50616	IPA053SC
120	A251-06A	1.1520	39.766	45.263	.01788	48.455	.65188	.53131	.50894	52.882	.49550	A251-06A
121	A251-06	.65848	36.344	47.145	.01692	2.3304	.18388	.00305	.03286	4.1025	.00155	A251-06
122	A251-06J	.12836	7.2549	9.2489	.00356	.47584	.03629	.00078	.00634	.80906	.00037	A251-06J
123	A251-06M	1.1251	44.465	5.6082	.04227	49.997	.65811	.54939	.56703	54.560	.50125	A251-06M
124	A251-06S	.98707	34.329	4.3507	.03056	50.439	.62827	.55608	.55263	54.104	.50985	A251-06S
125	Blank	.00073	.00300	.00079	-.00016	.02898	.00060	.00080	.00027	.08606	.00056	Blank
126	CCV11	2.4257	23.647	2.3990	.52753	54.608	2.2854	2.5230	2.4465	58.383	.99595	CCV11
127	CCB11	.00039	-.00068	.00015	.00013	.01772	.00034	.00048*	.00003	.07707	.00088	CCB11
128	A251-01	.01668	37.998	.04463	.00985	3.6808	.10395	.00194	.02518	5.2020	.00245	A251-01
129	A251-02	.01907	45.191	.13395	.03057	3.9547	.90961	.00346	.05076	2.8496	.00114	A251-02
130	A251-03	.25860	35.333	3.5533	.01429	3.3391	.91938	.00277	.03595	4.2941	.00172	A251-03
131	A251-04	.05102	24.953	.22317	.01206	2.1775	.42410	.00181	.02353	4.3340	.00205	A251-04
132	A251-05	.09147	29.226	.44660	.01430	2.6479	.41949	.00240	.02712	4.8112	.00209	A251-05
133	A251-07	.00098	.00089	.00014	.00035	.01678	.00038	.00007	.00026	.03218	.00014	A251-07
134	A195-04T	.01482	95.619	.05343	.00679	1.0212	.72144	.00318	.02304	1.0053	.00283	A195-04T
135	Blank	.00026	.00225	.00042	.00033	.00943	.00028	.00018	.00000	.01962	.00009	Blank
136	CCV12	2.4319	23.676	2.4002	.52637	54.821	2.2921	2.5204	2.4489	58.263	1.0062	CCV12
137	CCB12	.00037	-.00390	.00033	.00002	.01316	.00038	.00044*	.00000	.05913	.00085	CCB12
138	IPA052WB	.00047	-.00523	.00001	.00015	.00792	.00049	.00000	-.00007	.02375	.00007	IPA052WB
139	IPA052WL	.51555	5.1219	.50893	.00058*	46.846	.48167	.52242	.47627	49.519	.52318	IPA052WL
140	IPA052WC	.51785	5.2220	.51657	.00063*	47.116	.48382	.52594	.47940	49.531	.52832	IPA052WC
141	A220-03A	.52046	5.5377	.50534	.03273	57.845	.49671	.51723	.47253	51.534	.53311	A220-03A
142	A220-03	.00095	.41426	.00029	.03180	11.866	.02036	.00320	.00283	2.2791	.00221	A220-03
143	A220-03J	.00053	.08132	.00014	.00611	2.4223	.00430	.00072	.00045	.49051	-.00041	A220-03J
144	A220-03M	.52248	5.5722	.50753	.03424	59.446	.50155	.53143	.47727	52.999	.53411	A220-03M
145	A220-03S	.50678	5.3975	.49190	.03309	58.007	.48823	.51609	.46351	51.861	.52006	A220-03S
146	A220-02	.00107	.00537	.00073	.03018	11.584	.00052	.00317	-.00009	2.2258	.00123	A220-02
147	Blank	.00031	-.00324	.00045	.00036	.00351	.00019	.00018	.00011	.04823	.00021	Blank
148	CCV13	2.4649	23.729	2.4000	.52916	54.666	2.2924	2.5251	2.4496	58.235	1.0198	CCV13
149	CCB13	.00032	-.00444	.00018	-.00004	.01735	.00029	.00057*	-.00001	.10125	-.00071	CCB13

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ID8A028 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00008	.00082	-.00007	-.00002	.00009	.00000	-.00010	.00131	Blank
2	S20									S20
3	S21									S21
4	S22							.14420		S22
5	S23							1.4444		S23
6	S24		1.0661							S24
7	S25		6.2235							S25
8	S26									S26
9	S27									S27
10	S28				.00619					S28
11	S29				.05824					S29
12	S30	.04281		.13527		.02509	.01634		.58264	S30
13	S31	.21315		.67179		.12138	.08105		5.6370	S31
14	ICV	.50880	63.058	.49373	2.3640	.49342	.49925	1.4550	2.6275	ICV
15	ICB	.00013	.04616	.00009	.00029	-.00014	.00010	.00018	-.00131	ICB
16	MRLA2803	.01036	1.0522	.01021	.01095	-.00004	.01034	.01009	.02370	MRLA2803
17	MRLA2804	.01026	.52320	.01047	.01116	.01029	.01027	.01018	.00941	MRLA2804
18	ICSA1	.00027	.07405	.02095	.00157	.00186	.00206	.00166	.00114	ICSA1
19	ICSAB1	1.1026	83.061	.52036	.84911	1.0167	.99072	.47833	1.0684	ICSAB1
20	CCV1	.50141	62.196	.48876	2.3371	.52411	.49070	1.4245	2.6669	CCV1
21	CCB1	.00000	.05437	.00001	.00026	.00004	.00033	.00011	-.00169	CCB1
22	10I108	.00008	.03206	.47582	.00049	.49370	.50183	.00008	.00162	10I108
23	10H054	.50565	.01991	.00014	.55997	.00017	.00000	.48974	.53320	10H054
24	10H055	.00007	.01201	.47916	.00021	.49165	.50646	-.00006	.00062	10H055
25	10L107	.51042	.01453	.00013	.56493	.00038	-.00029	.49681	.52498	10L107
26	CCV2	.51057	62.378	.48923	2.3882	.51549	.49564	1.4575	2.6654	CCV2
27	CCB2	.00022	.04890	.00020	.00056	-.00007	.00022	.00049	.00531	CCB2
28	IPA045SB	-.00005	.02825	.00010	-.00097	.03320	.00031	.00018	.00407	IPA045SB
29	IPA045SL	.47957	51.319	.47943	.47018	.53844	.50502	.49375	.54588	IPA045SL
30	IPA045SC	.47964	50.960	.47660	.46353	.53407	.49973	.49070	.54513	IPA045SC
31	MDLV-01	.00213	.15202	.00197	.00500	.01936	.01030	.00475	.00472	MDLV-01
32	MDLV-02	-.00005	.04902	.00005	-.00115	.03800	.00017	.00023	.00018	MDLV-02
33	MDLV-03	-.00004	.04324	-.00002	-.00050	.03954	.00027	.00021	.00021	MDLV-03
34	MRLA2805	.00997	1.0285	.01006	.01141	.00000	.01015	.00954	.02306	MRLA2805
35	MRLA2806	.01009	.51507	.01020	.01138	.01036	.01008	.00976	.00934	MRLA2806
36	CCV3	.50193	62.052	.48708	2.3342	.52032	.48991	1.4135	2.6631	CCV3
37	CCB3	.00025	.04578	.00019	.00049	.00033	.00052	.00025	.00254	CCB3
38	IPA039WQ	.00009	.02283	.00006	.00020	-.00006	.00026	-.00003	.00193	IPA039WQ
39	IPA039WX	.52102	53.056	.49764	.51441	.51586	.52521	.51056	.55049	IPA039WX
40	IPA039WY	.52654	52.375	.50262	.52372	.52243	.53130	.51764	.56071	IPA039WY
41	A135-02A	.54465	213.95	2.3161	.47784	.50602	.51601	.51575	.56059	A135-02A
42	A135-02W	.00004	165.37	1.8889	-.00119	-.00025	.00815	.00032	.00863	A135-02W
43	A135-02J	.00129	32.361	.37307	-.00032	.00047	.00224	.00003	.00221	A135-02J
44	A135-03W	-.00006	171.55	1.7288	-.00117	.00015	.03430	.00100	.00653	A135-03W
45	A135-04W	-.00015	168.76	1.7375	-.00119	.00075	.01749	.00039	.00610	A135-04W
46	A135-05W	-.00012	157.88	1.6410	-.00093	.00039	.00681	.00038	.00685	A135-05W
47	Blank	.00011	.14204	.00041	.00060	.00017	-.00001	.00031	.00333	Blank
48	CCV4	.50037	62.070	.48631	2.3051	.52457	.48674	1.4028	2.6412	CCV4
49	CCB4	.00013	.08513*	.00024	.00102*	.00007	.00081	.00026	.00280	CCB4
50	IPA044SB	.00000	.06485	.00003	-.00058	.03246	.00038	.00003	.00166	IPA044SB
51	IPA044SL	.49741	53.105	.49256	.48041	.54770	.51460	.50865	.55740	IPA044SL
52	IPA044SC	.49803	53.385	.49861	.47895	.54906	.52099	.50707	.55619	IPA044SC
53	A169-03A	.49854	61.288	.70854	.44038	.54453	3.4236	1.7928	1.4393	A169-03A
54	A169-03	-.00369	8.2934	.23048	-.00492	.04864	2.9646	1.3213	.90022	A169-03

55	A169-03J	-.00075	1.6128	.04568	-.00006	.00965	.59813	.26407	.17334	A169-03J
56	A169-03M	.51157	63.176	.72746	.43739	.56385	3.9604	2.6834	1.5180	A169-03M
57	A169-03S	.49442	61.407	.69570	.42414	.54998	3.8246	2.7187	1.3800	A169-03S
58	Blank	.00035	.03570	.00023	.00077	.00020	.00151	.00047	.00361	Blank
59	CCV5	.50034	61.838	.48417	2.3056	.51690	.48470	1.4063	2.6148	CCV5
60	CCB5	.00013	.02539	.00005	.00077	.00002	.00045	.00007	.00139	CCB5
61	A169-03A	.50450	54.895	.53145	.48662	.51291	1.1087	.77615	.73539	A169-03A
62	A169-03T	-.00078	1.6490	.04625	.00032	.00951	.60149	.26929	.17397	A169-03T
63	A169-03J	-.00021	.32008	.00936	.00012	.00175	.12069	.05422	.03302	A169-03J
64	A169-03G	.09990	12.251	.14628	.10185	.11169	.81159	.55429	.29718	A169-03G
65	A169-03H	.09767	11.983	.14063	.09901	.10974	.78323	.56603	.27109	A169-03H
66	A169-01	-.00021	6.2522	.21813	.00045	.03989	2.4365	.21571	.19973	A169-01
67	A169-02	-.00030	7.2906	.37725	-.00064	.04441	1.7337	.15364	.32961	A169-02
68	A135-06W	.00010	403.96	3.5550	-.00120	-.00023	.00479	.00051	.00753	A135-06W
69	A135-07W	-.00009	159.89	1.6006	-.00091	.00025	.05319	.00206	.00452	A135-07W
70	Blank	.00018	.10642	.00041	.00046	.00009	.00062	.00036	.00344	Blank
71	CCV6	.49418	61.457	.47974	2.2760	.52369	.48256	1.3842	2.6100	CCV6
72	CCB6	.00044	.08382*	.00060*	.00107*	.00037	.00056	.00069*	.03932*	CCB6
73	IPA048SB	-.00019	.04873	.00008	-.00103	.03416	.00023	.00002	.00097	IPA048SB
74	IPA048SL	.50324	54.349	.50284	.47878	.57665	.52758	.50355	.57541	IPA048SL
75	IPA048SC	.50697	54.970	.50773	.47861	.58439	.53128	.50794	.57968	IPA048SC
76	A219-11A	.48015	52.438	.58973	.43996	.55209	1.4702	.86409	2.2040	A219-11A
77	A219-11	-.00038	.56657	.11870	-.00073	.04206	1.0081	.40956	1.7075	A219-11
78	A219-11J	-.00009	.12175	.02389	.00012	.00865	.20425	.08425	.33314	A219-11J
79	A219-11M	.52947	55.956	.65767	.46804	.56031	1.8964	.96787	3.9310	A219-11M
80	A219-11S	.52724	55.517	.66322	.46466	.55434	1.9353	.98129	2.0029	A219-11S
81	A219-01	-.00017	.24896	.09241	-.00156	.03942	1.0286	.32567	.41253	A219-01
82	Blank	.00030	.04088	.00052	.00087	.00075	.00076	.00065	.03120	Blank
83	CCV7	.51134	62.406	.49007	2.3950	.51671	.49529	1.4622	2.6370	CCV7
84	CCB7	.00019	.04632	.00026	.00058	.00037	.00047	.00043	.00354	CCB7
85	A219-02	-.00018	.25053	.09492	.00018	.04135	1.0888	.39017	.40872	A219-02
86	A219-03	-.00003	.24805	.07205	.00007	.04114	1.0408	.36460	8.5834	A219-03
87	A219-04	-.00012	.20512	.06188	.00062	.04073	.97858	.36848	.72908	A219-04
88	A219-05	-.00001	.26564	.09217	.00066	.04250	.97227	.40008	2.2268	A219-05
89	A219-06	-.00018	.24434	.06760	.00052	.04152	.86259	.38300	1.9789	A219-06
90	A219-07	-.00032	.25620	.07795	-.00011	.04167	.85485	.31016	1.4263	A219-07
91	A219-08	-.00024	.26491	.10440	-.00087	.04120	.87053	.37375	.44989	A219-08
92	A219-09	-.00022	.28008	.11197	.00004	.03944	.91372	.38440	.33401	A219-09
93	A219-10	-.00031	.35396	.09869	-.00089	.03930	.79883	.26900	1.9031	A219-10
94	Blank	.00013	.00699	.00020	.00069	.00011	.00079	.00031	.00360	Blank
95	CCV8	.49724	61.773	.48359	2.3050	.52765	.48833	1.3958	2.6380	CCV8
96	CCB8	.00016	.03188	.00024	.00040	.00004	-.00008	.00031	.00278	CCB8
97	A187-01	.14268	1365.9*	5.0145	-.07083*	2.8218	.73354	.43721	75.216*	A187-01
98	A209-03	-.00027	.57983	.10625	-.00123	.10038	.68667	.26073	12.863	A209-03
99	A209-04	.00002	.96245	.14989	.00170	.04587	1.2496	.43873	1.8517	A209-04
100	A209-07	-.00002	.50660	.12241	.00143	.04673	.98140	.37088	20.310	A209-07
101	A209-09	.00001	.20724	.06595	.00083	.04292	1.2276	.39368	.73898	A209-09
102	Blank	.00017	.01192	.00019	.00030	.00015	.00061	.00034	.00357	Blank
103	CCV9	.49753	61.604	.48426	2.3140	.52766	.48776	1.3998	2.6406	CCV9
104	CCB9	.00016	.03247	.00021	.00075	-.00017	.00039	.00019	.00258	CCB9
105	IPA047SB	.00000	4.1775*	.00631*	-.00439	.03789	.11491	.00017	.05477*	IPA047SB
106	IPA047SL	.50595	58.684	.51035	.47642	.57545	.62486*	.51779	.65038*	IPA047SL
107	IPA047SC	.50462	59.826	.51454	.47294	.57798	.61767*	.51454	.61872*	IPA047SC
108	A200-03A	.48529	53.503	.49659	.47939	.52602	.69487	.48987	3.4676	A200-03A
109	A200-03T	.00139	2.1889	.03184	.00024	.01459	.19148	.00551	2.8150	A200-03T
110	A200-03J	.00027	.48972	.00622	.00090	.00305	.03549	.00108	.53957	A200-03J
111	A200-01T	.01671	7.5966	.69569	.00064	.12663	.88185	.07398	21.603	A200-01T

112	A200-02T	.00234	1.0788	.04594	.00032	.00981	.11503	.00527	.68839	A200-02T
113	A133-01T	.02593	7.4617	.46899	.00039	.15120	1.6188	.11460	11.076	A133-01T
114	A133-02T	.00392	18.758	.20590	.00016	.09898	1.0323	.07073	18.117	A133-02T
115	CCV10	.50058	61.886	.48508	2.2941	.52707	.48747	1.3988	2.6294	CCV10
116	CCB10	.00012	.03519	.00027	.00062	.00053	.00031	.00030	.00370	CCB10
117	IPA053SB	.00003	.02868	.00008	-.00137	.03800	.00053	.00009	.00428	IPA053SB
118	IPA053SL	.49892	53.692	.49781	.47431	.57560	.52506	.49943	.56857	IPA053SL
119	IPA053SC	.50132	53.919	.50306	.47617	.57617	.52450	.50192	.57001	IPA053SC
120	A251-06A	.47864	52.166	.53787	.45053	.55212	2.1088	.56990	.63020	A251-06A
121	A251-06	.00109	.67097	.06849	-.00118	.04700	1.6644	.09254	.08655	A251-06
122	A251-06J	.00025	.13162	.01334	.00053	.00890	.32213	.01788	.01615	A251-06J
123	A251-06M	.50373	54.130	.56811	.45712	.56241	2.4584	.59103	.64344	A251-06M
124	A251-06S	.50635	54.570	.56123	.46587	.57058	2.0206	.57212	.62903	A251-06S
125	Blank	.00017	.03341	.00027	.00073	.00015	.00099	.00033	.00333	Blank
126	CCV11	.49404	61.596	.48275	2.2463*	.52075	.48207	1.3865	2.6013	CCV11
127	CCB11	.00017	.02808	.00012	.00061	-.00003	.00031	.00011	.00142	CCB11
128	A251-01	-.00001	.62698	.03572	-.00023	.03459	1.3192	.07744	.03919	A251-01
129	A251-02	.00005	.93742	.12796	-.00112	.03706	2.2134	.11728	.03661	A251-02
130	A251-03	.00004	.58261	.13663	-.00090	.03691	1.1584	.08943	.11922	A251-03
131	A251-04	-.00011	.46824	.06699	-.00073	.03441	1.0594	.07247	.05544	A251-04
132	A251-05	-.00008	.53583	.08552	-.00046	.03644	1.1125	.08268	.10491	A251-05
133	A251-07	.00003	.02694	.00001	.00008	-.00005	.00071	.00003	.01226	A251-07
134	A195-04T	.00005	.10629	.01248	.00122	.00882	.22738	.10877	.10312	A195-04T
135	Blank	.00006	-.00320	.00006	.00058	.00013	.00039	.00010	-.00038	Blank
136	CCV12	.49776	61.509	.48293	2.2698	.52009	.48214	1.3947	2.6105	CCV12
137	CCB12	.00009	.01611	.00010	.00003	.00014	.00020	.00008	.00149	CCB12
138	IPA052WB	-.00006	.00911	.00003	.00014	.00004	.00038	-.00002	.00035	IPA052WB
139	IPA052WL	.51666	52.565	.49461	.49457	.51973	.51125	.49291	.54424	IPA052WL
140	IPA052WC	.51714	52.752	.49475	.49983	.52510	.51419	.49349	.55328	IPA052WC
141	A220-03A	.50334	93.616	1.2563	.48283	.51055	.49796	.49290	.56071	A220-03A
142	A220-03	-.00003	42.856	.81539	.00060	.00015	.00140	.00383	.01881	A220-03
143	A220-03J	.00011	8.4755	.16496	.00026	.00037	.00060	.00089	.00328	A220-03J
144	A220-03M	.52380	96.997	1.3178	.48100	.52564	.51360	.49815	.56621	A220-03M
145	A220-03S	.50990	94.395	1.2801	.46917	.51186	.50153	.48460	.54747	A220-03S
146	A220-02	.00010	41.516	.79493	.00035	.00104	.00148	.00560	.03944	A220-02
147	Blank	.00018	.02977	.00018	.00027	.00010	.00028	.00017	-.00058	Blank
148	CCV13	.50007	61.506	.48329	2.2909	.51962	.48461	1.4042	2.6000	CCV13
149	CCB13	.00015	.03578	.00010	-.00022	.00037	.00028	.00013	.00148	CCB13
INDX	LSID	Ag	Na	Sr	Ti	Sn	Ti	V	Zn	LSID

ID8A028 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
DIGESTOR D

Book #: EIP-098
Batch: IPA048S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

1/27/11 Start	Temp	1/27/11 End	Temp
1125	90 °c	1425	90 °c

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-02-11	0.5
LCS-2	12	0.5
LCS-3	13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101983555

Prepared By: LK/MJM
Standard Added By: LK/MJM Witnessed By: MJM
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA048S01	IPA048SB	1	g	1/27/11 10:15	100	1	100	1	
11IPA048S02	IPA048SL	1	g	1/27/11 10:15	100	1	100	1	
11IPA048S03	IPA048SC	1	g	1/27/11 10:15	100	1	100	1	
11IPA048S04	A209-03	1.087	g	1/27/11 10:16	100	1	100	0.92	DRIED AND SIEVED
11IPA048S05	A209-04	1.081	g	1/27/11 10:16	100	1	100	0.925	DRIED AND SIEVED
11IPA048S06	A209-07	1.037	g	1/27/11 10:18	100	1	100	0.964	DRIED AND SIEVED
11IPA048S07	A209-09	1.015	g	1/27/11 10:19	100	1	100	0.985	DRIED AND SIEVED
11IPA048S08	A219-01	1.073	g	1/27/11 10:22	100	1	100	0.932	
11IPA048S09	A219-02	1.015	g	1/27/11 10:23	100	1	100	0.985	
11IPA048S10	A219-03	1.069	g	1/27/11 10:24	100	1	100	0.935	
11IPA048S11	A219-04	1.042	g	1/27/11 10:26	100	1	100	0.96	
11IPA048S12	A219-05	1.085	g	1/27/11 10:29	100	1	100	0.922	
11IPA048S13	A219-06	1.047	g	1/27/11 10:29	100	1	100	0.955	
11IPA048S14	A219-07	1.083	g	1/27/11 10:31	100	1	100	0.923	
11IPA048S15	A219-08	1.076	g	1/27/11 10:32	100	1	100	0.929	
11IPA048S16	A219-09	1.052	g	1/27/11 10:34	100	1	100	0.951	
11IPA048S17	A219-10	1.04	g	1/27/11 10:36	100	1	100	0.962	
11IPA048S18	A219-11	1.062	g	1/27/11 10:36	100	1	100	0.942	
11IPA048S19	A219-11M	1.06	g	1/27/11 10:42	100	1	100	0.943	
11IPA048S20	A219-11S	1.062	g	1/27/11 10:43	100	1	100	0.942	
11IPA048S21	A187-01	1.08	g	1/27/11 10:44	100	1	100	0.926	

LK 1/27/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/27/11 11:25 Prepared By: LK/MJM

☑ Digestion Ended @ 1/27/11 13:25 Checked By: TH

Comments: Date 1/27/2011

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11A219**

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GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7036 7037 – 7085
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 02-03-2011
EMAX Batch No.: 11A219

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 01/26/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CP093-S3-04-01	A219-01	01/24/11	SOIL	CADMIUM
CP093-S3-04-02	A219-02	01/24/11	SOIL	CADMIUM
CP093-S3-05-01	A219-03	01/24/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S3-05-02	A219-04	01/24/11	SOIL	CADMIUM
CP093-S3-06-01	A219-05	01/24/11	SOIL	CADMIUM
CP093-S3-06-01FD	A219-06	01/24/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S3-06-02	A219-07	01/24/11	SOIL	CADMIUM
CP093-S3-07-01	A219-08	01/24/11	SOIL	CADMIUM
CP093-S3-07-02	A219-09	01/24/11	SOIL	CADMIUM
CP093-S3-08-01	A219-10	01/24/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S3-08-02	A219-11	01/24/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Chain of Custody Record

11A219

CH-1102.

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client CH2M HILL, Inc.	***Project Manager*** John Ynfante		***Date*** January 25, 2011	***Chain of Custody Number*** 1 of 1
Address 14701 St. Mary's Lane, Suite 300	***Telephone Number*** (281) 721-8546	***Fax Number*** (281) 721-8401		
City/State/Zip Houston, TX 77079	***Site Contact:*** John Ynfante	***PO Number:*** Contact John Ynfante	***EMAX Control Number***	
Project Name Tar Creek OU4	***Carrier/Waybill Number*** 794355984120	***CH2M HILL Project Number:*** 413831.CV.01		
Samplers: SP/PG/KT				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb - sieved	Zn	Cd					Comments
1	CP093-S3-04-01	January 24, 2011	9:10	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
2	CP093-S3-04-02	January 24, 2011	9:15	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
3	CP093-S3-05-01	January 24, 2011	9:45	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
4	CP093-S3-05-02	January 24, 2011	9:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
5	CP093-S3-06-01	January 24, 2011	10:15	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
6	CP093-S3-06-01FD	January 24, 2011	10:15	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
7	CP093-S3-06-02	January 24, 2011	10:20	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
8	CP093-S3-07-01	January 24, 2011	11:45	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
9	CP093-S3-07-02	January 24, 2011	11:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
10	CP093-S3-08-01	January 24, 2011	12:20	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
11	CP093-S3-08-02	January 24, 2011	12:25	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only

Turnaround Time 7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T = 13.2°C

1. Relinquished By Kui Tan	***Date:*** January 25, 2011	***Time:*** 18:00	***1. Received By:*** FedEX	***Date:***	***Time:***
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***	
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:*** 1/26/11	0930

Comments
Sieve lead samples with #60 sieve. All samples shall also be analyzed for percent moniture content.

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11A219
☐ EMAX Courier		Recepient J-LUNA
☐ Client Delivery		Date 1-26-11
☑ Third Party FEDEX	794335984120	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen) A	☑ Cooler 1 3.2 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling _____ Date 1/26/11

SRF _____ Date 1/26/11

PM LP for YQ Date 1/26/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: (281) 721-8534
Kui Tan
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11101012220225

Ship Date: 25JAN11
ActWgt: 30.0 LB
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Ref # 413831.CV.01/AAB00103032
Invoice #
PO #
Dept #

11A219

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

WED - 26 JAN A1
STANDARD OVERNIGHT

TRK# 7943 5598 4120
0201

90501
CA-US
LAX

A7 AVXA

500G1/DE77/FEFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11A219

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A219

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of eleven (11) soil samples were received on 01/26/11 for Metals by ICP analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA048SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for A219-11M/S were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A219
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA048SB	1	NA	01/28/1120:09	01/27/1111:25	ID8A028073	ID8A028071	IPA048S	Method Blank
LCS1S	IPA048SL	1	NA	01/28/1120:12	01/27/1111:25	ID8A028074	ID8A028071	IPA048S	Lab Control Sample (LCS)
LCD1S	IPA048SC	1	NA	01/28/1120:15	01/27/1111:25	ID8A028075	ID8A028071	IPA048S	LCS Duplicate
CP093-S3-08-02AS	A219-11A	0.942	18.1	01/28/1120:17	01/27/1111:25	ID8A028076	ID8A028071	IPA048S	Analytical Spike Sample
CP093-S3-08-02	A219-11	0.942	18.1	01/28/1120:20	01/27/1111:25	ID8A028077	ID8A028071	IPA048S	Field Sample
CP093-S3-08-02DL	A219-11J	4.71	18.1	01/28/1120:23	01/27/1111:25	ID8A028078	ID8A028071	IPA048S	Diluted Sample
CP093-S3-08-02MS	A219-11M	0.943	18.1	01/28/1120:25	01/27/1111:25	ID8A028079	ID8A028071	IPA048S	Matrix Spike Sample (MS)
CP093-S3-08-02MSD	A219-11S	0.942	18.1	01/28/1120:28	01/27/1111:25	ID8A028080	ID8A028071	IPA048S	MS Duplicate (MSD)
CP093-S3-04-01	A219-01	0.932	19.3	01/28/1120:31	01/27/1111:25	ID8A028081	ID8A028071	IPA048S	Field Sample
CP093-S3-04-02	A219-02	0.985	17.2	01/28/1120:42	01/27/1111:25	ID8A028085	ID8A028083	IPA048S	Field Sample
CP093-S3-05-02	A219-04	0.960	18.8	01/28/1120:47	01/27/1111:25	ID8A028087	ID8A028083	IPA048S	Field Sample
CP093-S3-06-01	A219-05	0.922	18.4	01/28/1120:50	01/27/1111:25	ID8A028088	ID8A028083	IPA048S	Field Sample
CP093-S3-06-02	A219-07	0.923	20.5	01/28/1120:56	01/27/1111:25	ID8A028090	ID8A028083	IPA048S	Field Sample
CP093-S3-07-01	A219-08	0.929	19.1	01/28/1120:59	01/27/1111:25	ID8A028091	ID8A028083	IPA048S	Field Sample
CP093-S3-07-02	A219-09	0.951	18.1	01/28/1121:01	01/27/1111:25	ID8A028092	ID8A028083	IPA048S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected	: 01/24/11 09:10
Project	: TAR CREEK OU4	Date Received	: 01/26/11
SDG NO.	: 11A219	Date Extracted	: 01/27/11 11:25
Sample ID	: CP093-S3-04-01	Date Analyzed	: 01/28/11 20:31
Lab Samp ID	: A219-01	Dilution Factor	: 0.932
Lab File ID	: ID8A028081	Matrix	: SOIL
Ext Btch ID	: IPA048S	% Moisture	: 19.3
Calib. Ref.	: ID8A028071	Instrument ID	: EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.15	0.115

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected	: 01/24/11 09:15
Project	: TAR CREEK OU4	Date Received	: 01/26/11
SDG NO.	: 11A219	Date Extracted	: 01/27/11 11:25
Sample ID	: CP093-S3-04-02	Date Analyzed	: 01/28/11 20:42
Lab Samp ID	: A219-02	Dilution Factor	: 0.985
Lab File ID	: ID8A028085	Matrix	: SOIL
Ext Btch ID	: IPA048S	% Moisture	: 17.2
Calib. Ref.	: ID8A028083	Instrument ID	: EMAXTIDB

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.19	0.119

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 09:50
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-05-02	Date Analyzed:	01/28/11 20:47
Lab Samp ID:	A219-04	Dilution Factor:	0.960
Lab File ID:	ID8A028087	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	18.8
Calib. Ref.:	ID8A028083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.18	0.118

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 10:15
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-06-01	Date Analyzed:	01/28/11 20:50
Lab Samp ID:	A219-05	Dilution Factor:	0.922
Lab File ID:	ID8A028088	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	18.4
Calib. Ref.:	ID8A028083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.25	1.13	0.113

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 10:20
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-06-02	Date Analyzed:	01/28/11 20:56
Lab Samp ID:	A219-07	Dilution Factor:	0.923
Lab File ID:	ID8A028090	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	20.5
Calib. Ref.:	ID8A028083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.598J	1.16	0.116

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 11:45
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-07-01	Date Analyzed:	01/28/11 20:59
Lab Samp ID:	A219-08	Dilution Factor:	0.929
Lab File ID:	ID8A028091	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	19.1
Calib. Ref.:	ID8A028083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.144J	1.15	0.115

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected	: 01/24/11 11:50
Project	: TAR CREEK OU4	Date Received	: 01/26/11
SDG NO.	: 11A219	Date Extracted	: 01/27/11 11:25
Sample ID	: CP093-S3-07-02	Date Analyzed	: 01/28/11 21:01
Lab Samp ID	: A219-09	Dilution Factor	: 0.951
Lab File ID	: ID8A028092	Matrix	: SOIL
Ext Btch ID	: IPA048S	% Moisture	: 18.1
Calib. Ref.	: ID8A028083	Instrument ID	: EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.16	0.116

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 12:25
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-08-02	Date Analyzed:	01/28/11 20:20
Lab Samp ID:	A219-11	Dilution Factor:	0.942
Lab File ID:	ID8A028077	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	18.1
Calib. Ref.:	IDBA028071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.807J	1.15	0.115

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/27/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	MBLK1S	Date Analyzed:	01/28/11 20:09
Lab Samp ID:	IPA048SB	Dilution Factor:	1
Lab File ID:	ID8A028073	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	NA
Calib. Ref.:	ID8A028071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A219
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	M8LK1S				
CONTROL NO.:	IPA048SB	IPA048SL	IPA048SC		
LAB FILE ID:	ID8A028073	ID8A028074	ID8A028075		
DATIME EXTRCTD:	01/27/1111:25	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	NA
DATIME ANALYZD:	01/28/1120:09	01/28/1120:12	01/28/1120:15	DATE RECEIVED:	01/27/11
PREP. BATCH:	IPA048S	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	NO	50	49.7	99	50	49.3	99	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A219
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	18.1
DILTN FACTR:	0.942	0.943	0.942		
SAMPLE ID:	CP093-S3-08-02				
CONTROL NO.:	A219-11	A219-11M	A219-11S		
LAB FILE ID:	ID8A028077	ID8A028079	ID8A028080		
DATIME EXTRCTD:	01/27/1111:25	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	01/24/11 12:25
DATIME ANALYZD:	01/28/1120:20	01/28/1120:25	01/28/1120:28	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA048S	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	.807J	57.6	59.8	103	57.5	57.9	99	4	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK DU4
BATCH NO.: 11A219
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.1
DILUTION FACTOR:	0.942	4.71		
SAMPLE ID:	CP093-S3-08-02	CP093-S3-08-02DL		
EMAX SAMP ID:	A219-11	A219-11J		
LAB FILE ID:	ID8A028077	ID8A028078		
DATE EXTRACTED:	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	01/24/11 12:25
DATE ANALYZED:	01/28/1120:20	01/28/1120:23	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.807J	0.707J	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A219
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.1
DILTN FACTR:	0.942	0.942		
SAMPLE ID:	CP093-S3-08-02			
CONTROL NO.:	A219-11	A219-11A		
LAB FILE ID:	ID8A028077	ID8A02B076		
DATIME EXTRCTD:	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	01/24/11 12:25
DATIME ANALYZD:	01/28/1120:20	01/28/1120:17	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	IDBA028071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.807J	57.5	53.9	92	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A219
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA048SB	1	NA	01/28/1120:09	01/27/1111:25	ID8A028073	ID8A028071	IPA048S	Method Blank
LCS1S	IPA048SL	1	NA	01/28/1120:12	01/27/1111:25	ID8A028074	ID8A028071	IPA048S	Lab Control Sample (LCS)
LCD1S	IPA048SC	1	NA	01/28/1120:15	01/27/1111:25	ID8A028075	ID8A028071	IPA048S	LCS Duplicate
CP093-S3-08-02AS	A219-11A	0.942	18.1	01/28/1120:17	01/27/1111:25	ID8A028076	ID8A028071	IPA048S	Analytical Spike Sample
CP093-S3-08-02	A219-11	0.942	18.1	01/28/1120:20	01/27/1111:25	ID8A028077	ID8A028071	IPA048S	Field Sample
CP093-S3-08-02DL	A219-11J	4.71	18.1	01/28/1120:23	01/27/1111:25	ID8A028078	ID8A028071	IPA048S	Diluted Sample
CP093-S3-05-01	A219-03	0.935	19.7	01/28/1120:45	01/27/1111:25	ID8A028086	ID8A028083	IPA048S	Field Sample
CP093-S3-06-01FD	A219-06	0.955	19.1	01/28/1120:53	01/27/1111:25	ID8A028089	ID8A028083	IPA048S	Field Sample
CP093-S3-08-01	A219-10	0.962	20.2	01/28/1121:04	01/27/1111:25	ID8A028093	ID8A028083	IPA048S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 09:45
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-05-01	Date Analyzed:	01/28/11 20:45
Lab Samp ID:	A219-03	Dilution Factor:	0.935
Lab File ID:	ID8A028086	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	19.7
Calib. Ref.:	ID8A028083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	5.17	1.16	0.116
Zinc	999	1.16	0.582

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 10:15
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-06-01FD	Date Analyzed:	01/28/11 20:53
Lab Samp ID:	A219-06	Dilution Factor:	0.955
Lab File ID:	ID8A028089	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	19.1
Calib. Ref.:	ID8A028083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.02J	1.18	0.118
Zinc	234	1.18	0.590

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 12:20
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	CP093-S3-08-01	Date Analyzed:	01/28/11 21:04
Lab Samp ID:	A219-10	Dilution Factor:	0.962
Lab File ID:	I08A028093	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	20.2
Calib. Ref.:	ID8A028083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.07J	1.21	0.121
Zinc	229	1.21	0.603

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/27/11
SDG NO.	: 11A219	Date Extracted:	01/27/11 11:25
Sample ID:	MBLK1S	Date Analyzed:	01/28/11 20:09
Lab Samp ID:	IPA048SB	Dilution Factor:	1
Lab File ID:	ID8A028073	Matrix :	SOIL
Ext Btch ID:	IPA048S	% Moisture :	NA
Calib. Ref.:	ID8A028071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.100
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A219
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA048SB	IPA048SL	IPA048SC		
LAB FILE ID:	ID8A028073	ID8A028074	ID8A028075		
DATIME EXTRCTD:	01/27/1111:25	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	NA
DATIME ANALYZD:	01/28/1120:09	01/28/1120:12	01/28/1120:15	DATE RECEIVED:	01/27/11
PREP. BATCH:	IPA048S	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.7	99	50	49.3	99	1	80-120	20
Zinc	ND	50	57.5	115	50	58	116	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A219
METHOD: METHOD 3050B/60108

MATRIX:	SOIL		% MOISTURE:	18.1
DILUTION FACTOR:	0.942	4.71		
SAMPLE ID:	CP093-S3-08-02	CP093-S3-08-02DL		
EMAX SAMP ID:	A219-11	A219-11J		
LAB FILE ID:	ID8A028077	ID8A028078		
DATE EXTRACTED:	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	01/24/11 12:25
DATE ANALYZED:	01/28/1120:20	01/28/1120:23	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.807J	0.707J	NA	10
Zinc	196	192	2	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A219
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.1
DILTN FACTR:	0.942	0.942		
SAMPLE ID:	CP093-S3-08-02			
CONTROL NO.:	A219-11	A219-11A		
LAB FILE ID:	ID8A028077	ID8A028076		
DATIME EXTRCTD:	01/27/1111:25	01/27/1111:25	DATE COLLECTED:	01/24/11 12:25
DATIME ANALYZD:	01/28/1120:20	01/28/1120:17	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA048S	IPA048S		
CALIB. REF:	ID8A028071	ID8A028071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.807J	57.5	53.9	92	75-125
Zinc	196	57.5	254	99	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/28/11 16:48

End Date: 1/28/11 23:37

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

IEC update for B, Cd, Pb
(ICSA1 >LOD)
CCB4 K>LOD
CCB6 Ca, K, Zn >LOD
A169-03 Fe >LDR
A187-01 IS ↓
ICSA1 K>LOD

However, method blank detected ND
Furthermore, all associated samples detected >10x blank conc. level

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8A028

Analytical Sequence: S-11A6010(V34)

Method File: 11A6010(V34)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-33-09	S30	SM1B14-02-03
S1	NA	S31	0204
S2		ICV	2701
S3		CCV	3001
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL 3.5	SM1B14-1201
S10		MRL 4.6	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-31-02		
S21	01-01		
S22	0102		
S23	0103		
S24	-0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	02-02		

Analyzed By: TH

Date: 1/31/11

SEQUENCE FILE : ID8A028

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A028001	Blank	16:48	01/28/11	1.000
ID8A028002	S20	16:51	01/28/11	1.000
ID8A028003	S21	16:54	01/28/11	1.000
ID8A028004	S22	16:57	01/28/11	1.000
ID8A028005	S23	16:59	01/28/11	1.000
ID8A028006	S24	17:02	01/28/11	1.000
ID8A028007	S25	17:05	01/28/11	1.000
ID8A028008	S26	17:08	01/28/11	1.000
ID8A028009	S27	17:11	01/28/11	1.000
ID8A028010	S28	17:14	01/28/11	1.000
ID8A028011	S29	17:17	01/28/11	1.000
ID8A028012	S30	17:20	01/28/11	1.000
ID8A028013	S31	17:23	01/28/11	1.000
ID8A028014	ICV	17:25	01/28/11	1.000
ID8A028015	IC8	17:28	01/28/11	1.000
ID8A028016	MRLA2803	17:31	01/28/11	1.000
ID8A028017	MRLA2804	17:34	01/28/11	1.000
ID8A028018	ICSA1	17:36	01/28/11	1.000
ID8A028019	ICSA81	17:39	01/28/11	1.000
ID8A028020	CCV1	17:42	01/28/11	1.000
ID8A028021	CCB1	17:45	01/28/11	1.000
ID8A028022	10I108	17:48	01/28/11	1.000
ID8A028023	10H054	17:50	01/28/11	1.000
ID8A028024	10H055	17:53	01/28/11	1.000
ID8A028025	10L107	17:56	01/28/11	1.000
ID8A028026	CCV2	17:59	01/28/11	1.000
ID8A028027	CCB2	18:01	01/28/11	1.000
ID8A028028	IPA045S8	18:04	01/28/11	1.000
ID8A028029	IPA045SL	18:07	01/28/11	1.000
ID8A028030	IPA045SC	18:09	01/28/11	1.000
ID8A028031	MDLV-01	18:12	01/28/11	1.000
ID8A028032	MDLV-02	18:15	01/28/11	1.000
ID8A028033	MDLV-03	18:18	01/28/11	1.000
ID8A028034	MRLA2805	18:21	01/28/11	1.000
ID8A028035	MRLA2806	18:23	01/28/11	1.000
ID8A028036	CCV3	18:26	01/28/11	1.000
ID8A028037	CCB3	18:29	01/28/11	1.000
ID8A028038	IPA039WQ	18:32	01/28/11	1.000
ID8A028039	IPA039WX	18:35	01/28/11	1.000
ID8A028040	IPA039WY	18:37	01/28/11	1.000
ID8A028041	A135-02A	18:40	01/28/11	1.000
ID8A028042	A135-02W	18:43	01/28/11	1.000
ID8A028043	A135-02J	18:46	01/28/11	5.000
ID8A028044	A135-03W	18:48	01/28/11	1.000
ID8A028045	A135-04W	18:51	01/28/11	1.000
ID8A028046	A135-05W	18:54	01/28/11	1.000
ID8A028047	Blank	18:57	01/28/11	1.000
ID8A028048	CCV4	19:00	01/28/11	1.000
ID8A028049	CCB4	19:03	01/28/11	1.000
ID8A028050	IPA044S8	19:06	01/28/11	1.000
ID8A028051	IPA044SL	19:09	01/28/11	1.000
ID8A028052	IPA044SC	19:11	01/28/11	1.000
ID8A028053	A169-03A	19:14	01/28/11	1.000
ID8A028054	A169-03	19:17	01/28/11	1.000

ID8A028055	A169-03J	19:20	01/28/11	5.000
ID8A028056	A169-03M	19:22	01/28/11	1.000
ID8A028057	A169-03S	19:25	01/28/11	1.000
ID8A028058	Blank	19:28	01/28/11	1.000
ID8A028059	CCV5	19:31	01/28/11	1.000
ID8A028060	CCB5	19:33	01/28/11	1.000
ID8A028061	A169-03A	19:36	01/28/11	5.000
ID8A028062	A169-03T	19:39	01/28/11	5.000
ID8A028063	A169-03J	19:41	01/28/11	25.00
ID8A028064	A169-03G	19:44	01/28/11	5.000
ID8A028065	A169-03H	19:47	01/28/11	5.000
ID8A028066	A169-01	19:49	01/28/11	1.000
ID8A028067	A169-02	19:52	01/28/11	1.000
ID8A028068	A135-06W	19:55	01/28/11	1.000
ID8A028069	A135-07W	19:58	01/28/11	1.000
ID8A028070	Blank	20:01	01/28/11	1.000
ID8A028071	CCV6	20:04	01/28/11	1.000
ID8A028072	CCB6	20:06	01/28/11	1.000
ID8A028073	IPA048SB	20:09	01/28/11	1.000
ID8A028074	IPA048SL	20:12	01/28/11	1.000
ID8A028075	IPA048SC	20:15	01/28/11	1.000
ID8A028076	A219-11A	20:17	01/28/11	1.000
ID8A028077	A219-11	20:20	01/28/11	1.000
ID8A028078	A219-11J	20:23	01/28/11	5.000
ID8A028079	A219-11M	20:25	01/28/11	1.000
ID8A028080	A219-11S	20:28	01/28/11	1.000
ID8A028081	A219-01	20:31	01/28/11	1.000
ID8A028082	Blank	20:33	01/28/11	1.000
ID8A028083	CCV7	20:36	01/28/11	1.000
ID8A028084	CCB7	20:39	01/28/11	1.000
ID8A028085	A219-02	20:42	01/28/11	1.000
ID8A028086	A219-03	20:45	01/28/11	1.000
ID8A028087	A219-04	20:47	01/28/11	1.000
ID8A028088	A219-05	20:50	01/28/11	1.000
ID8A028089	A219-06	20:53	01/28/11	1.000
ID8A028090	A219-07	20:56	01/28/11	1.000
ID8A028091	A219-08	20:59	01/28/11	1.000
ID8A028092	A219-09	21:01	01/28/11	1.000
ID8A028093	A219-10	21:04	01/28/11	1.000
ID8A028094	Blank	21:07	01/28/11	1.000
ID8A028095	CCV8	21:10	01/28/11	1.000
ID8A028096	CCB8	21:12	01/28/11	1.000
ID8A028097	A187-01	21:15	01/28/11	1.000
ID8A028098	A209-03	21:18	01/28/11	1.000
ID8A028099	A209-04	21:21	01/28/11	1.000
ID8A028100	A209-07	21:24	01/28/11	1.000
ID8A028101	A209-09	21:27	01/28/11	1.000
ID8A028102	Blank	21:30	01/28/11	1.000
ID8A028103	CCV9	21:32	01/28/11	1.000
ID8A028104	CCB9	21:35	01/28/11	1.000
ID8A028105	IPA047SB	21:38	01/28/11	1.000
ID8A028106	IPA047SL	21:41	01/28/11	1.000
ID8A028107	IPA047SC	21:43	01/28/11	1.000
ID8A028108	A200-03A	21:46	01/28/11	10.00
ID8A028109	A200-03T	21:48	01/28/11	10.00
ID8A028110	A200-03J	21:51	01/28/11	50.00
ID8A028111	A200-01T	21:54	01/28/11	10.00

ID8A028112	A200-02T	21:56	01/28/11	10.00
ID8A028113	A133-01T	21:59	01/28/11	10.00
ID8A028114	A133-02T	22:02	01/28/11	10.00
ID8A028115	CCV10	22:04	01/28/11	1.000
ID8A028116	CCB10	22:07	01/28/11	1.000
ID8A028117	IPA053SB	22:10	01/28/11	1.000
ID8A028118	IPA053SL	22:13	01/28/11	1.000
ID8A028119	IPA053SC	22:15	01/28/11	1.000
ID8A028120	A251-06A	22:18	01/28/11	1.000
ID8A028121	A251-06	22:20	01/28/11	1.000
ID8A028122	A251-06J	22:23	01/28/11	5.000
ID8A028123	A251-06M	22:26	01/28/11	1.000
ID8A028124	A251-06S	22:28	01/28/11	1.000
ID8A028125	Blank	22:31	01/28/11	1.000
ID8A028126	CCV11	22:34	01/28/11	1.000
ID8A028127	CCB11	22:36	01/28/11	1.000
ID8A028128	A251-01	22:39	01/28/11	1.000
ID8A028129	A251-02	22:42	01/28/11	1.000
ID8A028130	A251-03	22:45	01/28/11	1.000
ID8A028131	A251-04	22:47	01/28/11	1.000
ID8A028132	A251-05	22:50	01/28/11	1.000
ID8A028133	A251-07	22:53	01/28/11	1.000
ID8A028134	A195-04T	22:56	01/28/11	5.000
ID8A028135	Blank	22:59	01/28/11	1.000
ID8A028136	CCV12	23:01	01/28/11	1.000
ID8A028137	CCB12	23:04	01/28/11	1.000
ID8A028138	IPA052WB	23:07	01/28/11	1.000
ID8A028139	IPA052WL	23:10	01/28/11	1.000
ID8A028140	IPA052WC	23:12	01/28/11	1.000
ID8A028141	A220-03A	23:15	01/28/11	1.000
ID8A028142	A220-03	23:17	01/28/11	1.000
ID8A028143	A220-03J	23:20	01/28/11	5.000
ID8A028144	A220-03M	23:23	01/28/11	1.000
ID8A028145	A220-03S	23:26	01/28/11	1.000
ID8A028146	A220-02	23:28	01/28/11	1.000
ID8A028147	Blank	23:31	01/28/11	1.000
ID8A02814B	CCV13	23:34	01/28/11	1.000
ID8A028149	CCB13	23:37	01/28/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A028 DATE : 01/28/11 INST : EMAX7

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	99	105	99	101	99	100	104	100	92	99	100	96	107	96	94	98	98	99	103	102	105	99	95	99	100	97	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	96	----	----	----	91	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA81	100	105	107	108	99	99	94	96	96	94	106	93	94	115	96	92	103	99	106	107	110	111	104	85	102	99	96	107
CCV1	103	103	103	99	99	97	97	100	98	94	98	97	97	106	94	94	101	99	98	103	100	104	98	93	105	98	95	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10I108	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H054	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H055	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10L107	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	102	105	100	100	98	99	101	100	94	99	99	96	107	96	95	100	98	98	104	102	104	98	96	103	99	97	107
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	103	102	102	99	99	97	97	101	98	94	97	97	96	106	94	94	100	98	98	102	100	103	97	93	104	98	94	107
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	103	102	102	99	98	97	95	99	96	94	98	96	97	107	92	93	101	98	98	102	100	103	97	92	105	97	94	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	103	101	101	98	98	96	95	99	97	93	97	96	96	106	93	93	100	97	98	101	100	103	97	92	103	97	94	105
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	103	101	101	98	97	95	93	97	95	94	97	95	96	106	91	91	101	98	97	101	99	102	96	91	105	97	92	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	107	104	106	101	100	98	99	99	99	95	101	98	96	108	94	94	101	99	98	105	102	104	98	96	103	99	97	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	103	102	102	99	98	96	94	99	96	94	97	96	97	106	92	92	102	99	97	102	99	103	97	92	106	98	93	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	104	102	102	99	98	96	95	99	96	94	97	96	97	106	92	92	102	99	97	102	100	103	97	93	106	98	93	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A200-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	104	102	101	99	98	97	94	98	96	94	98	95	97	106	92	92	102	99	98	102	100	103	97	92	105	97	93	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	102	100	100	98	97	95	92	98	95	94	97	95	96	106	91	91	101	98	97	100	99	103	97	90	104	96	92	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	101	100	98	97	96	93	98	95	94	97	95	96	105	91	92	101	98	97	101	100	103	97	91	104	96	93	104
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	104	101	102	99	97	96	94	97	95	94	99	95	96	106	91	92	101	98	97	102	100	103	97	92	104	97	94	104
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A028 (SOIL) DATE : 01/28/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	7.80	2.46	1.34	-.640	.210	3.38	.060	-4.34	.140	.170	.280	-4.26	.500	.700	16.0	.530	.530	.010	115	.430	.130	46.2	.090	.290	-.140	.100	.180	-1.31
MRLA2803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.27	-.270	.260	-.070	-7.23	-.130	----	1.53	-.680	1.32	----	-1.58	5.58	----	.850	-1.96	-.930	106	3.35	.270	74.1	21.0	1.57	1.86	2.06	1.66	1.14
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.96	1.02	.090	-.740	.120	3.71	.010	-9.07	.010	.080	.150	-2.39	.270	.280	13.9	.290	.520	-.080	144	1.04	.000	54.4	.010	.260	.040	.330	.110	-1.69
10I108	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H054	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10H055	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10L107	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	27.6	1.95	.030	.660	.430	3.66	.390	126	.500	.260	.790	1.51	.890	.690	28.7	.940	.910	.400	94.4	-.330	.220	48.9	.200	.560	-.070	.220	.490	5.31
IPA045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA2806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	25.3	1.18	-.980	.500	.380	3.31	.360	68.2	.460	.180	.620	1.79	.510	.380	25.1	.850	.910	.300	83.0	1.14	.250	45.8	.190	.490	.330	.520	.250	2.54
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	23.5	1.76	.400	.420	.370	3.47	.290	68.0	.520	.170	.890	.080	.430	-.280	23.7	.850	1.04	.410	128	1.07	.130	85.1	.240	1.02	.070	.810	.260	2.80
IPA044SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA044SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	8.83	1.74	.480	-.450	.160	2.91	.070	55.5	.140	.210	.270	-.850	-.010	.620	20.7	.480	.440	-.110	84.6	1.05	.130	25.4	.050	.770	.020	.450	.070	1.39
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	49.2	1.60	.680	1.69	.790	3.23	.790	973	1.000	.540	1.43	13.5	1.54	.330	36.8	1.89	1.16	1.20	149	.720	.440	83.8	.600	1.07	.370	.560	.690	39.3
IPA048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	28.4	1.76	.430	.430	.400	2.53	.350	83.3	.500	.240	.780	2.07	.560	.600	29.3	.830	.960	.410	98.2	1.38	.190	46.3	.260	.580	.370	.470	.430	3.54
A219-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	21.8	1.96	-.750	.400	.330	2.38	.330	69.5	.360	.270	.830	1.52	.880	.560	19.0	.940	.940	.240	87.5	1.47	.160	31.9	.240	.400	.040	-.080	.310	2.78
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A209-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	23.6	1.11	-.250	.450	.370	3.00	.320	63.8	.470	.280	.840	5.82	.790	.470	27.5	.820	1.02	.370	91.2	.900	.160	32.5	.210	.750	-.170	.390	.190	2.58
IPA047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A200-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A133-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	22.1	.650	.470	.510	.360	3.36	.350	83.1	.480	.160	.720	2.17	.940	.430	26.0	.890	.950	.330	92.0	.790	.120	35.2	.270	.620	.530	.310	.300	3.70
IPA053SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA053SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	6.43	1.69	.280	-.530	.140	3.22	.040	52.7	-.050	.180	.390	-.680	.150	.130	17.7	.340	.480	.030	77.1	.880	.170	28.1	.120	.610	-.030	.310	.110	1.42
A251-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A195-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	6.34	1.61	-.360	-.530	.130	3.23	.030	52.3	.100	.070	.370	-3.90	.330	.020	13.2	.380	.440	.000	59.1	.850	.090	16.1	.100	.030	.140	.200	.080	1.49
IPA052WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA052WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A220-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	6.50	1.65	-.140	-.550	.130	3.32	.060	52.6	.110	.100	.320	-4.44	.180	-.040	17.3	.290	.570	-.010	101	-.710	.150	35.8	.100	-.220	.370	.280	.130	1.48

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
DIGESTOR D

Book #: EIP-098
Batch: IPA048S
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

1/27/11 Start	Temp	1/27/11 End	Temp
1125	90 °c	1425	90 °c

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-02-11	0.5
LCS-2	12	0.5
LCS-3	13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM5B-02-136	10
Digestate Location	ICP	
Extract Location		

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101983555

Prepared By: LK/MJM
Standard Added By: LK/MJM Witnessed By: MJM
Extract Rcvd By: TH Checked By: TH

7035

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA048S01	IPA048SB	1	g	1/27/11 10:15	100	1	100	1	
11IPA048S02	IPA048SL	1	g	1/27/11 10:15	100	1	100	1	
11IPA048S03	IPA048SC	1	g	1/27/11 10:15	100	1	100	1	
11IPA048S04	A209-03	1.087	g	1/27/11 10:16	100	1	100	0.92	DRIED AND SIEVED
11IPA048S05	A209-04	1.081	g	1/27/11 10:16	100	1	100	0.925	DRIED AND SIEVED
11IPA048S06	A209-07	1.037	g	1/27/11 10:18	100	1	100	0.964	DRIED AND SIEVED
11IPA048S07	A209-09	1.015	g	1/27/11 10:19	100	1	100	0.985	DRIED AND SIEVED
11IPA048S08	A219-01	1.073	g	1/27/11 10:22	100	1	100	0.932	✓
11IPA048S09	A219-02	1.015	g	1/27/11 10:23	100	1	100	0.985	✓
11IPA048S10	A219-03	1.069	g	1/27/11 10:24	100	1	100	0.935	✓
11IPA048S11	A219-04	1.042	g	1/27/11 10:26	100	1	100	0.96	✓
11IPA048S12	A219-05	1.085	g	1/27/11 10:29	100	1	100	0.922	✓
11IPA048S13	A219-06	1.047	g	1/27/11 10:29	100	1	100	0.955	✓
11IPA048S14	A219-07	1.083	g	1/27/11 10:31	100	1	100	0.923	✓
11IPA048S15	A219-08	1.076	g	1/27/11 10:32	100	1	100	0.929	✓
11IPA048S16	A219-09	1.052	g	1/27/11 10:34	100	1	100	0.951	✓
11IPA048S17	A219-10	1.04	g	1/27/11 10:36	100	1	100	0.962	✓
11IPA048S18	A219-11	1.062	g	1/27/11 10:36	100	1	100	0.942	✓
11IPA048S19	A219-11M	1.06	g	1/27/11 10:42	100	1	100	0.943	✓
11IPA048S20	A219-11S	1.062	g	1/27/11 10:43	100	1	100	0.942	✓
11IPA048S21	A187-01	1.08	g	1/27/11 10:44	100	1	100	0.926	

LK 1/27/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/27/11 11:25 Prepared By: LK/MJM

☑ Digestion Ended @ 1/27/11 13:25 Checked By: TH

Comments: Date 1/27/2011

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11A219

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of three (3) soil samples were received on 01/26/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPA049SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries were within project QC limits except for one result qualified with [*] in A219-03 M/S summary form, most likely due to matrix interference. Check QC summary form for details.
Serial dilution was analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Samples were oven dried and passed through sieve #60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11A219
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPA049SB	1	NA	01/31/1117:12	01/28/1115:30	ID8A030069	ID8A030067	IPA049S	Method Blank
LCS1S	IPA049SL	1	NA	01/31/1117:15	01/28/1115:30	ID8A030070	ID8A030067	IPA049S	Lab Control Sample (LCS)
LCD1S	IPA049SC	1	NA	01/31/1117:18	01/28/1115:30	ID8A030071	ID8A030067	IPA049S	LCS Duplicate
CP093-S3-05-01	A219-03	0.943	NA	01/31/1117:23	01/28/1115:30	ID8A030073	ID8A030067	IPA049S	Field Sample
CP093-S3-05-01DL	A219-03J	4.71	NA	01/31/1117:26	01/28/1115:30	ID8A030074	ID8A030067	IPA049S	Diluted Sample
CP093-S3-05-01MS	A219-03M	0.940	NA	D1/31/1117:28	01/28/1115:30	ID8A030075	ID8A030067	IPA049S	Matrix Spike Sample (MS)
CP093-S3-05-01MSD	A219-03S	0.946	NA	01/31/1117:31	01/28/1115:30	ID8A030076	ID8A030067	IPA049S	MS Duplicate (MSD)
CP093-S3-06-01FD	A219-06	0.953	NA	01/31/1117:34	01/28/1115:30	ID8A030077	ID8A030067	IPA049S	Field Sample
CP093-S3-08-01	A219-10	0.949	NA	01/31/1118:02	01/28/1115:30	ID8A030087	ID8A030079	IPA049S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 09:45
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/28/11 15:30
Sample ID:	CP093-S3-05-01	Date Analyzed:	01/31/11 17:23
Lab Samp ID:	A219-03	Dilution Factor:	0.943
Lab File ID:	ID8A030073	Matrix :	SOIL
Ext Btch ID:	IPA049S	% Moisture :	NA
Calib. Ref.:	ID8A030067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	24.2	0.943	0.189

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 10:15
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/28/11 15:30
Sample ID:	CP093-S3-06-01FD	Date Analyzed:	01/31/11 17:34
Lab Samp ID:	A219-06	Dilution Factor:	0.953
Lab File ID:	ID8A030077	Matrix :	SOIL
Ext Btch ID:	IPA049S	% Moisture :	NA
Calib. Ref.:	ID8A030067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	30.1	0.953	0.191

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	01/24/11 12:20
Project	: TAR CREEK OU4	Date Received:	01/26/11
SDG NO.	: 11A219	Date Extracted:	01/28/11 15:30
Sample ID:	CP093-S3-08-01	Date Analyzed:	01/31/11 18:02
Lab Samp ID:	A219-10	Dilution Factor:	0.949
Lab File ID:	ID8A030087	Matrix :	SOIL
Ext Btch ID:	IPA049S	% Moisture :	NA
Calib. Ref.:	ID8A030079	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	23.7	0.949	0.190

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	01/28/11
SDG NO.	: 11A219	Date Extracted:	01/28/11 15:30
Sample ID:	MBLK1S	Date Analyzed:	01/31/11 17:12
Lab Samp ID:	IPA049SB	Dilution Factor:	1
Lab File ID:	ID8A030069	Matrix :	SOIL
Ext Btch ID:	IPA049S	% Moisture :	NA
Calib. Ref.:	ID8A030067	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11A219
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPA049SB	IPA049SL	IPA049SC		
LAB FILE ID:	ID8A030069	ID8A030070	ID8A030071		
DATIME EXTRCTD:	01/28/1115:30	01/28/1115:30	01/28/1115:30	DATE COLLECTED:	NA
DATIME ANALYZD:	01/31/1117:12	01/31/1117:15	01/31/1117:18	DATE RECEIVED:	01/28/11
PREP. BATCH:	IPA049S	IPA049S	IPA049S		
CALIB. REF:	ID8A030067	ID8A030067	ID8A030067		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	47.9	96	50	49.7	99	4	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11A219
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.943	4.71		
SAMPLE ID:	CP093-S3-05-01	CP093-S3-05-01DL		
EMAX SAMP ID:	A219-03	A219-03J		
LAB FILE ID:	ID8A030073	ID8A030074		
DATE EXTRACTED:	01/28/1115:30	01/28/1115:30	DATE COLLECTED:	01/24/11 09:45
DATE ANALYZED:	01/31/1117:23	01/31/1117:26	DATE RECEIVED:	01/26/11
PREP. BATCH:	IPA049S	IPA049S		
CALIB. REF:	ID8A030067	ID8A030067		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	24.2	24.3	1	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/31/11 13:50
End Date: 2/1/11 02:15

Book #: AD8-018
Instrument No.: D8
Analytical Batch: 1D8A030
Analytical Sequence: S-11A6010(V35)
Method File: 11A6010(V35)
Database: EmaX13

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

	STANDARDS ID		STANDARDS ID
S0	SMIB14-3304	S30	SMIB14-02-03
S1	NA	S31	02-04
S2		ICV	27-01
S3		CCV	30-01
S4		ICSA	20-02
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL3	SMIB14-1201
S10		MRL4	1901
S11			
S12			
S16			
S17			
S18			
S20	SMIB14-3102		
S21	0101		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Comments:

AS45-02 T @ 5X Fe > LDR
01 T
03 T
04 T
05 T
AS460 1T
02 T Cu, Zn > LDR
AS460 Sb, Ba Cr, Zn > LDR
CCB9 Pb 73X IDL. However, all associated samples
A187-01 IS ↓ due to matrix interference
A187-01 STLC IS ↓ @ 1X, 5X
CCB11 Zn > MDL
AS45-04 T @ 10X, Te > LDR
A199-05 TOT Cr > LDR
A211-07 TOT Cr > LDR
11A169 STLC - T1 including W7A10SSB
A169-03A STLC TAs, Se, Ag recovery
A169-03A STLC 5X TAs, Se recovery
CCV22, CCV23 failed (misprep?)
AS19-01 : dark color ∴ diluted before analysis

Analyzed By: TH
Date: 2/1/11

SEQUENCE FILE : ID8A030

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A030001	Blank	13:50	01/31/11	1.000
ID8A030002	S20	13:53	01/31/11	1.000
ID8A030003	S21	13:56	01/31/11	1.000
ID8A030004	S22	13:58	01/31/11	1.000
ID8A030005	S23	14:01	01/31/11	1.000
ID8A030006	S24	14:04	01/31/11	1.000
ID8A030007	S25	14:07	01/31/11	1.000
ID8A030008	S26	14:10	01/31/11	1.000
ID8A030009	S27	14:13	01/31/11	1.000
ID8A030010	S28	14:16	01/31/11	1.000
ID8A030011	S29	14:19	01/31/11	1.000
ID8A030012	S30	14:22	01/31/11	1.000
ID8A030013	S31	14:25	01/31/11	1.000
ID8A030014	ICV	14:27	01/31/11	1.000
ID8A030015	ICB	14:30	01/31/11	1.000
ID8A030016	MRLA3103	14:33	01/31/11	1.000
ID8A030017	MRLA3104	14:36	01/31/11	1.000
ID8A030018	ICSA1	14:38	01/31/11	1.000
ID8A030019	ICSAB1	14:42	01/31/11	1.000
ID8A030020	CCV1	14:45	01/31/11	1.000
ID8A030021	CCB1	14:47	01/31/11	1.000
ID8A030022	IPA039WQ	14:59	01/31/11	1.000
ID8A030023	IPA039WX	15:02	01/31/11	1.000
ID8A030024	IPA039WY	15:05	01/31/11	1.000
ID8A030025	A135-02A	15:07	01/31/11	1.000
ID8A030026	A135-02W	15:10	01/31/11	1.000
ID8A030027	A135-02J	15:13	01/31/11	5.000
ID8A030028	A135-03W	15:16	01/31/11	1.000
ID8A030029	A135-04W	15:19	01/31/11	1.000
ID8A030030	A135-05W	15:22	01/31/11	1.000
ID8A030031	Blank	15:25	01/31/11	1.000
ID8A030032	CCV2	15:28	01/31/11	1.000
ID8A030033	CCB2	15:31	01/31/11	1.000
ID8A030034	A169-03A	15:33	01/31/11	5.000
ID8A030035	A169-03I	15:36	01/31/11	5.000
ID8A030036	A169-03J	15:39	01/31/11	25.00
ID8A030037	A169-03G	15:41	01/31/11	5.000
ID8A030038	A169-03H	15:44	01/31/11	5.000
ID8A030039	A169-01W	15:47	01/31/11	1.000
ID8A030040	A169-02W	15:50	01/31/11	1.000
ID8A030041	A135-06W	15:52	01/31/11	1.000
ID8A030042	A135-07W	15:55	01/31/11	1.000
ID8A030043	Blank	15:58	01/31/11	1.000
ID8A030044	CCV3	16:01	01/31/11	1.000
ID8A030045	CCB3	16:04	01/31/11	1.000
ID8A030046	IPA050SB	16:07	01/31/11	1.000
ID8A030047	IPA050SL	16:10	01/31/11	1.000
ID8A030048	IPA050SC	16:13	01/31/11	1.000
ID8A030049	A545-02A	16:15	01/31/11	5.000
ID8A030050	A545-02T	16:18	01/31/11	5.000
ID8A030051	A545-02J	16:21	01/31/11	25.00
ID8A030052	A545-02M	16:23	01/31/11	5.000
ID8A030053	A545-02S	16:26	01/31/11	5.000
ID8A030054	A545-01T	16:29	01/31/11	5.000

ID8A030055	Blank	16:32	01/31/11	1.000
ID8A030056	CCV4	16:34	01/31/11	1.000
ID8A030057	CCB4	16:37	01/31/11	1.000
ID8A030058	A545-03T	16:40	01/31/11	5.000
ID8A030059	A545-04T	16:43	01/31/11	5.000
ID8A030060	A545-05T	16:45	01/31/11	5.000
ID8A030061	A546-01T	16:48	01/31/11	5.000
ID8A030062	A546-02T	16:51	01/31/11	5.000
ID8A030063	A546-03T	16:54	01/31/11	5.000
ID8A030064	A546-04	16:57	01/31/11	1.000
ID8A030065	A546-05	17:00	01/31/11	1.000
ID8A030066	Blank	17:04	01/31/11	1.000
ID8A030067	CCV5	17:07	01/31/11	1.000
ID8A030068	CCB5	17:09	01/31/11	1.000
ID8A030069	IPA049SB	17:12	01/31/11	1.000
ID8A030070	IPA049SL	17:15	01/31/11	1.000
ID8A030071	IPA049SC	17:18	01/31/11	1.000
ID8A030072	A219-03A	17:20	01/31/11	1.000
ID8A030073	A219-03	17:23	01/31/11	1.000
ID8A030074	A219-03J	17:26	01/31/11	5.000
ID8A030075	A219-03M	17:28	01/31/11	1.000
ID8A030076	A219-03S	17:31	01/31/11	1.000
ID8A030077	A219-06	17:34	01/31/11	1.000
ID8A030078	Blank	17:36	01/31/11	1.000
ID8A030079	CCV6	17:39	01/31/11	1.000
ID8A030080	CCB6	17:42	01/31/11	1.000
ID8A030081	IPA048SQ	17:45	01/31/11	1.000
ID8A030082	IPA048SX	17:48	01/31/11	1.000
ID8A030083	IPA048SY	17:50	01/31/11	1.000
ID8A030084	A187-01A	17:53	01/31/11	1.000
ID8A030085	A187-01W	17:56	01/31/11	1.000
ID8A030086	A187-01J	17:59	01/31/11	5.000
ID8A030087	A219-10	18:02	01/31/11	1.000
ID8A030088	A519-03	18:05	01/31/11	1.000
ID8A030089	A961-01	18:07	01/31/11	1.000
ID8A030090	Blank	18:11	01/31/11	1.000
ID8A030091	CCV7	18:13	01/31/11	1.000
ID8A030092	CCB7	18:16	01/31/11	1.000
ID8A030093	A537-28	18:19	01/31/11	1.000
ID8A030094	A537-29	18:22	01/31/11	1.000
ID8A030095	A537-30	18:25	01/31/11	1.000
ID8A030096	A537-31	18:28	01/31/11	1.000
ID8A030097	A537-32	18:31	01/31/11	1.000
ID8A030098	A537-33	18:34	01/31/11	1.000
ID8A030099	A537-34	18:37	01/31/11	1.000
ID8A030100	A537-35	18:40	01/31/11	1.000
ID8A030101	A537-36	18:43	01/31/11	1.000
ID8A030102	Blank	18:46	01/31/11	1.000
ID8A030103	CCV8	18:48	01/31/11	1.000
ID8A030104	CCB8	18:51	01/31/11	1.000
ID8A030105	A537-37	18:54	01/31/11	1.000
ID8A030106	A522-07	18:57	01/31/11	1.000
ID8A030107	A522-08	19:00	01/31/11	1.000
ID8A030108	A538-10	19:02	01/31/11	1.000
ID8A030109	A538-11	19:05	01/31/11	1.000
ID8A030110	A538-12	19:08	01/31/11	1.000
ID8A030111	A538-13	19:12	01/31/11	1.000

ID8A030112	A538-14	19:15	01/31/11	1.000
ID8A030113	Blank	19:18	01/31/11	1.000
ID8A030114	CCV9	19:20	01/31/11	1.000
ID8A030115	CCB9	19:24	01/31/11	1.000
ID8A030116	A561-01	19:27	01/31/11	1.000
ID8A030117	A561-02	19:30	01/31/11	1.000
ID8A030118	A561-03	19:33	01/31/11	1.000
ID8A030119	A561-04	19:35	01/31/11	1.000
ID8A030120	Blank	19:38	01/31/11	1.000
ID8A030121	Blank	19:41	01/31/11	1.000
ID8A030122	Blank	19:44	01/31/11	1.000
ID8A030123	CCV10	19:47	01/31/11	1.000
ID8A030124	CCB10	19:49	01/31/11	1.000
ID8A030125	A545-02A	19:52	01/31/11	10.00
ID8A030126	A545-02I	19:55	01/31/11	10.00
ID8A030127	A545-02J	19:58	01/31/11	50.00
ID8A030128	A545-02G	20:01	01/31/11	10.00
ID8A030129	A545-02H	20:03	01/31/11	10.00
ID8A030130	A545-01I	20:06	01/31/11	10.00
ID8A030131	A545-03I	20:09	01/31/11	10.00
ID8A030132	A545-04I	20:12	01/31/11	10.00
ID8A030133	A545-05I	20:15	01/31/11	10.00
ID8A030134	Blank	20:17	01/31/11	1.000
ID8A030135	CCV11	20:20	01/31/11	1.000
ID8A030136	CCB11	20:23	01/31/11	1.000
ID8A030137	A546-01I	20:26	01/31/11	20.00
ID8A030138	A546-02I	20:29	01/31/11	20.00
ID8A030139	A546-03I	20:32	01/31/11	5.000
ID8A030140	A546-04I	20:34	01/31/11	20.00
ID8A030141	A546-05W	20:37	01/31/11	1.000
ID8A030142	Blank	20:40	01/31/11	1.000
ID8A030143	CCV12	20:43	01/31/11	1.000
ID8A030144	CCB12	20:46	01/31/11	1.000
ID8A030145	IPA057SB	20:48	01/31/11	1.000
ID8A030146	IPA057SL	20:51	01/31/11	1.000
ID8A030147	IPA057SC	20:54	01/31/11	1.000
ID8A030148	A251-04A	20:56	01/31/11	1.000
ID8A030149	A251-04R	20:59	01/31/11	1.000
ID8A030150	A251-04J	21:02	01/31/11	5.000
ID8A030151	A251-04M	21:05	01/31/11	1.000
ID8A030152	A251-04S	21:07	01/31/11	1.000
ID8A030153	A251-06R	21:10	01/31/11	1.000
ID8A030154	Blank	21:12	01/31/11	1.000
ID8A030155	CCV13	21:15	01/31/11	1.000
ID8A030156	CCB13	21:18	01/31/11	1.000
ID8A030157	IPA051WB	21:21	01/31/11	1.000
ID8A030158	IPA051WL	21:24	01/31/11	1.000
ID8A030159	IPA051WC	21:26	01/31/11	1.000
ID8A030160	A199-03A	21:29	01/31/11	1.000
ID8A030161	A199-03	21:31	01/31/11	1.000
ID8A030162	A199-03J	21:34	01/31/11	5.000
ID8A030163	A199-03M	21:37	01/31/11	1.000
ID8A030164	A199-03S	21:40	01/31/11	1.000
ID8A030165	A199-05	21:43	01/31/11	1.000
ID8A030166	Blank	21:46	01/31/11	1.000
ID8A030167	CCV14	21:48	01/31/11	1.000
ID8A030168	CCB14	21:51	01/31/11	1.000

ID8A030169	A199-03	21:54	01/31/11	1.000
ID8A030170	A199-03M	21:57	01/31/11	1.000
ID8A030171	A199-03S	22:00	01/31/11	1.000
ID8A030172	A199-05	22:02	01/31/11	1.000
ID8A030173	A203-01	22:05	01/31/11	1.000
ID8A030174	A203-01	22:08	01/31/11	1.000
ID8A030175	A198-01	22:11	01/31/11	1.000
ID8A030176	A211-06	22:14	01/31/11	1.000
ID8A030177	A211-07	22:17	01/31/11	1.000
ID8A030178	Blank	22:20	01/31/11	1.000
ID8A030179	CCV15	22:23	01/31/11	1.000
ID8A030180	CCB15	22:26	01/31/11	1.000
ID8A030181	A211-06	22:29	01/31/11	1.000
ID8A030182	A211-07	22:31	01/31/11	1.000
ID8A030183	A519-01T	22:35	01/31/11	5.000
ID8A030184	A181-03	22:38	01/31/11	1.000
ID8A030185	A181-03M	22:40	01/31/11	1.000
ID8A030186	A181-03S	22:43	01/31/11	1.000
ID8A030187	A181-04	22:46	01/31/11	1.000
ID8A030188	A181-03	22:48	01/31/11	1.000
ID8A030189	A181-03M	22:51	01/31/11	1.000
ID8A030190	Blank	22:54	01/31/11	1.000
ID8A030191	CCV16	22:57	01/31/11	1.000
ID8A030192	CCB16	23:00	01/31/11	1.000
ID8A030193	A181-03S	23:02	01/31/11	1.000
ID8A030194	A181-04	23:05	01/31/11	1.000
ID8A030195	Blank	23:08	01/31/11	1.000
ID8A030196	ICSA2	23:11	01/31/11	1.000
ID8A030197	ICSAB2	23:14	01/31/11	1.000
ID8A030198	CCV17	23:17	01/31/11	1.000
ID8A030199	CCB17	23:19	01/31/11	1.000
ID8A030200	IPA056WB	23:22	01/31/11	1.000
ID8A030201	IPA056WL	23:25	01/31/11	1.000
ID8A030202	IPA056WC	23:28	01/31/11	1.000
ID8A030203	Blank	23:30	01/31/11	1.000
ID8A030204	CCV18	23:33	01/31/11	1.000
ID8A030205	CCB18	23:36	01/31/11	1.000
ID8A030206	WTA005S8	23:38	01/31/11	1.000
ID8A030207	A169-03A	23:41	01/31/11	1.000
ID8A030208	A169-03	23:44	01/31/11	1.000
ID8A030209	A169-03J	23:47	01/31/11	5.000
ID8A030210	A169-03M	23:50	01/31/11	1.000
ID8A030211	A169-03S	23:53	01/31/11	1.000
ID8A030212	A169-01	23:55	01/31/11	1.000
ID8A030213	A169-02	23:58	01/31/11	1.000
ID8A030214	A187-01	00:01	02/01/11	1.000
ID8A030215	Blank	00:04	02/01/11	1.000
ID8A030216	CCV19	00:07	02/01/11	1.000
ID8A030217	CCB19	00:10	02/01/11	1.000
ID8A030218	WTA005SQ	00:13	02/01/11	5.000
ID8A030219	A169-03A	00:16	02/01/11	5.000
ID8A030220	A169-03T	00:18	02/01/11	5.000
ID8A030221	A169-03J	00:21	02/01/11	25.00
ID8A030222	A169-03G	00:24	02/01/11	5.000
ID8A030223	A169-03H	00:27	02/01/11	5.000
ID8A030224	A167-01T	00:29	02/01/11	5.000
ID8A030225	A167-02T	00:32	02/01/11	5.000

ID8A030226	A187-01T	00:35	02/01/11	5.000
ID8A030227	Blank	00:38	02/01/11	1.000
ID8A030228	CCV20	00:41	02/01/11	1.000
ID8A030229	CCB20	00:44	02/01/11	1.000
ID8A030230	TXA012SB	00:46	02/01/11	1.000
ID8A030231	A519-06A	00:49	02/01/11	1.000
ID8A030232	A519-06	00:52	02/01/11	1.000
ID8A030233	A519-06J	00:55	02/01/11	5.000
ID8A030234	A519-06M	00:58	02/01/11	1.000
ID8A030235	A519-06S	01:01	02/01/11	1.000
ID8A030236	A519-02	01:03	02/01/11	1.000
ID8A030237	A519-07	01:06	02/01/11	1.000
ID8A030238	A564-01	01:09	02/01/11	1.000
ID8A030239	Blank	01:12	02/01/11	1.000
ID8A030240	CCV21	01:15	02/01/11	1.000
ID8A030241	CCB21	01:17	02/01/11	1.000
ID8A030242	A169-01	01:20	02/01/11	1.000
ID8A030243	A169-02	01:23	02/01/11	1.000
ID8A030244	A169-03	01:26	02/01/11	1.000
ID8A030245	A519-06A	01:29	02/01/11	5.000
ID8A030246	A519-06T	01:32	02/01/11	5.000
ID8A030247	A519-06J	01:34	02/01/11	25.00
ID8A030248	A519-06G	01:37	02/01/11	5.000
ID8A030249	A519-06H	01:40	02/01/11	5.000
ID8A030250	Blank	01:43	02/01/11	1.000
ID8A030251	CCV22	01:45	02/01/11	1.000
ID8A030252	CCB22	01:48	02/01/11	1.000
ID8A030253	TXA013WB	01:51	02/01/11	1.000
ID8A030254	A519-05A	01:54	02/01/11	1.000
ID8A030255	A519-05	01:56	02/01/11	1.000
ID8A030256	A519-05J	01:59	02/01/11	5.000
ID8A030257	A519-05M	02:02	02/01/11	1.000
ID8A030258	A519-05S	02:04	02/01/11	1.000
ID8A030259	A519-04	02:07	02/01/11	1.000
ID8A030260	Blank	02:10	02/01/11	1.000
ID8A030261	CCV23	02:13	02/01/11	1.000
ID8A030262	CCB23	02:15	02/01/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8A030 DATE : 01/31/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	104	98	104	99	101	98	100	103	99	91	100	100	94	105	96	94	97	97	97	101	102	104	98	94	98	99	97	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA3103	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA3104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	102	----	----	----	----	----	----	98	----	----	----	95	----	----	98	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	102	107	112	110	102	101	101	96	100	93	113	95	93	116	98	96	102	98	107	110	115	112	106	88	98	100	102	107
CCV1	104	103	107	101	101	99	103	99	101	93	104	99	94	107	95	96	98	98	97	107	104	104	99	97	99	98	101	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	102	101	102	99	98	97	96	97	96	93	100	96	95	105	91	93	100	98	96	102	100	102	97	92	102	96	95	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	102	101	102	99	98	96	95	97	95	93	100	96	95	106	91	93	100	98	97	102	100	103	97	91	103	96	95	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA050SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA050SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA050SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	102	101	102	99	98	96	96	97	96	93	101	96	95	106	91	93	100	98	96	102	100	102	97	92	102	97	95	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	103	101	102	99	98	96	95	97	95	93	100	97	95	104	92	93	100	98	95	101	99	102	96	91	103	96	94	105
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA049SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA049SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA049SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	102	101	102	99	98	97	96	97	96	93	100	96	95	105	91	93	100	98	95	102	101	102	96	92	103	96	96	105
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A961-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	104	102	103	99	99	96	97	97	96	93	101	98	95	104	92	93	100	98	95	103	101	101	96	93	103	97	96	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-32	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-33	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-34	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-35	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-36	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	102	103	100	100	98	97	98	98	94	102	98	96	105	93	94	101	99	96	104	102	103	98	93	104	98	97	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-37	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A522-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A522-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A538-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	106	103	101	100	97	96	97	97	94	104	97	96	106	92	93	102	99	96	104	102	103	98	93	103	98	97	105
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A561-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A561-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A561-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A561-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	105	103	104	101	100	99	97	97	97	94	104	97	96	106	92	94	101	99	97	104	103	103	98	94	102	98	98	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-03I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-04I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-05I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	105	102	105	101	100	99	99	97	99	94	104	97	95	106	93	94	100	99	97	105	104	103	98	94	101	98	99	105
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-02I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-03I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-04I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	107	103	106	102	101	99	100	97	99	94	105	98	95	106	93	95	100	99	97	105	104	103	99	95	101	99	100	105
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA057SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA057SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA057SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	107	103	106	101	101	99	101	98	100	94	105	99	95	106	94	96	100	99	97	106	104	103	99	97	101	99	101	105
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA051WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA051WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA051WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	108	104	107	102	102	100	102	98	101	94	106	99	95	107	94	96	100	99	98	107	106	104	100	97	101	99	102	105
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A199-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A198-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A211-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A211-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	108	102	107	102	103	101	103	99	102	94	106	100	95	107	96	97	99	98	99	106	106	105	100	97	100	99	103	106
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A211-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A211-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	108	104	108	102	103	101	104	99	102	94	108	99	95	107	95	97	100	99	98	108	107	104	100	98	99	99	104	105
CCB16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	102	----	----	----	----	----	----	96	----	----	----	93	----	----	98	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	102	105	110	108	101	100	100	94	99	92	114	92	91	112	97	94	100	97	104	109	115	108	105	87	95	99	102	104
CCV17	108	103	108	102	103	102	104	99	103	94	107	99	95	107	95	98	99	98	99	108	108	104	101	98	99	99	104	105
CCB17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA056WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA056WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA056WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	108	103	108	103	103	101	104	98	103	94	108	99	94	107	95	98	99	98	99	108	107	104	101	98	98	99	104	105
CCB18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTA005SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV19	108	103	109	102	103	101	106	100	105	93	107	100	94	106	96	98	98	98	98	108	107	104	101	99	98	99	105	106
CCB19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTA005SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A167-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A167-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A187-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV20	109	103	110	103	103	102	107	98	105	94	108	100	94	108	96	98	98	98	98	109	109	105	101	100	97	99	107	106
CCB20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXA012SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A564-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV21	109	103	109	103	103	102	106	98	105	94	109	99	94	108	95	98	98	98	99	109	109	105	102	99	97	99	107	105
CCB21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV22	12*	11*	12*	11*	12*	11*	12*	11*	12*	10*	12*	11*	11*	11*	11*	11*	11*	11*	11*	12*	12*	12*	11*	12*	10*	11*	12*	11*
CCB22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXA013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV23	12*	11*	12*	11*	11*	11*	12*	11*	12*	10*	12*	11*	11*	11*	11*	11*	11*	11*	11*	12*	12*	12*	11*	12*	10*	11*	12*	11*
CCB23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A030 (SOIL) DATE : 01/31/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	13.9	1.62	.990	-1.50	.150	4.28	-.110	6.10	.140	.160	.210	-.570	-.190	-.050	7.69	.380	.530	-.050	86.3	.030	.010	29.8	.060	.150	-.350	.320	.060	-.170
MRLA3103	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA3104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	9.03	.010	-.500	-.010	-8.97	1.34	----	1.76	-.840	1.45	----	.410	5.81	----	.800	-1.71	-.950	94.8	.730	.140	64.6	21.2	.610	2.65	1.96	1.52	1.92
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	25.3	1.76	.180	-.500	.350	4.15	.210	57.9	.370	.290	.440	5.52	.440	.150	13.7	.690	.770	.270	134	.810	.070	56.6	.210	.170	.010	.180	.310	1.44
IPA039WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA039WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	12.7	1.85	.920	-.660	.270	3.80	.100	42.8	.340	.190	.410	3.46	-.260	.600	10.4	.450	.780	.260	107	.360	-.120	76.1	.160	-.040	.000	.220	.300	1.33
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8LANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	12.0	1.61	.400	-.630	.240	3.75	.110	41.2	.260	.060	.450	2.99	-.240	.350	8.19	.420	.600	.010	107	.160	.020	68.4	.200	.890	.260	.080	.170	1.000
IPA050SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA050SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA050SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	12.9	1.48	.820	-.660	.270	4.14	.100	42.2	.250	.180	.540	5.60	.120	.000	7.10	.470	.780	.310	72.5	-.510	-.030	27.0	.140	.650	.040	.150	.200	1.08
A545-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	14.8	3.63	.570	-.660	.250	3.76	.090	40.7	.330	.150	.740	3.30	.310	.410	7.65	.490	.670	.190	61.1	.090	.010	23.4	.190	.260	-.080	.120	.290	1.31
IPA049SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA049SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA049SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	13.8	2.53	.150	-.710	.280	3.73	.070	41.7	.340	.100	.490	4.71	.540	.130	3.83	.580	.710	.310	71.1	.520	-.030	28.1	.150	.170	.400	.100	.330	1.29
IPA048SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA048SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A219-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A961-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	17.4	1.63	.270	-.700	.300	3.63	.060	43.9	.330	.100	.600	4.45	.260	-.010	11.8	.470	.830	.220	74.4	1.15	.080	26.7	.140	.500	.080	.540	.210	1.29
A537-28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-32	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-33	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-34	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-35	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A537-36	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	17.7	1.44	.570	-.310	.340	3.24	.150	147	.390	.160	.600	5.06	.720	.290	10.1	.660	.820	.350	73.8	-.170	.000	27.9	.160	.140	.040	.300	.250	7.45
A537-37	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A522-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A522-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A538-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A538-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	14.4	26.9	1.49	-.570	.150	2.40	.000	72.4	.290	.120	.660	1.59	3.26	.420	4.25	.310	.580	.110	56.6	-.530	-.110	13.1	.110	.380	.170	.190	.180	11.8
A561-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A561-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A561-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A561-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	16.4	5.63	.760	-.550	.250	3.61	.070	78.1	.270	.110	.540	.230	1.79	-.090	7.88	.520	.650	.180	81.0	-.040	-.040	25.0	.230	.050	.040	.280	.260	6.21
A545-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-02H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-03I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-04I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A545-05I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	22.5	3.44	.490	-.610	.320	3.85	.070	224	.300	.130	.780	6.03	1.26	.320	7.53	.680	.600	.230	65.7	-.470	.130	22.1	.220	-.010	.070	.080	.270	10.3
A546-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-02I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-03I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-04I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A546-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	14.1	2.02	.200	-1.46	.190	3.61	-.060	21.7	.110	.050	.490	-.790	.590	.680	5.34	.330	.530	-.050	70.1	.550	-.040	13.6	.060	-.030	.050	.320	.080	1.48
IPA057SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA057SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA057SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A251-06R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	14.8	2.94	1.57	-1.42	.220	3.64	-.080	22.8	.180	.140	.570	-.210	1.03	.090	9.51	.240	.580	-.150	67.9	.430	.030	23.0	.090	-.390	.090	.230	.090	1.61
IPA051WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA051WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA051WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	18.3	2.40	.500	-.570	.260	4.33	.050	75.8	.420	.120	.490	1.69	.590	.230	13.7	.540	.990	.110	146	.910	.010	117	.140	.550	-.040	-.070	.160	3.68

A199-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A199-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A198-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A211-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A211-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	21.7	2.69	1.25	-.730	.290	4.35	.090	76.4	.460	.190	.490	.380	.920	.520	14.5	.420	.920	.090	272	.490	-.030	389	.160	.460	.430	-.270	.260	3.24
A211-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A211-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB16	24.2	1.38	1.47	-.560	.310	4.24	.050	76.7	.300	.130	.610	2.09	.770	-.080	10.0	.400	1.06	.060	289	.190	-.020	248	.140	.570	-.330	.090	.340	2.91
A181-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A181-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	8.09	.190	2.27	-.060	-11.7	2.19	----	1.94	-.560	1.97	----	.790	6.72	----	1.04	-1.83	-.820	505	.850	.170	357	19.7	.160	2.70	2.07	1.50	2.31
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB17	27.4	1.73	1.09	-.640	.280	3.97	.060	79.6	.230	.170	.490	2.37	.230	.560	8.06	.550	.960	.160	352	.500	.020	234	.170	.360	.310	-.150	.250	2.80
IPA056WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA056WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA056WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB18	21.9	2.05	.240	-1.41	.210	4.14	-.060	17.7	.140	.070	.600	-1.96	.320	-.170	10.2	.410	.840	-.190	215	.170	-.020	132	.100	.230	-.280	.190	.130	-.100
WTA005SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A187-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB19	18.8	1.97	-.500	-1.44	.210	2.92	-.070	18.0	.240	.140	.340	-.570	.370	.870	7.46	.340	.840	-.190	222	1.50	-.010	535	.080	-.260	-.340	-.030	.080	-.190
WTA005SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A167-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A167-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A187-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB20	21.2	1.41	.780	-1.50	.210	2.96	-.100	18.0	.430	.080	.380	-1.22	-.120	.390	3.41	.370	.770	-.140	185	-.890	-.090	437	.080	-.300	-.070	-.080	.190	-.250
TXA012SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A564-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB21	24.0	2.04	.590	-1.45	.220	3.05	-.120	17.7	.120	.120	.450	.480	-.130	.110	2.23	.320	.770	-.150	163	1.28	-.060	350	.080	-.220	.170	.320	.300	-.280
A169-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A169-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB22	17.2	.690	1.07	-1.75	.080	.440	-.120	-17.9	.000	.120	.340	-2.75	-.010	.000	-.280	.110	.160	-.300	87.2	1.48	-.060	262	.000	-.100	.070	.010	.000	-1.57
TXA013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A519-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB23	15.5	1.17	.670	-1.74	.040	.950	-.150	-17.1	.070	.030	.220	-4.04	-.190	.010	1.95	.030	.050	-.330	95.8	.020	-.110	224	.030	-.020	-.420	.130	-.120	-1.33

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8A030001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8A030002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8A030003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8A030004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8A030005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8A030006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8A030007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8A030008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8A030009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8A030010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8A030011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8A030012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8A030013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8A030014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8A030015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLA3103		ID8A030016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLA3104		ID8A030017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8A030018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8A030019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8A030020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8A030021			1	☒	3XIDL	None
22	123	4	3	1	QC	IPA039WQ		ID8A030022			1	☒	LOD	None
23	124	4	4	1	QC	IPA039WX		ID8A030023			1	☒	LCS	None
24	125	4	5	1	QC	IPA039WY		ID8A030024			1	☒	LCS	None
25	126	4	6	1	Unk	A135-02A		ID8A030025			1	☒	unk	---
26	127	4	7	1	Unk	A135-02W		ID8A030026			1	☒	unk	---
27	128	4	8	1	Unk	A135-02J		ID8A030027			1	☒	unk	---
28	129	4	9	1	Unk	A135-03W		ID8A030028			1	☒	unk	---
29	130	4	10	1	Unk	A135-04W		ID8A030029			1	☒	unk	---
30	131	4	11	1	Unk	A135-05W		ID8A030030			1	☒	unk	---
31	132	4	12	1	Blank	Blank		ID8A030031			1	☐		---
32	133	4	1	2	QC	CCV2		ID8A030032			1	☒	CCV	None
33	134	4	2	2	QC	CCB2		ID8A030033			1	☒	LOD	None
34	135	4	3	2	Unk	A169-03A	5X	ID8A030034			1	☒	unk	---
35	136	4	4	2	Unk	A169-03I	5X	ID8A030035			1	☒	unk	---
36	137	4	5	2	Unk	A169-03J	25X	ID8A030036			1	☒	unk	---
37	138	4	6	2	Unk	A169-03G	5X	ID8A030037			1	☒	unk	---
38	139	4	7	2	Unk	A169-03H	5X	ID8A030038			1	☒	unk	---
39	140	4	8	2	Unk	A169-01W		ID8A030039			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	141	4	9	2	Unk	A169-02W		ID8A030040			1	☒	unk	—
41	142	4	10	2	Unk	A135-06W		ID8A030041			1	☒	unk	—
42	143	4	11	2	Unk	A135-07W		ID8A030042			1	☒	unk	—
43	144	4	12	2	Blank	Blank		ID8A030043			1	☐		—
44	145	4	1	3	QC	CCV3		ID8A030044			1	☒	CCV	None
45	146	4	2	3	QC	CCB3		ID8A030045			1	☒	3XIDL	None
46	9	2	9	1	QC	IPA050SB		ID8A030046			1	☒	1/2LOQ	None
47	10	2	10	1	QC	IPA050SL		ID8A030047			1	☒	LCS	None
48	11	2	11	1	QC	IPA050SC		ID8A030048			1	☒	LCS	None
49	12	2	12	1	Unk	A545-02A Fe7LDR	5X YELLOW	ID8A030049			1	☒	unk	—
50	13	2	1	2	Unk	A545-02T ↓	5X YELLOW	ID8A030050			1	☒	unk	—
51	14	2	2	2	Unk	A545-02J	25X YELLOW	ID8A030051			1	☒	unk	—
52	15	2	3	2	Unk	A545-02M Fe7LDR	5X YELLOW	ID8A030052			1	☒	unk	—
53	16	2	4	2	Unk	A545-02S ↓	5X YELLOW	ID8A030053			1	☒	unk	—
54	17	2	5	2	Unk	A545-01T ↓	5X YELLOW	ID8A030054			1	☒	unk	—
55	18	2	6	2	Blank	Blank		ID8A030055			1	☐		—
56	19	2	7	2	QC	CCV4		ID8A030056			1	☒	CCV	None
57	20	2	8	2	QC	CCB4		ID8A030057			1	☒	3XIDL	None
58	21	2	9	2	Unk	A545-03T Fe7LDR	5X YELLOW	ID8A030058			1	☒	unk	—
59	22	2	10	2	Unk	A545-04T ↓	5X YELLOW	ID8A030059			1	☒	unk	—
60	23	2	11	2	Unk	A545-05T ↓	5X YELLOW	ID8A030060			1	☒	unk	—
61	24	2	12	2	Unk	A546-01T ↓	5X YELLOW	ID8A030061			1	☒	unk	—
62	25	2	1	3	Unk	A546-02T ↓	5X YELLOW Cr,Zn7LDR	ID8A030062			1	☒	unk	—
63	26	2	2	3	Unk	A546-03T	5X YELLOW	ID8A030063			1	☒	unk	—
64	27	2	3	3	Unk	A546-04 Sb,Bn,Cr,Zn7LDR		ID8A030064			1	☒	unk	—
65	28	2	4	3	Unk	A546-05		ID8A030065			1	☒	unk	—
66	29	2	5	3	Blank	Blank		ID8A030066			1	☐		—
67	30	2	6	3	QC	CCV5		ID8A030067			1	☒	CCV	None
68	31	2	7	3	QC	CCB5		ID8A030068			1	☒	3XIDL	None
69	32	2	8	3	QC	IPA049SB		ID8A030069			1	☒	1/2LOQ	None
70	33	2	9	3	QC	IPA049SL		ID8A030070			1	☒	LCS	None
71	34	2	10	3	QC	IPA049SC		ID8A030071			1	☒	LCS	None
72	35	2	11	3	Unk	A219-03A		ID8A030072			1	☒	unk	—
73	36	2	12	3	Unk	A219-03		ID8A030073			1	☒	unk	—
74	37	2	1	4	Unk	A219-03J		ID8A030074			1	☒	unk	—
75	38	2	2	4	Unk	A219-03M		ID8A030075			1	☒	unk	—
76	39	2	3	4	Unk	A219-03S		ID8A030076			1	☒	unk	—
77	40	2	4	4	Unk	A219-06		ID8A030077			1	☒	unk	—
78	41	2	5	4	Blank	Blank		ID8A030078			1	☐		—

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	42	2	6	4	QC	CCV6		ID8A030079			1	☒	CCV	None
80	43	2	7	4	QC	CCB6		ID8A030080			1	☒	3XIDL	None
81	44	2	8	4	QC	IPA048SQ		ID8A030081			1	☒	1/2LOQ	None
82	45	2	9	4	QC	IPA048SX		ID8A030082			1	☒	LCS	None
83	46	2	10	4	QC	IPA048SY		ID8A030083			1	☒	LCS	None
84	47	2	11	4	Unk	A187-01A		ID8A030084			1	☒	unk	---
85	48	2	12	4	Unk	A187-01 W 7A2/1/11		ID8A030085			1	☒	unk	---
86	49	2	1	5	Unk	A187-01J		ID8A030086			1	☒	unk	---
87	50	2	2	5	Unk	A219-10		ID8A030087			1	☒	unk	---
88	52	2	4	5	Unk	A519-03		ID8A030088			1	☒	unk	---
89	51	2	3	5	Unk	A961-01		ID8A030089			1	☒	unk	---
90	53	2	5	5	Blank	Blank		ID8A030090			1	☐		---
91	54	2	6	5	QC	CCV7		ID8A030091			1	☒	CCV	None
92	55	2	7	5	QC	CCB7		ID8A030092			1	☒	3XIDL	None
93	56	2	8	5	Unk	A537-28	Pb	ID8A030093			1	☒	unk	---
94	57	2	9	5	Unk	A537-29	Pb	ID8A030094			1	☒	unk	---
95	58	2	10	5	Unk	A537-30	Pb	ID8A030095			1	☒	unk	---
96	59	2	11	5	Unk	A537-31	Pb	ID8A030096			1	☒	unk	---
97	60	2	12	5	Unk	A537-32	Pb	ID8A030097			1	☒	unk	---
98	61	3	1	1	Unk	A537-33	Pb	ID8A030098			1	☒	unk	---
99	62	3	2	1	Unk	A537-34	Pb	ID8A030099			1	☒	unk	---
100	63	3	3	1	Unk	A537-35	Pb	ID8A030100			1	☒	unk	---
101	64	3	4	1	Unk	A537-36	Pb	ID8A030101			1	☒	unk	---
102	65	3	5	1	Blank	Blank		ID8A030102			1	☐		---
103	66	3	6	1	QC	CCV8		ID8A030103			1	☒	CCV	None
104	67	3	7	1	QC	CCB8		ID8A030104			1	☒	3XIDL	None
105	68	3	8	1	Unk	A537-37	Pb	ID8A030105			1	☒	unk	---
106	69	3	9	1	Unk	A522-07	Pb	ID8A030106			1	☒	unk	---
107	70	3	10	1	Unk	A522-08	Pb	ID8A030107			1	☒	unk	---
108	71	3	11	1	Unk	A538-10	Pb	ID8A030108			1	☒	unk	---
109	72	3	12	1	Unk	A538-11	Pb	ID8A030109			1	☒	unk	---
110	73	3	1	2	Unk	A538-12	Pb	ID8A030110			1	☒	unk	---
111	74	3	2	2	Unk	A538-13	Pb	ID8A030111			1	☒	unk	---
112	75	3	3	2	Unk	A538-14	Pb	ID8A030112			1	☒	unk	---
113	76	3	4	2	Blank	Blank		ID8A030113			1	☐		---
114	77	3	5	2	QC	CCV9		ID8A030114			1	☒	CCV	None
115	78	3	6	2	QC	CCB9	Pb 326ppb	ID8A030115			1	☒	3XIDL	None
116	79	3	7	2	Unk	A561-01	Pb	ID8A030116			1	☒	unk	---
117	80	3	8	2	Unk	A561-02	Pb	ID8A030117			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	81	3	9	2	Unk	A561-03	Pb	ID8A030118			1	☒	unk	—
119	82	3	10	2	Unk	A561-04	Pb	ID8A030119			1	☒	unk	—
120	69	3	9	1	Blank	Blank		ID8A030120			1	☐		—
121	83	3	11	2	Blank	Blank		ID8A030121			1	☐		—
122	84	3	12	2	Blank	Blank		ID8A030122			1	☐		—
123	85	3	1	3	QC	CCV10		ID8A030123			1	☒	CCV	None
124	86	3	2	3	QC	CCB10		ID8A030124			1	☒	3XIDL	None
125	154	4	10	3	Unk	A545-02A	10X	ID8A030125			1	☒	unk	—
126	155	4	11	3	Unk	A545-02I	10X	ID8A030126			1	☒	unk	—
127	156	4	12	3	Unk	A545-02J	50X	ID8A030127			1	☒	unk	—
128	4	2	4	1	Unk	A545-02G	10X Fe↑	ID8A030128			1	☒	unk	—
129	5	2	5	1	Unk	A545-02H	10X	ID8A030129			1	☒	unk	—
130	157	4	1	4	Unk	A545-01I	10X	ID8A030130			1	☒	unk	—
131	158	4	2	4	Unk	A545-03I	10X	ID8A030131			1	☒	unk	—
132	159	4	3	4	Unk	A545-04I	10X Fe↑	ID8A030132			1	☒	unk	—
133	160	4	4	4	Unk	A545-05I	10X	ID8A030133			1	☒	unk	—
134	161	4	5	4	Blank	Blank		ID8A030134			1	☐		—
135	162	4	6	4	QC	CCV11		ID8A030135			1	☒	CCV	None
136	163	4	7	4	QC	CCB11	Zn 0.0103ppm	ID8A030136			1	☒	3XIDL	None
137	164	4	8	4	Unk	A546-01I	20X	ID8A030137			1	☒	unk	—
138	165	4	9	4	Unk	A546-02I	20X	ID8A030138			1	☒	unk	—
139	166	4	10	4	Unk	A546-03I	5X	ID8A030139			1	☒	unk	—
140	167	4	11	4	Unk	A546-04I	20X	ID8A030140			1	☒	unk	—
141	168	4	12	4	Unk	A546-05W		ID8A030141			1	☒	unk	—
142	169	4	1	5	Blank	Blank		ID8A030142			1	☐		—
143	170	4	2	5	QC	CCV12		ID8A030143			1	☒	CCV	None
144	171	4	3	5	QC	CCB12		ID8A030144			1	☒	3XIDL	None
145	172	4	4	5	QC	IPA057SB		ID8A030145			1	☒	1/2LOQ	None
146	173	4	5	5	QC	IPA057SL		ID8A030146			1	☒	LCS	None
147	174	4	6	5	QC	IPA057SC		ID8A030147			1	☒	LCS	None
148	175	4	7	5	Unk	A251-04A		ID8A030148			1	☒	unk	—
149	176	4	8	5	Unk	A251-04R		ID8A030149			1	☒	unk	—
150	177	4	9	5	Unk	A251-04J		ID8A030150			1	☒	unk	—
151	178	4	10	5	Unk	A251-04M		ID8A030151			1	☒	unk	—
152	179	4	11	5	Unk	A251-04S		ID8A030152			1	☒	unk	—
153	180	4	12	5	Unk	A251-06R		ID8A030153			1	☒	unk	—
154	1	2	1	1	Blank	Blank		ID8A030154			1	☐		—
155	2	2	2	1	QC	CCV13		ID8A030155			1	☒	CCV	None
156	3	2	3	1	QC	CCB13		ID8A030156			1	☒	3XIDL	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	87	3	3	3	QC	IPA051WB		ID8A030157			1	☒	1/2LOQ	None
158	88	3	4	3	QC	IPA051WL		ID8A030158			1	☒	LCS	None
159	89	3	5	3	QC	IPA051WC		ID8A030159			1	☒	LCS	None
160	90	3	6	3	Unk	A199-03A	TOT	ID8A030160			1	☒	unk	---
161	91	3	7	3	Unk	A199-03	TOT	ID8A030161			1	☒	unk	---
162	92	3	8	3	Unk	A199-03J	TOT	ID8A030162			1	☒	unk	---
163	147	4	3	3	Unk	A199-03M	TOT	ID8A030163			1	☒	unk	---
164	148	4	4	3	Unk	A199-03S	TOT	ID8A030164			1	☒	unk	---
165	93	3	9	3	Unk	A199-05	TOT CNTLDR	ID8A030165			1	☒	unk	---
166	96	3	12	3	Blank	Blank		ID8A030166			1	☐		---
167	97	3	1	4	QC	CCV14		ID8A030167			1	☒	CCV	None
168	98	3	2	4	QC	CCB14		ID8A030168			1	☒	3XIDL	None
169	94	3	10	3	Unk	A199-03	DISS	ID8A030169			1	☒	unk	---
170	95	3	11	3	Unk	A199-03M	DISS	ID8A030170			1	☒	unk	---
171	99	3	3	4	Unk	A199-03S	DISS	ID8A030171			1	☒	unk	---
172	100	3	4	4	Unk	A199-05	DISS	ID8A030172			1	☒	unk	---
173	101	3	5	4	Unk	A203-01	TOT	ID8A030173			1	☒	unk	---
174	102	3	6	4	Unk	A203-01	DISS	ID8A030174			1	☒	unk	---
175	103	3	7	4	Unk	A198-01		ID8A030175			1	☒	unk	---
176	104	3	8	4	Unk	A211-06	TOT	ID8A030176			1	☒	unk	---
177	105	3	9	4	Unk	A211-07	TOT CNTLDR	ID8A030177			1	☒	unk	---
178	108	3	12	4	Blank	Blank		ID8A030178			1	☐		---
179	109	3	1	5	QC	CCV15		ID8A030179			1	☒	CCV	None
180	110	3	2	5	QC	CCB15		ID8A030180			1	☒	3XIDL	None
181	106	3	10	4	Unk	A211-06	DISS	ID8A030181			1	☒	unk	---
182	107	3	11	4	Unk	A211-07	DISS	ID8A030182			1	☒	unk	---
183	111	3	3	5	Unk	A519-01T	5X COLORED	ID8A030183			1	☒	unk	---
184	112	3	4	5	Unk	A181-03	TOT	ID8A030184			1	☒	unk	---
185	113	3	5	5	Unk	A181-03M	TOT	ID8A030185			1	☒	unk	---
186	114	3	6	5	Unk	A181-03S	TOT	ID8A030186			1	☒	unk	---
187	115	3	7	5	Unk	A181-04	TOT	ID8A030187			1	☒	unk	---
188	116	3	8	5	Unk	A181-03	DISS	ID8A030188			1	☒	unk	---
189	117	3	9	5	Unk	A181-03M	DISS	ID8A030189			1	☒	unk	---
190	149	4	5	3	Blank	Blank		ID8A030190			1	☐		---
191	150	4	6	3	QC	CCV16		ID8A030191			1	☒	CCV	None
192	151	4	7	3	QC	CCB16		ID8A030192			1	☒	3XIDL	None
193	118	3	10	5	Unk	A181-03S	DISS	ID8A030193			1	☒	unk	---
194	119	3	11	5	Unk	A181-04	DISS	ID8A030194			1	☒	unk	---
195	120	3	12	5	Blank	Blank		ID8A030195			1	☐		---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
196	152	4	8	3	QC	ICSA2		ID8A030196			1	☒	ICSA	None
197	153	4	9	3	QC	ICSAB2		ID8A030197			1	☒	ICSAB	None
198	121	4	1	1	QC	CCV17		ID8A030198			1	☒	CCV	None
199	122	4	2	1	QC	CCB17		ID8A030199			1	☒	3XIDL	None
200	6	2	6	1	QC	IPA056WB		ID8A030200			1	☒	1/2LOQ	None
201	7	2	7	1	QC	IPA056WL		ID8A030201			1	☒	LCS	None
202	8	2	8	1	QC	IPA056WC		ID8A030202			1	☒	LCS	None
203	9	2	9	1	Blank	Blank		ID8A030203			1	☐		---
204	10	2	10	1	QC	CCV18		ID8A030204			1	☒	CCV	None
205	11	2	11	1	QC	CCB18		ID8A030205			1	☒	3XIDL	None
206	12	2	12	1	QC	WTA005SB -Th 21hh	STLC ↑Se -Tl	ID8A030206			1	☒	1/2LOQ	None
207	13	2	1	2	Unk	A169-03A -Tl	STLC ↑As, Se, Ag	ID8A030207			1	☒	unk	---
208	14	2	2	2	Unk	A169-03 -Tl	STLC	ID8A030208			1	☒	unk	---
209	15	2	3	2	Unk	A169-03J	STLC	ID8A030209			1	☒	unk	---
210	16	2	4	2	Unk	A169-03M	STLC	ID8A030210			1	☒	unk	---
211	17	2	5	2	Unk	A169-03S	STLC	ID8A030211			1	☒	unk	---
212	18	2	6	2	Unk	A169-01 -Tl	STLC	ID8A030212			1	☒	unk	---
213	19	2	7	2	Unk	A169-02 -Tl	STLC	ID8A030213			1	☒	unk	---
214	20	2	8	2	Unk	A187-01 -Tl	STLC ↑Al, Fe, Zn	ID8A030214			1	☒	unk	---
215	21	2	9	2	Blank	Blank		ID8A030215			1	☐		---
216	22	2	10	2	QC	CCV19		ID8A030216			1	☒	CCV	None
217	23	2	11	2	QC	CCB19		ID8A030217			1	☒	3XIDL	None
218	24	2	12	2	QC	WTA005SQ	5X STLC ↑Se -Tl	ID8A030218			1	☒	1/2LOQ	None
219	25	2	1	3	Unk	A169-03A	5X STLC ↑As, Se	ID8A030219			1	☒	unk	---
220	26	2	2	3	Unk	A169-03T	5X STLC	ID8A030220			1	☒	unk	---
221	27	2	3	3	Unk	A169-03J	25X STLC	ID8A030221			1	☒	unk	---
222	28	2	4	3	Unk	A169-03G	5X STLC	ID8A030222			1	☒	unk	---
223	29	2	5	3	Unk	A169-03H	5X STLC	ID8A030223			1	☒	unk	---
224	66	3	6	1	Unk	A167-01T	5X STLC	ID8A030224			1	☒	unk	---
225	67	3	7	1	Unk	A167-02T	5X STLC	ID8A030225			1	☒	unk	---
226	68	3	8	1	Unk	A187-01T	5X STLC -Tl	ID8A030226			1	☒	unk	---
227	30	2	6	3	Blank	Blank		ID8A030227			1	☐		---
228	31	2	7	3	QC	CCV20		ID8A030228			1	☒	CCV	None
229	32	2	8	3	QC	CCB20		ID8A030229			1	☒	3XIDL	None
230	33	2	9	3	QC	TXA012SB	TCLP	ID8A030230			1	☒	1/2LOQ	None
231	34	2	10	3	Unk	A519-06A	TCLP	ID8A030231			1	☒	unk	---
232	35	2	11	3	Unk	A519-06	TCLP	ID8A030232			1	☒	unk	---
233	36	2	12	3	Unk	A519-06J	TCLP	ID8A030233			1	☒	unk	---
234	37	2	1	4	Unk	A519-06M	TCLP	ID8A030234			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
235	38	2	2	4	Unk	A519-06S	TCLP	ID8A030235			1	☒	unk	—
236	39	2	3	4	Unk	A519-02	TCLP	ID8A030236			1	☒	unk	—
237	40	2	4	4	Unk	A519-07	TCLP	ID8A030237			1	☒	unk	—
238	41	2	5	4	Unk	A564-01	TCLP	ID8A030238			1	☒	unk	—
239	42	2	6	4	Blank	Blank		ID8A030239			1	☐		—
240	43	2	7	4	QC	CCV21		ID8A030240			1	☒	CCV	None
241	44	2	8	4	QC	CCB21		ID8A030241			1	☒	3XIDL	None
242	45	2	9	4	Unk	A169-01	TCLP	ID8A030242			1	☒	unk	—
243	46	2	10	4	Unk	A169-02	TCLP	ID8A030243			1	☒	unk	—
244	47	2	11	4	Unk	A169-03	TCLP	ID8A030244			1	☒	unk	—
245	48	2	12	4	Unk	A519-06A	5X TCLP	ID8A030245			1	☒	unk	—
246	49	2	1	5	Unk	A519-06T	5X TCLP	ID8A030246			1	☒	unk	—
247	50	2	2	5	Unk	A519-06J	25X TCLP	ID8A030247			1	☒	unk	—
248	51	2	3	5	Unk	A519-06G	5X TCLP	ID8A030248			1	☒	unk	—
249	52	2	4	5	Unk	A519-06H	5X TCLP	ID8A030249			1	☒	unk	—
250	53	2	5	5	Blank	Blank		ID8A030250			1	☐		—
251	54	2	6	5	QC	CCV22	failed	ID8A030251			1	☒	CCV	None
252	55	2	7	5	QC	CCB22		ID8A030252			1	☒	3XIDL	None
253	56	2	8	5	QC	TXA013WB	TCLP	ID8A030253			1	☒	1/2LOQ	None
254	57	2	9	5	Unk	A519-05A	TCLP	ID8A030254			1	☒	unk	—
255	58	2	10	5	Unk	A519-05	TCLP	ID8A030255			1	☒	unk	—
256	59	2	11	5	Unk	A519-05J	TCLP	ID8A030256			1	☒	unk	—
257	60	2	12	5	Unk	A519-05M	TCLP	ID8A030257			1	☒	unk	—
258	61	3	1	1	Unk	A519-05S	TCLP	ID8A030258			1	☒	unk	—
259	62	3	2	1	Unk	A519-04	TCLP	ID8A030259			1	☒	unk	—
260	63	3	3	1	Blank	Blank		ID8A030260			1	☐		—
261	64	3	4	1	QC	CCV23	failed	ID8A030261			1	☒	CCV	None
262	65	3	5	1	QC	CCB23		ID8A030262			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00126	.00002	-.00001	.00108	.00007	.00028	-.00003	.00050	.00000	-.00101	Blank
2	S20					.88552		.11253				S20
3	S21					8.5877		1.0330				S21
4	S22				.48923						.16537	S22
5	S23				4.7921						1.7296	S23
6	S24						.09225					S24
7	S25						.95999					S25
8	S26	.26493							.82974	.12587		S26
9	S27	9.6828							7.6327	1.2034		S27
10	S28		.00520									S28
11	S29		.05192									S29
12	S30			.00125								S30
13	S31			.00508								S31
14	ICV	104.00	1.4656	1.0382	1.9717	1.5225	2.4560	2.0008	77.547	2.4803	.90629	ICV
15	ICB	.01394	.00162	.00099	-.00150*	.00015	.00428	-.00011*	.00610	.00014	.00016	ICB
16	MRLA3103	.22994	.10409	.01138	.00903	.01038	.01043	.01084	1.0787	.01098	.00924	MRLA3103
17	MRLA3104	.22403	.05297	.01121	.00379*	.00436	.09769	.00545	.53440	.01093	.00911	MRLA3104
18	ICSA1	406.91	.00903	.00001	-.00050	-.00001	-.00897	.00134	489.95	.00176	-.00084	ICSA1
19	ICSAB1	407.51	1.0689	1.1168	.54995	.51060	.50628	1.0093	480.55	.50060	.46642	ICSAB1
20	CCV1	104.26	1.5426	1.0672	2.0158	1.5135	2.4764	2.0567	74.060	2.5303	.92784	CCV1
21	CCB1	.02526	.00176	.00018	-.00050	.00035	.00415	.00021	.05795	.00037	.00029	CCB1
22	IPA039WQ	.01162	.00011	.00100	-.00163	-.00002	.00231	-.00009	.01783	-.00004	.00019	IPA039WQ
23	IPA039WX	5.4911	2.6209	.53808	.50959	.51077	.50211	.52054	51.197	.51360	.48353	IPA039WX
24	IPA039WY	5.5615	2.6511	.54822	.51505	.51400	.51102	.52875	50.375	.51990	.48945	IPA039WY
25	A135-02A	5.9206	2.6205	.63507	.94917	.50634	.74243	.50090	251.78	.50817	.48662	A135-02A
26	A135-02W	.11635	.00212	.07363	.44160	.00002	.22867	-.00014	208.97	.00123	-.00070	A135-02W
27	A135-02J	.02548	.00052	.01575	.08609	-.00001	.04483	-.00013	43.179	.00051	-.00013	A135-02J
28	A135-03W	.49847	.00040	.09115	.30885	-.00002	.27130	-.00015	185.26	.00131	-.00032	A135-03W
29	A135-04W	.26192	.00070	.09075	.30710	-.00006	.26802	-.00016	185.69	.00127	-.00057	A135-04W
30	A135-05W	.16893	.00032	.08548	.40804	-.00001	.26884	-.00015	183.42	.00110	-.00058	A135-05W
31	Blank	.00597	.00016	.00028	-.00134	.00008	.00112	.00002	.13986	-.00002	.00013	Blank
32	CCV2	102.21	1.5213	1.0237	1.9775	1.4733	2.4141	1.9253	72.918	2.3963	.92933	CCV2
33	CCB2	.01267	.00185	.00092	-.00066	.00027	.00380	.00010	.04285	.00034	.00019	CCB2
34	A169-03A	25.767	2.4777	.63107	.56494	.52125	.48881	.50505	54.465	.53823	.58498	A169-03A
35	A169-03I	19.735	.00795	.10112	.05324	.00542	.00355	.00015	3.6705	.02861	.09208	A169-03I
36	A169-03J	3.9532	.00125	.02114	.00921	.00108	.00143	-.00005	.75067	.00576	.01809	A169-03J
37	A169-03G	29.677	.40410	.21978	15225	.10952	.09145	.10226	14.137	.14312	.13837	A169-03G
38	A169-03H	31.205	.39902	.20237	.14854	.10667	.09060	.09889	14.192	.13906	.11159	A169-03H
39	A169-01W	83.438	.00119	.03225	.27835	.00363	.02694	.00002	8.9103	.07785	.02669	A169-01W
40	A169-02W	67.266	.00385	.04662	.34429	.00370	.02975	.00041	29.632	.09453	.03247	A169-02W
41	A135-06W	.05598	-.00003	.02836	.54230	-.00011	.26604	-.00020	384.27	.00088	.00148	A135-06W
42	A135-07W	.88886	-.00027	.07108	.51516	-.00001	.29690	-.00013	171.47	.00174	.00004	A135-07W
43	Blank	.00356	.00005	-.00072	-.00143	.00005	.00087	-.00007	.06700	.00014	.00008	Blank
44	CCV3	102.09	1.5192	1.0164	1.9808	1.4726	2.4082	1.8973	72.731	2.3832	.93086	CCV3
45	CCB3	.01201	.00161	.00040	-.00063*	.00024	.00375	.00011*	.04115	.00026	.00006	CCB3
46	IPA050SB	.00368	.00061	-.00088	-.00130	.00002	.00174	-.00023	.05453	.00017	-.00010	IPA050SB
47	IPA050SL	5.1446	2.4769	.50442	.50370	.50221	.46342	.48980	50.371	.50025	.49047	IPA050SL
48	IPA050SC	5.1375	2.4720	.50083	.49782	.49589	.46285	.48601	50.066	.49676	.48545	IPA050SC
49	A545-02A	17.749	2.5604	.55858	.58727	.51526	.50233	.51508	53.864	.73203	.61551	A545-02A
50	A545-02T	11.845	.03190	.02282	.06348	.00024	.04384	.02602	-4.1082	.23361	.10167	A545-02T
51	A545-02J	2.1953	.00676	.00406	.01075	.00015	-.00036	.00182	.81611	.04617	.01946	A545-02J
52	A545-02M	13.207	.49011	.12055	.17161	.10074	.12839	.12954	15.322	.36768	.18415	A545-02M
53	A545-02S	20.057	.47969	.12320	.23856	.10120	.13437	.12149	14.534	.60935	.17061	A545-02S
54	A545-01T	1.3020	.03754	.05301	3.4222	-.00008	.02700	.01787	1.4302	.88377	.16477	A545-01T

55	Blank	.00385	.00059	.00003	-.00118	.00004	.00058	-.00002	.04058	.00007	.00018	Blank
56	CCV4	102.40	1.5145	1.0175	1.9894	1.4752	2.4072	1.9110	72.606	2.3959	.93188	CCV4
57	CCB4	.01287	.00148	.00082	-.00066*	.00027	.00414	.00010	.04225	.00025	.00018	CCB4
58	A545-03T	13.063	.02827	.09198	.12140	.00064	.05251	.01865	4.0809	.40109	.05426	A545-03T
59	A545-04T	12.086	.05164	.16087	.09290	.00017	.06272	.02423	18.459	.27453	.10267	A545-04T
60	A545-05T	4.7482	.03252	.08086	5.5772	.00162	.08961	.02002	10.111	.10218	.04134	A545-05T
61	A546-01T	5.7271	.04159	.03485	.11738	.00005	.06533	.03412	8.0443	.22924	.04362	A546-01T
62	A546-02T	2.0099	.05733	.07289	.50705	-.00003	.05368	.03280	10.570	.48269	.17399	A546-02T
63	A546-03T	3.5726	.00634	.00243	.05097	.00002	.00307	.00148	.97473	.03795	.00360	A546-03T
64	A546-04	296.83	31.599*	.04658	49.919*	.00023	.04791	.03312	622.90	29.690*	2.0954	A546-04
65	A546-05	85.450	.02232	.00362	1.3846	.00045	.01511	.00449	40.949	.73798	1.7821	A546-05
66	Blank	.00576	.00496	.00079	-.00112	.00003	.00021	-.00010	.04785	.00028	.00012	Blank
67	CCV5	102.57	1.5225	1.0154	1.9737	1.4722	2.3961	1.8977	73.007	2.3812	.92801	CCV5
68	CCB5	.01483	.00363*	.00057	-.00066*	.00025	.00376	.00009	.04069	.00033	.00015	CCB5
69	IPA049SB	.00737	.00266	-.00002	-.00119	.00001	.00157	-.00020	.01511	.00014	.00006	IPA049SB
70	IPA049SL	4.8342	2.4183	.49091	.49084	.48414	.43716	.47948	49.098	.49356	.48843	IPA049SL
71	IPA049SC	5.2131	2.4835	.50807	.50440	.50042	.46690	.49075	50.725	.50428	.48932	IPA049SC
72	A219-03A	123.00	2.4824	.61328	1.5826	.51648	.47947	.51467	122.01	.70701	.55968	A219-03A
73	A219-03	119.30	.01422	.08847	1.0924	.00862	.01775	.03684	75.425	.21918	.06411	A219-03
74	A219-03J	23.597	.00317	.01809	.21415	.00178	.00348	.00716	15.241	.04446	.01235	A219-03J
75	A219-03M	204.10	2.0960	.59423	1.7729	.49984	.47045	.49190	124.92	.75624	.54648	A219-03M
76	A219-03S	197.78	2.0192	.58604	1.7998	.49624	.45697	.48478	123.62	.74572	.54230	A219-03S
77	A219-06	115.56	.01293	.10547	1.1402	.00925	.01887	.03057	42.724	.23836	.06725	A219-06
78	Blank	.01192	.00123	-.00005	-.00144	.00003	.00060	-.00003	.03913	-.00008	.00001	Blank
79	CCV6	102.20	1.5201	1.0205	1.9785	1.4718	2.4138	1.9145	72.766	2.4041	.92936	CCV6
80	CCB6	.01381	.00253	.00015	-.00071*	.00028	.00373	.00007	.04168	.00034	.00010	CCB6
81	IPA048SQ	.00227	.00205	-.00149	.00001	.00001	.00123	-.00023	.01685	.00019	.00004	IPA048SQ
82	IPA048SX	5.2263	2.5215	.51418	.50920	.51108	.46463	.50057	51.393	.51159	.49830	IPA04BSX
83	IPA048SY	5.2114	2.5041	.51233	.50770	.50695	.46154	.49706	51.196	.50999	.49715	IPA04BSY
84	A187-01A	137.21	3.6552	.86071	4.1227	.72929	1.5510	.70857	275.92	1.0732	.83200	A187-01A
85	A187-01W	144.23	.03691	.05051	3.7567	.00296	.97957	.03376	233.30	.40251	.05589	A187-01W
86	A187-01J	19.832	.00510	.00615	.50766	.00044	.13493	.00422	33.540	.05469	.00757	A187-01J
87	A219-10	105.43	.01315	.08099	1.0787	.00702	.01698	.01640	30.181	.18489	.04730	A219-10
88	A519-03	.03684	.06870	.00098	.18528	-.00006	.09914	.00311	1.1840	.00312	-.00001	A519-03
89	A961-01	328.27	-.03596	.53669	.30876	.00411	.08968	.02033	184.13	1.7072	.09800	A961-01
90	Blank	.02538	.00002	.00065	-.00154	.00004	.00048	-.00008	.05318	.00024	.00004	Blank
91	CCV7	103.80	1.5343	1.0336	1.9857	1.4849	2.4113	1.9340	72.922	2.4100	.92906	CCV7
92	CCB7	.01742	.00163	.00027	-.00070*	.00030	.00363	.00006	.04387	.00033	.00010	CCB7
93	A537-28	74.604	-.00339	.00039	28.068	.00053	.22907	.12332	650.98	1.3806	.01983	A537-28
94	A537-29	79.531	-.00101	.00421	25.168	.00046	.04659	.10600	772.55	.45662	.01861	A537-29
95	A537-30	49.103	.00429	.00169	21.510	.00024	.02237	.06677	523.68	.21641	.01250	A537-30
96	A537-31	54.716	-.00332	.00115	17.050	.00020	.02666	.03749	345.12	.24651	.01185	A537-31
97	A537-32	76.535	-.00119	-.00095	42.842	.00046	.03769	.13515	717.23	.48948	.01571	A537-32
98	A537-33	79.293	-.00388	.00332	34.438	.00034	.04185	.12089	834.03	.69225	.01449	A537-33
99	A537-34	47.655	.00128	-.00017	29.501	.00028	.01926	.08089	545.76	.17600	.01108	A537-34
100	A537-35	69.187	.00197	.00494	22.406	.00031	.09772	.06751	612.44	1.1821	.04837	A537-35
101	A537-36	40.587	.01884	.01166	.60697	.00053	.10191	.01144	605.45	.08897	.58151	A537-36
102	Blank	.01761	.00034	-.00055	.00034	.00019	.00032	.00008	.16574	.00047	.00012	Blank
103	CCV8	104.28	1.5354	1.0328	2.0027	1.4956	2.4433	1.9448	73.774	2.4392	.93823	CCV8
104	CCB8	.01770	.00144	.00057	-.00031	.00034	.00324	.00015*	.14719*	.00039	.00016	CCB8
105	A537-37	43.529	-.00034	.00439	3.6543	.00047	.08843	.00934	77.456	1.3617	.09682	A537-37
106	A522-07	45.418	.59540	1.3179	.76965	.00111	.04381	.28912	498.28	3.2356	.64530	A522-07
107	A522-08	37.356	-.03249	3.4638	.03401	.00016	.00988	.00008	3.3638	3.5373	.00125	A522-08
108	A538-10	88.900	.07894	-.00045	.44165	.00091	.06312	.32613	238.14	.09107	1.5690	A538-10
109	A538-11	39.110	120.82*	1.1944	11.783	.00040	.04191	.56669	156.91	.21108	1.0758	A538-11
110	A538-12	80.817	45.687*	5.7178	27.281	.00154	.07350	2.4343	394.90	8.1934	1.3772	A538-12
111	A538-13	39.131	324.34*	.38334	10.455	.00034	.07531	.87886	413.16	6.5556	.91782	A538-13

112	A538-14	52.051	18.975*	6.9118	29.079	.00069	.11868	2.6870	130.41	2.2345	1.1833	A538-14
113	Blank	.01810	.09858	.00077	.00314	.00014	.00023	.00013	.06645	.00032	.00014	Blank
114	CCV9	105.17	1.5852	1.0327	2.0162	1.4986	2.4356	1.9254	72.479	2.4170	.94301	CCV9
115	CCB9	.01438	.02690*	.00149*	-.00057*	.00015	.00240	.00000	.07242	.00029	.00012	CCB9
116	A561-01	74.690	.03862	-.00012	.42018	.00066	.14264	.04237	807.95	.23548	.07968	A561-01
117	A561-02	60.407	.00579	.04486	.24600	.00053	.21497	.00288	2428.7*	.29414	.02016	A561-02
118	A561-03	62.802	.03201	.00063	.34611	.00053	.13107	.02737	631.40	.35726	.00748	A561-03
119	A561-04	56.046	.00713	.00116	.84409	.00060	.39240	.02260	556.68	.38405	.06167	A561-04
120	Blank	.02133	.00702	.00083	-.00050	.00016	.00081	.00010	.16425	.00032	.00012	Blank
121	Blank	.00751	.00635	.00087	-.00149	.00006	.00043	-.00004	.04522	.00002	.00001	Blank
122	Blank	.01635	.00532	.00022	-.00033	.00016	.00015	.00009	.05373	.00021	.00027	Blank
123	CCV10	104.79	1.5465	1.0402	2.0158	1.5015	2.4684	1.9446	72.863	2.4329	.94160	CCV10
124	CCB10	.01644	.00563*	.00076	-.00055*	.00025	.00361	.00007	.07815	.00027	.00011	CCB10
125	A545-02A	11.540	2.5227	.54467	.54696	.51403	.47927	.50793	50.866	.61625	.54776	A545-02A
126	A545-02I	5.9013	.01979	.01049	.02998	.00015	.00689	.01026	2.0501	.11872	.05051	A545-02I
127	A545-02J	1.1083	.00654	.00276	.00449	.00001	-.00217	.00093	.40091	.02322	.00950	A545-02J
128	A545-02G	6.4445	.24285	.06056	.08299	.05004	.04785	.06186	7.5556	.18259	.08930	A545-02G
129	A545-02H	9.8638	.24012	.06164	.11587	.05035	.05682	.05966	7.1662	.30583	.08301	A545-02H
130	A545-01I	.65023	.02177	.02369	1.6777	-.00002	.00725	.00639	.70756	.44101	.07996	A545-01I
131	A545-03I	6.4939	.01622	.04620	.06000	.00032	.01662	.00714	2.0467	.20627	.02697	A545-03I
132	A545-04I	5.9627	.02820	.07870	.04577	.00010	.01238	.00750	9.2034	.13945	.05063	A545-04I
133	A545-05I	2.3640	.01804	.03964	2.8109	.00083	.03322	.00759	5.0338	.05168	.02045	A545-05I
134	Blank	.00490	.00164	.00097	-.00137	.00002	-.00010	-.00010	-.00255	-.00003	.00011	Blank
135	CCV11	105.05	1.5372	1.0480	2.0179	1.5033	2.4788	1.9748	72.794	2.4651	.93852	CCV11
136	CCB11	.02248	.00344*	.00049	-.00061*	.00032	.00385	.00007	.22408*	.00030	.00013	CCB11
137	A546-01I	1.4211	.01291	.01004	.02777	.00002	.00630	.00275	2.0344	.06001	.01127	A546-01I
138	A546-02I	.50590	.01628	.01856	.11785	.00001	-.00330	.00384	2.7651	.12877	.04355	A546-02I
139	A546-03I	3.6875	.00887	.00096	.05017	.00003	-.00144	.00186	.97583	.03844	.00348	A546-03I
140	A546-04I	15.779	1.5552	.00294	2.6726	.00001	.00225	.00166	33.119	1.6414	.10224	A546-04I
141	A546-05W	88.549	-.00093	.00308	1.4815	.00044	.01318	.00495	40.426	.75470	1.7834	A546-05W
142	Blank	.02973	.00223	.00008	.00100	.00024	-.00003	.00016	.21306	.00051	.00025	Blank
143	CCV12	106.87	1.5415	1.0561	2.0301	1.5180	2.4828	1.9929	73.112	2.4815	.93607	CCV12
144	CCB12	.01405	.00202	.00020	-.00146*	.00019	.00361	-.00006	.02170	.00011	.00005	CCB12
145	IPA057SB	.02062	.00309	-.00123	-.00142	.00004	.00131	-.00024	.03193	.00020	-.00013	IPA057SB
146	IPA057SL	5.2873	2.5046	.52335	.51744	.52026	.47595	.51599	51.214	.52873	.49851	IPA057SL
147	IPA057SC	5.3288	2.5093	.52667	.51843	.52065	.47506	.51827	51.626	.53031	.50129	IPA057SC
148	A251-04A	33.461	2.4337	.53226	.72071	.52519	.47118	.51109	55.673	.57085	.50743	A251-04A
149	A251-04R	27.279	.00810	.00744	.20548	.00083	.00797	.00210	5.4958	.04976	.00515	A251-04R
150	A251-04J	5.5554	.00205	.00077	.03896	.00015	.00179	.00030	1.0823	.00992	.00095	A251-04J
151	A251-04M	76.705	2.4802	.52914	.74711	.52221	.48450	.50909	57.403	.58583	.50494	A251-04M
152	A251-04S	71.282	2.5333	.54060	.74075	.53363	.49173	.52059	58.079	.59320	.51340	A251-04S
153	A251-06R	34.012	.02114	.00767	.17212	.00101	.00913	.00030	3.5897	.05574	.00550	A251-06R
154	Blank	.02751	.00239	.00122	.00030	.00022	.00059	.00017	.11558	.00032	.00024	Blank
155	CCV13	106.79	1.5507	1.0640	2.0244	1.5214	2.4825	2.0222	73.630	2.5002	.93655	CCV13
156	CCB13	.01483	.00294	.00157*	-.00142*	.00022	.00364	-.00008	.02275	.00018	.00014	CCB13
157	IPA051WB	.01007	.00070	.00061	-.00164	.00003	.00285	-.00013	-.00168	.00006	.00007	IPA051WB
158	IPA051WL	5.6901	2.6401	.55573	.51582	.52469	.51345	.53763	50.345	.52136	.48307	IPA051WL
159	IPA051WC	5.7731	2.6313	.55547	.51962	.52950	.51820	.53859	50.250	.52833	.48804	IPA051WC
160	A199-03A	6.1002	2.6681	.59670	.53144	.53283	1.0948	.53513	62.675	.93651	.49581	A199-03A
161	A199-03	.05233	.00047	.01092	.00609	.00005	.58172	-.00009	12.553	.42476	-.00012	A199-03
162	A199-03J	.01849	.00056	.00234	-.00013	.00003	.11287	-.00016	2.5426	.08515	.00000	A199-03J
163	A199-03M	6.0126	2.7045	.59250	.52856	.52741	1.1170	.53243	62.155	.94459	.48995	A199-03M
164	A199-03S	5.9628	2.6878	.58349	.52031	.51935	1.0978	.52350	61.346	.92865	.48209	A199-03S
165	A199-05	.09703	-.15952*	.01095	.02477	-.00008	.91634	.00011	62.314	17.308*	.00168	A199-05
166	Blank	.02039	.00068	.00055	-.00030	.00021	.00246	.00007	.06034	.00132	.00006	Blank
167	CCV14	107.98	1.5578	1.0729	2.0359	1.5269	2.5087	2.0447	73.573	2.5199	.93947	CCV14
168	CCB14	.01830	.00240	.00050	-.00057*	.00026	.00433	.00005	.07584	.00042	.00012	CCB14

169	A199-03	.20000	-.00076	.01062	.00839	.00001	.59997	-.00011	13.093	.29448	-.00003	A199-03
170	A199-03M	6.2755	2.7502	.59635	.53598	.53099	1.1300	.53686	62.788	.81726	.49265	A199-03M
171	A199-03S	6.2855	2.7447	.59541	.53608	.53266	1.1404	.53742	63.050	.82431	.49545	A199-03S
172	A199-05	.03692	-.14470*	.01031	.01827	-.00001	.89637	.00005	58.244	15.685*	.00132	A199-05
173	A203-01	.25496	.00046	.04680	.08384	.00003	.80854	.00151	155.11	.42061	.02847	A203-01
174	A203-01	.03100	.00325	.02680	.07013	-.00002	.80792	.00156	142.54	.06944	.02352	A203-01
175	A198-01	.08485	.00142	.00613	.03397	-.00002	.58003	.00019	83.983	.00561	-.00009	A198-01
176	A211-06	.21786	-.00655	.00886	.00957	.00001	.85947	-.00002	62.262	.88344	.00033	A211-06
177	A211-07	.12403	-.33335*	.01712	.00486	-.00016	1.0606	.00042	39.070	35.799*	.00270	A211-07
178	Blank	.02049	.00088	.00114	-.00032	.00018	.00337	.00009	.05848	.00270	.00013	Blank
179	CCV15	108.14	1.5367	1.0704	2.0417	1.5434	2.5255	2.0509	74.578	2.5614	.93507	CCV15
180	CCB15	.02172	.00269	.00125*	-.00073*	.00029	.00435	.00009	.07642	.00046	.00019	CCB15
181	A211-06	.04104	.00006	.00532	.00947	-.00001	.90320	-.00006	76.438	.16492	-.00002	A211-06
182	A211-07	.03544	-.31010*	.01411	-.00033	-.00014	.99667	.00036	35.237	33.065*	.00229	A211-07
183	A519-01T	.03892	.00065	.06820	-.00080	.00002	.33749	-.00011	15.919	.00623	-.00020	A519-01T
184	A181-03	.03622	.00065	.01013	.13845	.00000	.07153	-.00012	94.615	.00131	.00199	A181-03
185	A181-03M	6.0144	2.6707	.57568	.66662	.53331	.59962	.53751	142.86	.53044	.48954	A181-03M
186	A181-03S	6.1086	2.6914	.58586	.67754	.54415	.60908	.54581	143.75	.54142	.49808	A181-03S
187	A181-04	.11562	.00227	.00163	.07865	.00008	.00732	-.00015	4.4724	.00157	.00016	A181-04
188	A181-03	.02421	.00072	.00766	.12835	.00002	.06863	-.00022	92.748	.00069	.00209	A181-03
189	A181-03M	5.8713	2.5935	.56488	.64342	.52608	.58486	.52650	137.01	.52509	.48404	A181-03M
190	Blank	.02215	.00175	.00064	-.00016	.00022	.00164	.00013	.06410	.00031	.00025	Blank
191	CCV16	108.41	1.5563	1.0807	2.0425	1.5384	2.5257	2.0744	73.986	2.5585	.93863	CCV16
192	CCB16	.02416	.00138	.00147*	-.00056*	.00031	.00424	.00005	.07670	.00030	.00013	CCB16
193	A181-03S	6.0739	2.6698	.57908	.66902	.54287	.60388	.54232	141.55	.54035	.49847	A181-03S
194	A181-04	.03668	.00197	.00089	.06935	.00011	.00718	-.00009	2.1905	.00044	.00004	A181-04
195	Blank	.02431	.00078	.00050	-.00033	.00019	.00143	.00012	.04796	.00027	.00013	Blank
196	ICSA2	408.82	.00809	.00019	.00227	-.00006	-.01173	.00219	478.37	.00194	-.00056	ICSA2
197	ICSAB2	406.74	1.0479	1.1005	.54109	.50675	.50156	.99505	467.66	.49505	.46139	ICSAB2
198	CCV17	107.90	1.5523	1.0788	2.0486	1.5419	2.5465	2.0839	74.284	2.5763	.93894	CCV17
199	CCB17	.02741	.00173	.00109	-.00064*	.00028	.00397	.00006	.07960	.00023	.00017	CCB17
200	IPA056WB	.01600	.00064	.00035	-.00181	.00000	.00342	-.00014	-.00442	.00006	-.00009	IPA056WB
201	IPA056WL	5.9457	2.6367	.57309	.53316	.54655	.52694	.56602	51.413	.55225	.49556	IPA056WL
202	IPA056WC	5.7184	2.6332	.55348	.51401	.52575	.52545	.54444	50.588	.53157	.47662	IPA056WC
203	Blank	.02867	.00197	-.00050	.00026	.00027	.00181	.00018	.11650	.00032	.00032	Blank
204	CCV18	108.13	1.5418	1.0787	2.0522	1.5454	2.5356	2.0746	73.821	2.5744	.93682	CCV18
205	CCB18	.02190	.00205	.00024	-.00141*	.00021	.00414	-.00006	.01774	.00014	.00007	CCB18
206	WTA005SB	.04293	-.00640	.00142	-.00009	.00000	.00543	-.00027	.02649	.00498	.00001	WTA005SB
207	A169-03A	8.4282	2.8402	.73333	1.0426	.52781	.58397	.55359	85.613	.56697	.68370	A169-03A
208	A169-03	2.2330	-.00511	.02155	.52373	.00355	.01974	.00193	37.632	.00823	.19319	A169-03
209	A169-03J	.43386	.00010	.00394	.10147	.00073	.00437	.00025	7.6260	.00175	.03867	A169-03J
210	A169-03M	8.5352	2.9302	.74438	1.0535	.53055	.59703	.55615	86.665	.57225	.68945	A169-03M
211	A169-03S	8.4009	2.9205	.73626	1.0200	.52920	.59582	.55544	84.667	.56965	.67946	A169-03S
212	A169-01	.89103	-.00589	.01175	1.4677	.00043	.01361	.00015	11.956	.00520	.01644	A169-01
213	A169-02	1.8211	-.00477	.00847	.01440	.00066	.00738	.00071	41.304	.00621	.00931	A169-02
214	A187-01	446.11*	.04713	.10346	9.0974	.00805	2.2705	.11859	806.21	.68749	.04546	A187-01
215	Blank	.03609	.00111	.00028	.00058	.00023	.00085	.00016	.13883	.00034	.00014	Blank
216	CCV19	108.15	1.5479	1.0887	2.0369	1.5450	2.5329	2.1177	74.696	2.6128	.93284	CCV19
217	CCB19	.01883	.00197	-.00050	-.00144*	.00021	.00292	-.00007	.01796	.00024	.00014	CCB19
218	WTA005SQ	.04751	.00022	.00058	-.00088	.00006	.00317	-.00022	.01864	.00193	.00001	WTA005SQ
219	A169-03A	8.4282	2.6974	.63329	.63302	.54361	.55943	.58164	58.680	.57343	.54667	A169-03A
220	A169-03T	.43820	.00174	.00487	.10159	.00080	.00438	.00031	7.7075	.00196	.03874	A169-03T
221	A169-03J	.10070	.00065	.00173	.01892	.00024	.00101	.00006	1.5172	.00053	.00755	A169-03J
222	A169-03G	3.2091	1.0910	.26321	.41075	.21694	.22974	.23503	35.435	.23333	.27476	A169-03G
223	A169-03H	3.1643	1.0861	.25752	.39835	.21467	.22920	.23158	34.427	.22946	.26941	A169-03H
224	A167-01T	.19187	-.00039	.00336	.28843	.00016	.00313	.00002	2.4680	.00112	.00327	A167-01T
225	A167-02T	.35946	-.00071	.00123	.00183	.00016	.00166	.00008	8.4418	.00140	.00187	A167-02T

226	A187-01T	73.359	.02265	.00777	1.5703	.00181	.38659	.01655	152.59	.12196	.00806	A187-01T
227	Blank	.03129	-.00010	.00088	.00033	.00023	.00020	.00010	.12039	.00086	.00020	Blank
228	CCV20	108.69	1.5458	1.0991	2.0555	1.5500	2.5518	2.1498	73.767	2.6364	.93514	CCV20
229	CCB20	.02115	.00141	.00078	-.00150*	.00021	.00296	-.00010	.01798	.00043	.00008	CCB20
230	TXA012SB	.03084	.00083	-.00225	-.00084	.00004	.00906	-.00022	-.00617	.00035	.00001	TXA012SB
231	A519-06A	6.1525	2.6036	.60108	.80341	.53553	.72383	.56228	65.945	.54806	.49323	A519-06A
232	A519-06	.14785	.00320	-.00003	.28431	.00008	.19530	-.00014	16.055	.00113	.00014	A519-06
233	A519-06J	.04610	.00144	-.00070	.05557	.00012	.03774	.00000	3.2528	.00039	.00015	A519-06J
234	A519-06M	6.1762	2.7071	.59823	.80063	.53447	.74144	.55651	64.800	.54491	.48969	A519-06M
235	A519-06S	6.2118	2.6999	.60600	.82879	.53972	.75799	.56493	66.057	.55140	.49536	A519-06S
236	A519-02	.07243	.00241	-.00131	.28298	.00009	.23909	.00106	7.3316	.00053	.00046	A519-02
237	A519-07	.06812	.00249	-.00033	.19712	.00006	.20696	.00583	5.2788	.00151	.00072	A519-07
238	A564-01	.03795	-.00278	.00007	.14427	.00003	.04782	-.00019	119.22	.36268	-.00029	A564-01
239	Blank	.03224	.00137	.00003	.00039	.00024	.00044	.00017	.12551	.00046	.00021	Blank
240	CCV21	108.75	1.5461	1.0900	2.0633	1.5514	2.5523	2.1246	73.808	2.6149	.94057	CCV21
241	CCB21	.02403	.00204	.00059	-.00145*	.00022	.00305	-.00012*	.01770	.00012	.00012	CCB21
242	A169-01	.05139	.00191	.00152	.50128	.00015	.23185	-.00013	3.9846	.00048	.00022	A169-01
243	A169-02	.09215	.00073	-.00015	.21210	.00024	.23468	.00004	13.422	.00030	.00341	A169-02
244	A169-03	.09490	.00056	.00058	.18130	.00065	.23133	-.00008	9.7796	.00065	.00009	A169-03
245	A519-06A	5.9377	2.5882	.58260	.58336	.54082	.56579	.57001	54.171	.55329	.49232	A519-06A
246	A519-06T	.04738	.00366	.00207	.05598	.00014	.03872	-.00004	3.2838	.00024	.00005	A519-06T
247	A519-06J	.02770	.00185	.00089	.01057	.00021	.00803	.00004	.67267	.00024	.00012	A519-06J
248	A519-06G	1.1762	.51683	.11312	.15768	.10694	.14221	.11542	13.148	.11037	.09627	A519-06G
249	A519-06H	1.1899	.51490	.11301	.16366	.10793	.14532	.11607	13.373	.11174	.09685	A519-06H
250	Blank	.03382	.00187	-.00030	.00028	.00026	.00067	.00014	.11505	.00034	.00026	Blank
251	CCV22	12.083*	.16861*	.11813*	.22883*	.17364*	.27471*	.24503*	8.3432*	.29770*	.10419*	CCV22
252	CCB22	.01715	.00069	.00107	-.00175*	.00008	.00044	-.00012*	-.01795	.00000	.00012	CCB22
253	TXA013WB	.01914	.00040	.00137	-.00173	.00005	.00153	-.00018	-.00682	.00004	.00014	TXA013WB
254	A519-05A	6.0629	2.5431	.57099	.76589	.54190	.86126	.55799	57.234	.54819	.48941	A519-05A
255	A519-05	.04800	.00613	-.00018	.24283	.00011	.33736	-.00001	6.6526	.00053	.00008	A519-05
256	A519-05J	.02233	.00161	.00082	.04684	.00001	.06605	-.00013	1.3413	.00017	.00012	A519-05J
257	A519-05M	6.0984	2.6761	.57424	.77073	.54490	.88210	.56177	57.376	.55045	.48890	A519-05M
258	A519-05S	6.1376	2.6359	.57798	.78388	.54806	.88800	.56972	57.205	.55718	.49300	A519-05S
259	A519-04	.03894	.00288	-.00043	.25569	.00018	.30572	.00008	6.0376	.00059	.00019	A519-04
260	Blank	.01599	.00111	.00067	-.00181	.00008	.00124	-.00010	-.01374	.00011	.00007	Blank
261	CCV23	11.984*	.16627*	.11609*	.22679*	.17244*	.27269*	.24192*	8.2760*	.29470*	.10339*	CCV23
262	CCB23	.01548	.00117	.00067	-.00174*	.00004	.00095	-.00015*	-.01705	.00007	.00003	CCB23
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00147	.00000	.00000	.00008	.00001	.00004	.00003	-.00061	-.00013	.00000	Blank
2	S20			.20509			.10992					S20
3	S21			2.0163			1.0728					S21
4	S22	.34506	.05377									S22
5	S23	3.3349	2.0513									S23
6	S24							.80876				S24
7	S25							8.1044				S25
8	S26								.82986	.32070		S26
9	S27								7.7754	3.2319		S27
10	S28					.10059						S28
11	S29					.41286						S29
12	S30				.02865						.00141	S30
13	S31				.14037						.00564	S31
14	ICV	2.4941	25.009	2.3545	.52700	57.409	2.3604	2.4166	2.4243	58.418	1.0130	ICV
15	ICB	.00021	-.00057	-.00019	-.00005	.00769	.00038	.00053*	-.00005	.08629	.00003	ICB
16	MRLA3103	.01075	.22058	.00970	.01061	1.0114	.01034	.01020	.01020	1.0264	.01113	MRLA3103
17	MRLA3104	.01104	.10818	.00318	.10097	.19842	.00539	.01002	.01025	.99138	.01131	MRLA3104
18	ICSA1	.00145	190.47	.00041	.00581	195.67	.00080	-.00171	-.00095	.09482	.00073	ICSA1
19	ICSAB1	.56715	189.77	.92611	1.1637	196.07	.47763	1.0183	.98369	79.965	1.1044	ICSAB1
20	CCV1	2.5946	24.732	2.3534	.53407	56.844	2.4111	2.4548	2.4420	58.348	1.0667	CCV1
21	CCB1	.00044	.00552	.00044	.00015	.01368	.00069	.00077	.00027	.13403*	.00081	CCB1
22	IPA039WQ	.00192	.00239	.00039	-.00010	.00454	.00013	.00014	.00018	.02665	-.00061	IPA039WQ
23	IPA039WX	.52633	5.3291	.49854	.00007*	48.310	.49100	.52001	.47493	49.307	.52906	IPA039WX
24	IPA039WY	.53552	5.3705	.50506	.00000*	47.384	.51459	.52437	.48134	48.860	.53759	IPA039WY
25	A135-02A	.55037	11.941	.49708	.00678	99.033	4.3243	.55858	.47183	57.910	.55103	A135-02A
26	A135-02W	.00161	7.0208	.00122	.00603	51.527	3.9408	.03654	.00039	5.4336	.00078	A135-02W
27	A135-02J	.00061	1.4358	.00047	.00098	10.277	.80522	.00706	.00004	1.0615	.00058	A135-02J
28	A135-03W	.00204	5.2558	.00078	.00446	44.975	3.4556	.03824	.00046	5.7978	-.00075	A135-03W
29	A135-04W	.00161	5.0732	.00135	.00465	45.262	3.5770	.03877	.00024	5.7868	.00096	A135-04W
30	A135-05W	.00204	6.4406	.00142	.00494	45.246	2.8778	.04424	.00125	5.9027	-.00095	A135-05W
31	Blank	.00040	-.00033	-.00027	-.00008	.01061	.00059	.00023	.00000	.09343	-.00110	Blank
32	CCV2	2.5058	24.083	2.3726	.52553	54.792	2.3187	2.4929	2.4491	57.574	1.0231	CCV2
33	CCB2	.00041	.00346	-.00026	.00060	.01036	.00045	.00078	.00026	.10734*	.00036	CCB2
34	A169-03A	.54664	112.44	.51733	.00643	50.025	1.2817	.54160	.53902	50.158	.52473	A169-03A
35	A169-03I	.01950	110.28	.01685	.00571	2.9256	.82378	.02590	.05974	1.2570	.00524	A169-03I
36	A169-03J	.00411	22.470	.00356	.00129	.60131	.16801	.00504	.01170	.26209	.00120	A169-03J
37	A169-03G	.12648	121.56	.11810	.00836	13.026	.83897	.12935	.16408	10.959	.10660	A169-03G
38	A169-03H	.12236	113.19	.11396	.00946	13.001	.20069	.12402	.14283	10.808	.10234	A169-03H
39	A169-01W	.02952	83.799	.03205	.06447	20.876	.52319	.00117	.02805	14.032	.00255	A169-01W
40	A169-02W	.07808	99.084	.09594	.07228	21.856	.97214	.04163	.04161	19.923	.00414	A169-02W
41	A135-06W	.00214	9.1403	.00103	.03346	123.85	2.7106	.05304	.00368	9.3535	-.00007	A135-06W
42	A135-07W	.00294	3.1552	.00158	.00503	39.816	3.0996	.04348	.00100	6.0836	-.00078	A135-07W
43	Blank	.00030	.00048	-.00024	-.00020	.00810	.00055	.00020	-.00009	.08247	.00031	Blank
44	CCV3	2.5074	24.036	2.3768	.52881	54.594	2.3134	2.5064	2.4529	57.943	1.0166	CCV3
45	CCB3	.00045	.00299	-.00024	.00035	.00819	.00042	.00060*	.00001	.10746	.00016	CCB3
46	IPA050SB	.00032	.01299	.00006	-.00022	.00648	.00535*	.00026	.00002	.08236	-.00031	IPA050SB
47	IPA050SL	.51147	5.1560	.49611	-.00006*	46.722	.48263	.53332	.46516	48.491	.49720	IPA050SL
48	IPA050SC	.50820	5.1308	.49075	-.00048*	46.477	.47789	.52869	.46038	48.478	.49100	IPA050SC
49	A545-02A	.85395	820.66*	.53090	.00823	51.984	7.7782	.56083	.61157	52.900	.53356	A545-02A
50	A545-02T	.28882	841.88*	.01892	.00724	5.5324	7.5307	.01244	.11724	2.3216	.00396	A545-02T
51	A545-02J	.05471	176.85	.00307	.00135	1.1000	1.5077	.00257	.02228	.48410	-.00056	A545-02J
52	A545-02M	.43728	886.79*	.11766	.00751	15.650	8.2452	.12070	.21269	12.426	.10180	A545-02M
53	A545-02S	.67708	836.22*	.14639	.01010	20.875	7.0642	.12219	.33413	14.933	.10508	A545-02S
54	A545-01T	3.2265	827.24*	.05943	.00133	3.9337	5.8004	.26738	2.1168	.24382	.00458	A545-01T

55	Blank	.00047	.05803	.00016	.00026	-.00540	.00070	.00025	-.00002	.01650	-.00038	Blank
56	CCV4	2.5155	24.117	2.3697	.52789	54.734	2.3206	2.4962	2.4518	57.577	1.0167	CCV4
57	CCB4	.00054	.00560	.00012	.00000	.00710	.00047	.00078*	.00031	.07252	-.00051	CCB4
58	A545-03T	.61770	682.78*	.17437	.00982	16.114	2.5967	.04676	.37963	3.1524	.00506	A545-03T
59	A545-04T	1.0037	908.88*	.14449	.00901	2.2362	4.4301	.07451	.41289	1.2838	.00698	A545-04T
60	A545-05T	.40803	744.76*	.01901	.02759	4.0701	2.7894	.06931	.18659	1.1621	.00436	A545-05T
61	A546-01T	.11827	1187.5*	.01505	.00102	5.3765	5.1810	.00712	.18742	1.2030	.00721	A546-01T
62	A546-02T	40.584*	995.15*	.38818	.00777	1.9027	3.2680	.16965	.77868	.88163	.00805	A546-02T
63	A546-03T	.07765	202.38	.01347	.00159	2.3398	.50252	.00770	.02313	.26287	.00266	A546-03T
64	A546-04	5.2154	109.67	14.276	.13841	20.514	.85045	.07263	.48058	15.235	.00699	A546-04
65	A546-05	.30981	72.334	.20109	.06099	11.195	.33646	.00812	.04953	12.550	.00406	A546-05
66	Blank	.00035	.00165	-.00008	.00058	.00729	.00015	.00009	-.00021	-.00337	-.00015	Blank
67	CCV5	2.4966	24.240	2.3685	.52092	54.944	2.3126	2.5066	2.4466	57.081	1.0110	CCV5
68	CCB5	.00074	.00330	.00031	.00041	.00765	.00049	.00067*	.00019	.06107	.00009	CCB5
69	IPA049SB	.00043	.01476	.00037	-.00033	.00700	.00038	.00025	.00006	.05866	.00035	IPA049SB
70	IPA049SL	.50439	5.0209	.47894	-.00055*	45.620	.47014	.54507	.46217	46.968	.48023	IPA049SL
71	IPA049SC	.51789	5.1948	.49745	.00012*	47.226	.48552	.53649	.46549	48.654	.49667	IPA049SC
72	A219-03A	.64286	210.57	.73472	.07961	62.779	3.1635	.53715	.58480	59.351	.52548	A219-03A
73	A219-03	.09435	215.78	.25619	.07903	16.587	2.7859	.00882	.10887	9.7679	.00659	A219-03
74	A219-03J	.01825	44.231	.05167	.01463	3.3361	.56747	.00176	.02102	1.8857	.00165	A219-03J
75	A219-03M	.64364	227.50	.76804	.16227	66.596	3.2712	.52521	.58588	66.228	.49178	A219-03M
76	A219-03S	.62222	221.61	.99933	.15594	66.065	3.1934	.51413	.58244	65.030	.49112	A219-03S
77	A219-06	.09986	243.27	.31622	.07590	11.059	2.9571	.00985	.10698	9.3933	.00811	A219-06
78	Blank	.00029	.01859	.00022	.00014	-.00032	.00050	.00016	.00006	.04390	-.00021	Blank
79	CCV6	2.5103	24.117	2.3689	.52312	54.856	2.3226	2.4976	2.4497	57.249	1.0202	CCV6
80	CCB6	.00049	.00471	.00054	.00013	.00383	.00058*	.00071*	.00031	.07111	.00052	CCB6
81	IPA048SQ	.00024	.01380	-.00013	-.00028	.00920	.00018	.00036	-.00007	.06047	-.00003	IPA048SQ
82	IPA048SX	.52199	5.2785	.49776	.00034*	47.982	.48909	.54990	.48654	48.785	.50218	IPA048SX
83	IPA048SY	.52260	5.2449	.49627	-.00008*	47.997	.48839	.54772	.48642	48.742	.49975	IPA048SY
84	A187-01A	11.074	289.98	1.7129	.05393	193.36	5.0979	.91351	1.0925	168.83	.93207	A187-01A
85	A187-01W	11.568	323.75	1.0733	.05805	138.54	4.9928	.06598	.38402	106.21	.07994	A187-01W
86	A187-01J	1.5239	45.825	.15391	.00742	18.967	.70351	.00864	.05212	13.938	.00973	A187-01J
87	A219-10	.07292	201.35	.24981	.05669	8.1555	3.1074	.00783	.06439	7.3826	.00586	A219-10
88	A519-03	.11357	1.0123	.04150	.00033	.16350	.00227	.20389	.00056	.13388	.00134	A519-03
89	A961-01	.99734	608.92*	.15601	.03299	20.680	2.6747	.00517	.75342	8.9320	.02251	A961-01
90	Blank	.00042	.04572	.00012	.00019	.00626	.00038	.00009	-.00001	.04694	-.00011	Blank
91	CCV7	2.5225	24.398	2.3682	.51951	55.370	2.3310	2.5096	2.4491	56.814	1.0306	CCV7
92	CCB7	.00060	.00445	.00026	-.00001	.01181	.00047	.00083*	.00022	.07436	-.00115	CCB7
93	A537-28	.19149	132.37	.51731	.04318	121.38	1.0774	.00891	.11463	8.4950	.00380	A537-28
94	A537-29	.14065	127.89	.78078	.02702	15.400	.66903	.01487	.12410	3.2427	.00378	A537-29
95	A537-30	.10743	104.94	.53465	.01476	10.197	.63096	.01061	.15935	2.3190	.00224	A537-30
96	A537-31	.18184	85.707	.34823	.01079	8.8795	.28570	.00840	.10241	1.6714	.00291	A537-31
97	A537-32	.12173	146.22	.79883	.02239	10.593	1.1526	.01026	.30302	4.6913	.00444	A537-32
98	A537-33	.13232	131.02	.75707	.02404	13.806	.80643	.01522	.18731	3.7717	.00384	A537-33
99	A537-34	.08036	102.81	.67462	.01501	7.0229	.67461	.00908	.19015	2.4105	.00235	A537-34
100	A537-35	.29494	384.18	.71123	.02973	29.799	1.8662	.02281	.21612	2.1397	.00622	A537-35
101	A537-36	.06657	16.522	.45615	.01510	12.555	.27775	.00938	.28279	1.7205	.00222	A537-36
102	Blank	.00064	.00806	.00084	-.00026	.00778	.00042	.00048	.00015	.01367	.00145	Blank
103	CCV8	2.5532	24.437	2.3896	.52487	55.723	2.3559	2.5186	2.4706	57.899	1.0369	CCV8
104	CCB8	.00060	.00506	.00072	.00029	.01007	.00066*	.00082*	.00035	.07380	-.00017	CCB8
105	A537-37	.80718	406.78	.28446	.01432	12.177	1.9529	.03046	2.6469	2.0472	.00460	A537-37
106	A522-07	.37778	55.551	446.23*	.03361	5.7194	.58729	.02846	.03539	4.1902	.01441	A522-07
107	A522-08	1.5570	.79982	.03424	.00317	1.5568	.01557	.00076	.01152	.85701	.00265	A522-08
108	A538-10	1.0687	45.603	3.3539	.23158	9.9006	.21904	.01205	.04542	15.418	.00807	A538-10
109	A538-11	.33441	25.612	213.47*	.15187	10.260	.24355	.03339	.01869	7.8012	.08436	A538-11
110	A538-12	.46116	69.892	794.00*	.12780	46.276	1.2067	.06020	.10509	9.9583	.04737	A538-12
111	A538-13	.48184	78.682	154.35*	.31459	20.114	1.0000	.46472	.01229	6.0311	.00574	A538-13

112	A538-14	.57947	41.788	830.39*	.09159	46.954	.79165	.04061	.07416	8.2119	.23743	A538-14
113	Blank	.00081	.00397	.02633	.00019	.01259	.00036	.00046	.00008	.04924	.00048	Blank
114	CCV9	2.5878	24.230	2.3956	.53008	55.033	2.3323	2.5400	2.4793	57.544	1.0376	CCV9
115	CCB9	.00066	.00159	.00326*	.00042	.00425	.00031	.00058*	.00011	.05663	-.00053	CCB9
116	A561-01	.10810	83.748	1.6871	.08664	37.555	2.3242	.01120	.04911	6.7129	.00036	A561-01
117	A561-02	.16943	52.051	.13459	.07243	234.14	1.2264	.00051	.10478	4.0416	.00704	A561-02
118	A561-03	.05837	87.153	2.1140	.07968	19.820	1.9642	.04039	.03445	6.1882	.00289	A561-03
119	A561-04	.19887	64.862	1.9432	.11215	54.515	2.0115	.01938	.07372	17.037	.00022	A561-04
120	Blank	.00058	.00873	.00208	-.00031	.01025	.00058	.00040	.00032	.05188	-.00012	Blank
121	Blank	.00034	-.00028	.00228	.00009	.00146	.00021	.00012	-.00012	.02925	.00083	Blank
122	Blank	.00068	.00057	.00198	-.00005	.00737	.00032	.00045	.00028	.03524	.00004	Blank
123	CCV10	2.6010	24.256	2.3862	.53184	55.241	2.3442	2.5325	2.4812	58.265	1.0447	CCV10
124	CCB10	.00054	.00023	.00179	-.00009	.00788	.00052*	.00065*	.00018	.08095	-.00004	CCB10
125	A545-02A	.69755	416.35	.50813	.00353	48.737	4.1007	.53265	.53905	50.034	.53259	A545-02A
126	A545-02I	.14572	432.59	.01033	.00333	2.7742	3.8119	.00615	.05776	1.1532	.00432	A545-02I
127	A545-02J	.02797	88.126	.00280	.00062	.55019	.76340	.00104	.01087	.26074	.00050	A545-02J
128	A545-02G	.21436	452.51*	.05785	.00335	7.7126	4.0841	.05744	.10319	5.8946	.05099	A545-02G
129	A545-02H	.33415	424.68	.07223	.00493	10.275	3.5220	.05853	.16276	7.1302	.05392	A545-02H
130	A545-01I	1.5921	415.96	.02993	.00079	1.9514	2.9000	.12589	1.0270	.13678	.00336	A545-01I
131	A545-03I	.31235	349.86	.08671	.00487	8.1103	1.3233	.02261	.18669	1.5504	.00246	A545-03I
132	A545-04I	.50007	469.77*	.07203	.00397	1.1202	2.2407	.03534	.20232	.63994	.00353	A545-04I
133	A545-05I	.20413	382.21	.00946	.01314	2.0364	1.4101	.03321	.09112	.57586	.00164	A545-05I
134	Blank	.00015	.02417	.00096	-.00028	.00304	.00020	.00015	.00006	.01967	.00019	Blank
135	CCV11	2.6120	24.355	2.3751	.52992	55.518	2.3554	2.5091	2.4700	58.038	1.0492	CCV11
136	CCB11	.00078	.00603	.00126	.00032	.00753	.00068*	.00060*	.00023	.06567	-.00047	CCB11
137	A546-01I	.02984	323.05	.00342	-.00009	1.3962	1.3545	.00221	.04612	.32521	.00104	A546-01I
138	A546-02I	11.108	276.37	.09701	.00151	.50646	.86595	.04044	.19498	.24994	.00154	A546-02I
139	A546-03I	.07732	202.36	.01396	.00178	2.3578	.50370	.00751	.02274	.27972	.00164	A546-03I
140	A546-04I	.25029	5.9081	.73737	.00570	1.0614	.04434	.00319	.02342	.66825	-.00021	A546-04I
141	A546-05W	.32482	72.090	.19987	.06175	11.237	.33953	.00755	.04929	12.641	.00344	A546-05W
142	Blank	.00085	.00805	.00099	.00030	.01065	.00062	.00055	.00031	.03073	.00002	Blank
143	CCV12	2.6257	24.472	2.3687	.53077	56.005	2.3806	2.5074	2.4668	58.236	1.0538	CCV12
144	CCB12	.00049	-.00079	.00059	.00068	.00534	.00033	.00053*	-.00005	.07009	.00055	CCB12
145	IPA057SB	.00036	.01808	.00285	-.00024	.00135	.00066	.00037	-.00007	.05709	.00160	IPA057SB
146	IPA057SL	.54240	5.2442	.49622	-.00011*	48.325	.49995	.54410	.47190	49.770	.51342	IPA057SL
147	IPA057SC	.54381	5.2947	.49858	.00030*	48.760	.50095	.54602	.47480	49.994	.51674	IPA057SC
148	A251-04A	.60867	29.844	.71474	.01240	49.504	.93057	.53009	.50583	53.125	.51884	A251-04A
149	A251-04R	.05919	26.016	.23547	.01119	2.2353	.45498	.00223	.02258	4.4292	.00198	A251-04R
150	A251-04J	.01165	5.2597	.04628	.00207	.44196	.09094	.00040	.00429	.90037	-.00059	A251-04J
151	A251-04M	.61477	35.476	.71184	.03115	51.402	.96728	.53609	.52962	54.749	.51617	A251-04M
152	A251-04S	.62011	33.977	.70659	.02833	52.170	.95016	.54558	.53272	56.004	.52364	A251-04S
153	A251-06R	.61348	40.132	4.8630	.01355	2.1092	.16648	.00324	.02632	3.7601	.00050	A251-06R
154	Blank	.00075	.00777	.00129	.00031	.00814	.00055	.00058	.00021	.05754	-.00077	Blank
155	CCV13	2.6273	24.659	2.3650	.52870	56.542	2.3901	2.5024	2.4637	58.011	1.0650	CCV13
156	CCB13	.00057	-.00021	.00103	.00009	.00951	.00024	.00058*	-.00015	.06793	.00043	CCB13
157	IPA051WB	.00046	.00149	.00094	-.00025	-.00012	.00117	.00024	-.00012	.03291	-.00040	IPA051WB
158	IPA051WL	.54741	5.2952	.49459	.00025*	48.046	.49442	.51400	.47369	48.686	.54924	IPA051WL
159	IPA051WC	.55375	5.3597	.50127	.00044*	47.826	.50096	.51666	.47811	48.780	.54970	IPA051WC
160	A199-03A	.57436	5.3788	.49900	.01025	57.195	.51590	.53711	.48241	62.650	.57637	A199-03A
161	A199-03	.00181	.00400	.00046	.01005	9.3789	.01467	.01704	.00166	11.670	.00094	A199-03
162	A199-03J	.00080	.00322	-.00004	.00198	1.8816	.00292	.00337	.00025	2.2943	-.00133	A199-03J
163	A199-03M	.57133	5.2803	.49272	.01078	57.083	.50773	.53855	.47886	62.414	.57467	A199-03M
164	A199-03S	.56300	5.2344	.48517	.01088	56.336	.50039	.53501	.47135	61.320	.56585	A199-03S
165	A199-05	.00345	.17373	-.00181	.03922	44.300	.16469	.00741	.00669	16.648	.00299	A199-05
166	Blank	.00065	.00220	.00060	.00130	.01016	.00033	.00056	.00009	.21745	-.00052	Blank
167	CCV14	2.6512	24.691	2.3783	.53467	56.494	2.3982	2.5051	2.4718	58.641	1.0722	CCV14
168	CCB14	.00049	.00169	.00059	.00023	.01371	.00054*	.00099*	.00011	.14608*	.00091	CCB14

169	A199-03	.00353	.33160	.00074	.00941	8.5069	.01915	.01735	.00183	12.432	.00066	A199-03
170	A199-03M	.57692	5.6790	.49551	.01029	56.390	.51717	.54637	.48118	63.237	.57763	A199-03M
171	A199-03S	.58088	5.6826	.49715	.01083	56.459	.51869	.54866	.48399	63.934	.57754	A199-03S
172	A199-05	.00206	.05204	-.00168	.03763	43.637	.15270	.00715	.00667	16.413	.00347	A199-05
173	A203-01	.00266	131.92	.00199	.06880	73.643	5.3545	.00245	.02049	20.568	.00743	A203-01
174	A203-01	.00167	124.57	.00104	.06546	73.018	5.0943	-.00014	.01489	20.313	.00611	A203-01
175	A198-01	.09270	.07443	.00118	.02406	9.4312	.11954	.02145	.00238	5.6118	.00087	A198-01
176	A211-06	.00272	12.389	.00057	.04305	61.138	1.1625	.00065	.00183	32.084	.00307	A211-06
177	A211-07	.00225	.16535	-.00321	.05863	68.237	.09506	.00547	.00091	36.830	.00415	A211-07
178	Blank	.00060	.00174	.00058	.00077	.02036	.00033	.00042	.00023	.36045	.00025	Blank
179	CCV15	2.6550	25.054	2.3627	.53281	57.578	2.4332	2.4833	2.4556	59.133	1.0626	CCV15
180	CCB15	.00049	.00038	.00092	.00052	.01449	.00042	.00092*	.00009	.27220*	.00049	CCB15
181	A211-06	.00208	13.496	.00008	.04445	63.859	1.1654	-.00010	.00098	32.627	.00331	A211-06
182	A211-07	.00260	.06369	-.00275	.05347	63.921	.08005	.00529	.00080	34.707	.00365	A211-07
183	A519-01T	.00624	-.00186	.00030	.01430	7.2729	.00027	.01674	-.00006	488.31	.03214	A519-01T
184	A181-03	.00111	13.235	.00087	.06194	17.193	1.2390	.00132	.00044	14.883	-.00086	A181-03
185	A181-03M	.57517	18.362	.49527	.06482	66.311	1.7355	.52213	.47545	65.621	.55006	A181-03M
186	A181-03S	.58072	18.392	.50382	.06513	66.873	1.7502	.52749	.48260	66.503	.55945	A181-03S
187	A181-04	.00154	.06869	-.00008	.04825	.64407	.00445	.01522	.00042	50.495	.00046	A181-04
188	A181-03	.00129	10.749	.00051	.06087	17.048	1.2305	.00195	.00053	14.005	.00080	A181-03
189	A181-03M	.56007	15.546	.49064	.06201	64.816	1.6765	.51410	.46893	63.658	.54880	A181-03M
190	Blank	.00064	.00299	.00024	.00019	.01668	.00042	.00064	.00012	.33223	.00001	Blank
191	CCV16	2.6884	24.769	2.3670	.53323	57.094	2.4226	2.4901	2.4640	58.782	1.0796	CCV16
192	CCB16	.00061	.00209	.00077	-.00008	.01001	.00040	.00106*	.00006	.28857*	.00019	CCB16
193	A181-03S	.58122	16.049	.50264	.06472	66.677	1.7437	.52854	.48262	65.635	.56425	A181-03S
194	A181-04	.00131	.00260	.00001	.04595	.13669	.00048	.01479	.00025	48.221	.00063	A181-04
195	Blank	.00051	.00027	.00028	.00031	.00302	.00017	.00045	.00004	.28575	.00033	Blank
196	ICSA2	.00197	186.86	.00079	.00672	196.61	.00104	-.00183	-.00082	.50545	.00085	ICSA2
197	ICSAB2	.56981	184.55	.90922	1.1182	193.33	.46977	1.0018	.96802	78.262	1.0890	ICSAB2
198	CCV17	2.6868	24.747	2.3639	.53689	57.228	2.4408	2.4741	2.4616	59.473	1.0806	CCV17
199	CCB17	.00049	.00237	.00023	.00056	.00806	.00055*	.00096*	.00016	.35164*	.00050	CCB17
200	IPA056WB	.00044	-.00122	-.00036	-.00015	.00455	.00004	.00011	-.00019	.27148	.00029	IPA056WB
201	IPA056WL	.57644	5.4967	.50747	.00048*	49.336	.51818	.51098	.47030	50.049	.56829	IPA056WL
202	IPA056WC	.55371	5.2778	.48741	.00053*	48.595	.49910	.50830	.45276	49.590	.54897	IPA056WC
203	Blank	.00078	.00114	.00040	.00022	.01542	.00054	.00070	.00025	.26004	.00091	Blank
204	CCV18	2.6889	24.815	2.3575	.53595	57.236	2.4379	2.4786	2.4596	59.175	1.0774	CCV18
205	CCB18	.00060	-.00196	.00032	-.00017	.01017	.00041	.00084*	-.00019	.21513*	.00017	CCB18
206	WTA005SB	.00219	.00673	-.00040	.00213	.00155	.00134	.00046	-.00017	1.2468*	.03763*	WTA005SB
207	A169-03A	.65927	6.5617	.48425	.00634	58.572	2.8436	.56238	.53330	59.239	.81881	A169-03A
208	A169-03	.01926	1.3168	.00910	.00619	12.088	2.4427	.02561	.06076	2.1510	.03087	A169-03
209	A169-03J	.00433	.26223	.00150	.00119	2.4676	.49607	.00494	.01217	.67058	.00631	A169-03J
210	A169-03M	.66701	6.6089	.48857	.00644	59.291	2.8668	.57246	.52633	60.929	.83441	A169-03M
211	A169-03S	.66126	6.5217	.48830	.00575	58.487	2.7420	.57222	.52339	60.042	.81706	A169-03S
212	A169-01	.00531	.49801	.00477	.00396	8.0401	.13975	.00053	.00325	2.1368	.03156	A169-01
213	A169-02	.01554	3.4242	.00355	.01690	12.123	.25097	.00404	.01477	4.1749	.03201	A169-02
214	A187-01	11.307	919.18*	2.3450	.05846	333.96	18.100	.08003	.59613	434.16	.18200	A187-01
215	Blank	.00079	.02029	.00058	.00038	.01591	.00106	.00053	.00021	.51821	.00003	Blank
216	CCV19	2.6697	25.087	2.3523	.53194	57.824	2.4500	2.4591	2.4491	59.037	1.0810	CCV19
217	CCB19	.00034	-.00057	.00037	.00087	.00746	.00034	.00084*	-.00019	.22248*	.00150	CCB19
218	WTA005SQ	.00237	-.00225	-.00007	.00093	.00845	.00055	.00039	-.00051	.57123*	.01333*	WTA005SQ
219	A169-03A	.60264	5.7801	.50644	.00172	51.272	1.0081	.53194	.49702	53.145	.65313	A169-03A
220	A169-03T	.00445	.26553	.00125	.00130	2.4960	.49777	.00518	.01218	.44387	.00516	A169-03T
221	A169-03J	.00135	.05201	.00051	.00070	.49265	.10026	.00105	.00236	.23356	.00054	A169-03J
222	A169-03G	.24468	2.7184	.19961	.00191	24.296	1.1740	.21903	.20999	22.605	.28042	A169-03G
223	A169-03H	.24325	2.6606	.19891	.00227	23.559	1.1104	.21823	.20760	22.314	.27332	A169-03H
224	A167-01T	.00179	.10111	.00134	.00093	1.6761	.02855	.00040	.00052	.43028	.00471	A167-01T
225	A167-02T	.00350	.69646	.00012	.00350	2.4886	.05089	.00096	.00269	.75122	.00584	A167-02T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
226	A187-01T	1.7492	176.70	.45914	.01137	60.967	3.3366	.01455	.11121	70.880	.02654	A187-01T
227	Blank	.00070	.00875	.00052	.00029	.00860	.00053	.00050	.00024	.21769	-.00010	Blank
228	CCV20	2.7043	25.116	2.3543	.53797	57.414	2.4469	2.4497	2.4525	59.089	1.0927	CCV20
229	CCB20	.00038	-.00122	-.00012	.00039	.00341	.00037	.00077*	-.00014	.18453*	-.00089	CCB20
230	TXA012SB	.00103	-.00295	-.00033	.00010	-.00058	.00005	.00040	-.00036	.26420	.00253	TXA012SB
231	A519-06A	.58650	5.3751	.49320	.29389	49.139	.63195	.51092	.48286	53.076	.61272	A519-06A
232	A519-06	.00148	.05622	.00004	.29493	1.0970	.13024	.00027	.00643	1.1182	.00315	A519-06
233	A519-06J	.00078	.00986	.00020	.05658	.22917	.02610	.00024	.00128	.36406	.00063	A519-06J
234	A519-06M	.58999	5.3656	.48930	.27610	49.183	.62034	.52019	.46874	53.076	.61028	A519-06M
235	A519-06S	.59521	5.3897	.49426	.29849	49.453	.63454	.51988	.47394	53.544	.61917	A519-06S
236	A519-02	.00269	.05065	.00086	.00130	3.8651	.09783	.00024	.00239	1.9515	.00213	A519-02
237	A519-07	1.2471	.34603	.00747	.00077	3.4348	.04074	.00042	.16307	2.1419	.00259	A519-07
238	A564-01	.00214	.00362	.00160	.00181	.18247	.00017	.00106	-.00023	1.9846	.00221	A564-01
239	Blank	.00057	.00261	.00037	.00063	.00782	.00038	.00055	.00012	.19936	.00002	Blank
240	CCV21	2.7322	24.698	2.3601	.54041	57.291	2.4552	2.4585	2.4585	59.577	1.0935	CCV21
241	CCB21	.00045	.00048	-.00013	.00011	.00223	.00032	.00077*	-.00015	.16253*	.00128	CCB21
242	A169-01	.00203	-.00162	.00032	.00071	2.8511	.00126	.00022	-.00018	.74590	.00349	A169-01
243	A169-02	.00209	.04317	-.00012	.00674	3.5769	.06880	.00091	.00544	1.6174	.00315	A169-02
244	A169-03	.00244	-.00074	-.00013	.00107	3.8639	.00077	.00004	.00019	.79499	.00318	A169-03
245	A519-06A	.57591	5.4420	.49946	.05812	49.149	.53942	.50647	.47907	50.719	.58079	A519-06A
246	A519-06T	.00079	.00925	.00013	.05632	.23852	.02640	.00034	.00115	.33188	.00050	A519-06T
247	A519-06J	.00058	.00223	.00002	.01162	.06231	.00559	.00021	.00017	.17638	.00039	A519-06J
248	A519-06G	.11357	1.0900	.09785	.05184	9.8247	.12586	.09932	.09245	10.102	.11355	A519-06G
249	A519-06H	.11432	1.1018	.09870	.05585	9.8815	.12872	.09906	.09276	10.183	.11420	A519-06H
250	Blank	.00068	.00266	.00007	.00014	.00509	.00065	.00063	.00022	.12322	.00021	Blank
251	CCV22	.29971*	2.8600*	.26693*	.05702*	6.3889*	.28163*	.26711*	.27560*	6.4661*	.11591*	CCV22
252	CCB22	.00034	-.00275	-.00001	.00000	-.00028	.00011	.00016	-.00030	.08716	.00148	CCB22
253	TXA013WB	.00027	-.00024	.00049	.00032	.00093	.00004	.00011	-.00031	.08824	-.00048	TXA013WB
254	A519-05A	.58216	5.6279	.49995	.00182	50.999	.53021	.52231	.47396	50.805	.56449	A519-05A
255	A519-05	.00178	.26303	.00379	.00165	2.1974	.01624	.02094	.00055	.53803	.00025	A519-05
256	A519-05J	.00051	.05157	.00068	.00055	.43324	.00333	.00417	-.00006	.17973	.00007	A519-05J
257	A519-05M	.58661	5.6407	.49968	.00182	51.548	.53117	.53442	.46250	51.279	.56702	A519-05M
258	A519-05S	.59482	5.6793	.50402	.00184	51.190	.53456	.52482	.46548	51.007	.57590	A519-05S
259	A519-04	.00187	.67631	.00459	.00138	1.9992	.01521	.02015	.00037	.53814	-.00018	A519-04
260	Blank	.00034	-.00414	.00006	.00026	.00879	.00016	.00009	-.00013	.09872	.00017	Blank
261	CCV23	.29658*	2.8359*	.26501*	.05697*	6.3399*	.27876*	.26529*	.27325*	6.4113*	.11627*	CCV23
262	CCB23	.00022	-.00404	-.00019	.00001	.00195	.00003	.00005	-.00033	.09581	.00002	CCB23

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00011	.00078	-.00006	-.00001	.00012	.00001	-.00010	.00132	Blank
2	S20									S20
3	S21									S21
4	S22							.13656		S22
5	S23							1.3508		S23
6	S24		1.0613							S24
7	S25		6.1580							S25
8	S26									S26
9	S27									S27
10	S28				.00574					S28
11	S29				.05387					S29
12	S30	.04133		.13293		.02591	.01610		.57164	S30
13	S31	.20498		.65451		.12567	.07944		5.5140	S31
14	ICV	.50803	62.639	.48948	2.3488	.48905	.49479	1.4607	2.6311	ICV
15	ICB	.00001	.02978	.00006	.00015	-.00035	.00032	.00006	-.00017	ICB
16	MRLA3103	.01039	1.0685	.01038	.01130	.00003	.01041	.01048	.02336	MRLA3103
17	MRLA3104	.01056	.52153	.01056	.01206*	.00941	.01002	.01074	.00956	MRLA3104
18	ICSA1	.00014	.06464	.02123*	.00061	.00265	.00196	.00152	.00192	ICSA1
19	ICSAB1	1.1505	84.068	.53127	.88363	.97865	1.0021	.51213	1.0684	ICSAB1
20	CCV1	.52076	62.224	.49296	2.4228	.49572	.49097	1.5212	2.6439	CCV1
21	CCB1	.00007	.05664	.00021	.00017	.00001	.00018	.00031	.00144	CCB1
22	IPA039WQ	-.00012	.02976	.00011	-.00029	-.00014	.00011	.00004	.00497	IPA039WQ
23	IPA039WX	.51734	52.687	.49405	.50592	.51290	.52019	.51171	.54816	IPA039WX
24	IPA039WY	.52672	52.198	.49925	.51414	.51485	.52341	.51881	.55820	IPA039WY
25	A135-02A	.53731	213.16	2.3165	.47000	.50467	.51207	.51323	.55833	A135-02A
26	A135-02W	-.00032	164.73	1.8835	-.00123	-.00036	.00803	.00006	.00663	A135-02W
27	A135-02J	-.00020	32.418	.37314	.00020	.00019	.00177	.00015	.00044	A135-02J
28	A135-03W	-.00021	170.54	1.7223	-.00104	-.00021	.03362	.00107	.00622	A135-03W
29	A135-04W	-.00018	169.42	1.7455	-.00202	.00051	.01787	.00039	.00586	A135-04W
30	A135-05W	-.00027	157.72	1.6488	-.00170	.00023	.00640	.00040	.00715	A135-05W
31	Blank	.00000	.12624	.00027	.00000	.00008	-.00001	.00007	.00403	Blank
32	CCV2	.50172	61.456	.48261	2.3056	.51169	.48038	1.4284	2.6248	CCV2
33	CCB2	-.00012	.07605	.00016	-.00004	.00000	.00022	.00030	.00133	CCB2
34	A169-03A	.49630	53.947	.52321	.48124	.51193	1.0945	.77029	.74184	A169-03A
35	A169-03I	-.00091	1.6677	.04623	.00008	.00960	.59944	.26969	.17535	A169-03I
36	A169-03J	-.00034	.34150	.00933	.00028	.00160	.12038	.05436	.03548	A169-03J
37	A169-03G	.09925	12.233	.14597	.10024	.11163	.81230	.55463	.29972	A169-03G
38	A169-03H	.09707	12.004	.14102	.09712	.11025	.79199	.57022	.27386	A169-03H
39	A169-01W	-.00039	6.4830	.22662	-.00031	.04111	2.5509	.22645	.20941	A169-01W
40	A169-02W	-.00047	7.3469	.37964	-.00166	.04417	1.6993	.15842	.33770	A169-02W
41	A135-06W	-.00040	399.55	3.5037	-.00197	-.00012	.00445	.00041	.00646	A135-06W
42	A135-07W	-.00036	159.90	1.5938	-.00140	.00031	.05257	.00200	.00464	A135-07W
43	Blank	-.00006	.12113	.00027	.00022	.00009	-.00012	.00004	.00108	Blank
44	CCV3	.50026	61.699	.48551	2.2838	.51572	.48175	1.4232	2.6208	CCV3
45	CCB3	.00002	.06845*	.00020	.00089	.00026	.00008	.00017	.00100	CCB3
46	IPA050SB	-.00019	.05405	.00011	-.00070	.02091	.00026	.00007	.00459	IPA050SB
47	IPA050SL	.49200	51.941	.48509	.47082	.53450	.50701	.49573	.56155	IPA050SL
48	IPA050SC	.48944	51.939	.48306	.46875	.53469	.50383	.49159	.54688	IPA050SC
49	A545-02A	.52799	59.088	.51765	.45755	.54713	.63388	.54677	.96294	A545-02A
50	A545-02T	.00353	5.2649	.02995	-.00287	.03507	.12806	.03979	.39760	A545-02T
51	A545-02J	.00053	1.0094	.00600	.00133	.00679	.02503	.00787	.07430	A545-02J
52	A545-02M	.10712	16.308	.12535	.07869	.14094	.21878	.13717	.55011	A545-02M
53	A545-02S	.10726	21.777	.16021	.07802	.15049	.27720	.12345	.81945	A545-02S
54	A545-01T	.00436	.67646	.06209	-.00099	.13090	.03852	.01774	.27130	A545-01T

55	Blank	-.00016	.00188	.00007	.00002	.00009	-.00009	.00002	.00095	Blank
56	CCV4	.50142	61.426	.48446	2.2889	.51027	.48355	1.4308	2.6147	CCV4
57	CCB4	-.00003	.02703	.00014	.00065	.00004	.00015	.00020	.00108	CCB4
58	A545-03T	.00228	7.6579	.07421	.00026	.04585	.18305	.01436	.61447	A545-03T
59	A545-04T	.00327	8.0515	.04237	-.00164	.06511	.44451	.02108	3.3189	A545-04T
60	A545-05T	.00277	2.1980	.22330	.00056	.03994	.54857	.03286	.52081	A545-05T
61	A546-01T	.00279	2.8739	.01966	-.00403	.02833	.05291	.01747	1.9636	A546-01T
62	A546-02T	.00495	2.4964	.04507	-.00140	.18139	.26827	.01419	37.488*	A546-02T
63	A546-03T	.00284	1.7286	.00571	.00094	.02150	.55701	.00676	.09728	A546-03T
64	A546-04	.04254	6.6900	3.5104	.00505	.13290	6.5365	.12376	86.269*	A546-04
65	A546-05	.04250	26.858	.05844	-.00218	.06525	1.9803	.03227	6.2119	A546-05
66	Blank	-.00003	-.00678	.00002	-.00005	-.00035	.00030	.00009	.00191	Blank
67	CCV5	.49725	60.926	.47817	2.2873	.51710	.48223	1.4175	2.6219	CCV5
68	CCB5	.00001	.02342	.00019	.00026	-.00008	.00012	.00029	.00131	CCB5
69	IPA049SB	-.00020	.01983	.00001	-.00076	.03239	.00004	.00006	.00355	IPA049SB
70	IPA049SL	.47293	50.414	.47681	.44952	.53484	.49984	.49175	.54934	IPA049SL
71	IPA049SC	.49745	51.953	.48692	.47164	.54472	.50925	.50248	.56512	IPA049SC
72	A219-03A	.50821	53.541	.58321	.44801	.53662	1.6227	.81680	10.060	A219-03A
73	A219-03	-.00027	.56936	.10409	-.00197	.04110	1.1590	.32913	9.8836	A219-03
74	A219-03J	-.00015	.10862	.02055	.00012	.00814	.22884	.06521	1.9402	A219-03J
75	A219-03M	.50761	53.100	.63446	.42370	.53846	2.0659	.87916	9.8229	A219-03M
76	A219-03S	.50424	52.493	.62535	.42125	.52795	1.9533	.86186	9.7843	A219-03S
77	A219-06	-.00018	.56642	.09424	-.00108	.03864	.97381	.36125	9.3927	A219-06
78	Blank	.00001	.00297	.00001	.00022	-.00012	.00027	.00009	.00132	Blank
79	CCV6	.50359	61.083	.48148	2.3007	.51377	.48190	1.4326	2.6208	CCV6
80	CCB6	-.00003	.02810	.00015	.00017	.00040	.00010	.00033	.00129	CCB6
81	IPA048SQ	-.00015	.01980	.00006	-.00110	.03266	.00032	-.00004	.00156	IPA048SQ
82	IPA048SX	.49615	52.358	.48866	.47761	.55501	.51718	.50772	.56450	IPA048SX
83	IPA048SY	.49656	52.258	.48496	.47395	.55133	.51507	.50858	.56151	IPA048SY
84	A187-01A	.79517	392.79	1.8666	.60555	1.4295	.88886	.83308	18.999	A187-01A
85	A187-01W	.03781	355.51	1.3104	-.01767*	.73608	.30917	.11908	20.173	A187-01W
86	A187-01J	.00475	48.894	.17923	-.00261	.10323	.07403	.01585	2.7096	A187-01J
87	A219-10	-.00039	.86985	.13030	-.00193	.04014	1.1537	.35288	3.1238	A219-10
88	A519-03	.00044	.29202	.00204	-.00040	.04090	.00188	.00053	1.0348	A519-03
89	A961-01	.00173	5.0660	2.3967	-.00060	.08910	38.983*	1.5322	.98516	A961-01
90	Blank	-.00012	.00139	.00027	-.00009	-.00005	.01072	.00021	.00072	Blank
91	CCV7	.50310	60.707	.47926	2.3338	.51314	.48657	1.4402	2.6273	CCV7
92	CCB7	.00008	.02674	.00014	.00050	.00008	.00054	.00021	.00129	CCB7
93	A537-28	.00722	17.537	3.7016	-.00325	.10426	11.685	.27012	108.42*	A537-28
94	A537-29	.00951	6.2634	2.9998	-.00268	.10191	15.665	.11650	97.961*	A537-29
95	A537-30	.00690	4.0612	1.8390	-.00126	.08604	10.090	.05595	74.251*	A537-30
96	A537-31	.00621	3.6336	1.2958	-.00242	.07286	11.851	.05046	43.196*	A537-31
97	A537-32	.00620	19.111	1.8408	-.00247	.11152	17.340	.08170	111.85*	A537-32
98	A537-33	.00771	21.463	2.5500	-.00238	.10724	18.722	.08966	111.60*	A537-33
99	A537-34	.00632	4.2228	1.9968	-.00228	.07630	10.905	.04572	60.223*	A537-34
100	A537-35	.02165	5.0549	3.7132	-.00505*	.09261	11.854	.13638	43.398*	A537-35
101	A537-36	.01039	2.7960	1.5451	-.00308	.05788	4.6171	.35397	184.31*	A537-36
102	Blank	.00000	.00647	.00035	.00010	.00031	.00172	.00013	.01893	Blank
103	CCV8	.51038	61.590	.48791	2.3333	.51767	.48911	1.4576	2.6508	CCV8
104	CCB8	.00000	.02792	.00016	.00014	.00004	.00030	.00025	.00745*	CCB8
105	A537-37	.00147	5.2970	.32790	-.00064	.10267	8.8594	.16764	36.352*	A537-37
106	A522-07	.06734	6.0346	.17629	-.00317	1.6598	7.4775	.03077	229.63*	A522-07
107	A522-08	.00131	3.4820	.01560	.00014	.02592	1.3186	.01680	7.9641	A522-08
108	A538-10	.00288	41.837	.83633	-.00556*	.08148	3.3211	.03312	174.89*	A538-10
109	A538-11	.02881	16.781	.29173	.00054	.31508	4.4070	.05696	192.78*	A538-11
110	A538-12	.03067	17.578	1.1548	.00359	1.0018	7.2124	.45734	214.87*	A538-12
111	A538-13	.04348	5.6659	.68003	.00530	.27600	8.3378	.07191	208.12*	A538-13

112	A538-14	.04647	22.942	.57307	.00079	1.2544	5.2834	.09000	220.97*	A538-14
113	Blank	.00004	.00801	.00025	-.00020	.00001	.00288	.00013	.04864	Blank
114	CCV9	.51014	61.514	.48933	2.3263	.51587	.48996	1.4569	2.6355	CCV9
115	CCB9	-.00011	.01310	.00011	.00038	.00017	.00019	.00018	.01179*	CCB9
116	A561-01	.00103	15.284	.83778	-.00330	.10073	7.5606	.06643	125.56*	A561-01
117	A561-02	-.00118	17.160	16.520	-.00342	.03771	7.4262	.27258	6.1206	A561-02
118	A561-03	.00055	9.5205	.28041	-.00364	.09428	6.9699	.04342	97.796*	A561-03
119	A561-04	.00011	19.108	.70253	-.00232	.05903	7.7834	.06812	9.8399	A561-04
120	Blank	.00003	.01155	.00022	.00037	.00051	.00223	.00018	.00944	Blank
121	Blank	-.00009	.00016	.00005	-.00011	.00007	.00033	.00019	.00548	Blank
122	Blank	.00008	.01160	.00017	.00044	.00014	.00018	.00012	.00617	Blank
123	CCV10	.51618	61.971	.49182	2.3412	.51228	.48910	1.4679	2.6232	CCV10
124	CCB10	-.00004	.02505	.00023	.00005	.00004	.00028	.00026	.00621*	CCB10
125	A545-02A	.51775	54.696	.49691	.47510	.51175	.56793	.52911	.74354	A545-02A
126	A545-02I	.00179	2.5798	.01498	-.00111	.01689	.07015	.02087	.19578	A545-02I
127	A545-02J	.00029	.49511	.00296	.00074	.00326	.01345	.00417	.03877	A545-02J
128	A545-02G	.05209	7.7615	.06100	.04196	.06763	.11894	.06856	.26678	A545-02G
129	A545-02H	.05252	10.435	.07886	.04207	.07298	.14972	.06218	.39488	A545-02H
130	A545-01I	.00213	.32277	.03059	-.00047	.06275	.02765	.00906	.13304	A545-01I
131	A545-03I	.00093	3.7686	.03728	.00008	.02190	.10000	.00778	.29933	A545-03I
132	A545-04I	.00172	3.9126	.02116	-.00077	.03088	.24433	.01088	1.6113	A545-04I
133	A545-05I	.00131	1.0667	.11149	-.00001	.01935	.28141	.01701	.25347	A545-05I
134	Blank	-.00017	-.00286	.00007	-.00013	-.00006	.00006	.00000	.00180	Blank
135	CCV11	.52007	61.763	.49150	2.3611	.50588	.48795	1.4881	2.6131	CCV11
136	CCB11	.00013	.02213	.00022	-.00001	.00007	.00008	.00027	.01031*	CCB11
137	A546-01I	.00065	.69989	.00492	.00092	.00715	.01278	.00493	.45914	A546-01I
138	A546-02I	.00132	.61880	.01147	.00134	.04434	.06930	.00409	9.9187	A546-02I
139	A546-03I	.00260	1.7250	.00575	.00020	.02067	.56388	.00712	.09859	A546-03I
140	A546-04I	.00175	.29537	.17270	.00035	.00680	.32904	.00644	5.2876	A546-04I
141	A546-05W	.04186	26.985	.06018	-.00261	.06365	2.0134	.03381	6.1321	A546-05W
142	Blank	.00008	.01232	.00025	.00008	-.00023	.00075	.00039	.01122	Blank
143	CCV12	.52183	61.914	.49557	2.3857	.50489	.49263	1.4986	2.6176	CCV12
144	CCB12	-.00004	.01355	.00006	-.00003	.00005	.00032	.00008	.00148	CCB12
145	IPA057SB	-.00026	.02041	.00006	-.00114	.03599	.00026	.00001	.01452*	IPA057SB
146	IPA057SL	.51348	53.023	.50370	.48350	.53875	.52051	.53321	.57023	IPA057SL
147	IPA057SC	.51529	53.352	.50150	.48522	.54175	.51983	.53363	.57061	IPA057SC
148	A251-04A	.50233	52.379	.55038	.47816	.52567	1.5418	.60246	.61897	A251-04A
149	A251-04R	-.00023	.48169	.07103	-.00154	.03925	1.0722	.07934	.06437	A251-04R
150	A251-04J	-.00028	.09267	.01402	-.00089	.00747	.21092	.01563	.01153	A251-04J
151	A251-04M	.51868	54.046	.59167	.47317	.53657	1.8921	.61033	.61809	A251-04M
152	A251-04S	.52607	54.731	.59015	.48435	.54644	1.7969	.61670	.62992	A251-04S
153	A251-06R	-.00019	.59034	.05629	-.00169	.03888	1.5122	.10829	.07488	A251-06R
154	Blank	.00010	.01235	.00019	.00021	.00027	.00071	.00022	.00695	Blank
155	CCV13	.52170	61.732	.49402	2.4151	.50427	.49280	1.5111	2.6273	CCV13
156	CCB13	.00003	.02303	.00009	-.00039	.00009	.00023	.00009	.00161	CCB13
157	IPA051WB	-.00013	.00791	.00001	.00006	-.00033	.00006	.00000	.00206	IPA051WB
158	IPA051WL	.53252	52.148	.49741	.52295	.49877	.51817	.52660	.54171	IPA051WL
159	IPA051WC	.53852	52.232	.50302	.52438	.50333	.51941	.53245	.55142	IPA051WC
160	A199-03A	.55160	319.80	.63138	.49336	.49726	.51237	.54187	.57266	A199-03A
161	A199-03	-.00020	273.69	.14663	-.00029	.00024	.00066	.00858	.00606	A199-03
162	A199-03J	-.00006	55.821	.02938	.00014	-.00019	.00036	.00158	.00165	A199-03J
163	A199-03M	.56486	328.66	.64677	.48666	.49903	.51643	.53946	.56046	A199-03M
164	A199-03S	.55440	322.99	.63791	.48011	.49811	.51236	.53120	.55173	A199-03S
165	A199-05	-.00004	928.27*	.92276	.00459	.00001	.00835	.00372	-.00443	A199-05
166	Blank	.00010*	.38114	.00031	.00019	-.00009	-.00008	.00014	.00331	Blank
167	CCV14	.52826	62.314	.49811	2.4271	.50436	.49350	1.5249	2.6359	CCV14
168	CCB14	.00001	.11738*	.00014	.00055	-.00004	-.00007	.00016	.00368	CCB14

169	A199-03	-.00008	274.01	.14571	-.00037	.00063	.00796	.00802	.18298	A199-03
170	A199-03M	.56808	323.26	.65175	.49592	.50768	.53481	.54337	.73685	A199-03M
171	A199-03S	.57326	324.59	.65721	.49423	.50956	.53442	.54817	.73927	A199-03S
172	A199-05	.00006	920.62*	.86688	.00403	-.00062	.00537	.00297	-.00872*	A199-05
173	A203-01	.00032	800.98*	2.7402	-.00568*	.00434	.01699	.00622	.01335	A203-01
174	A203-01	.00008	795.30*	2.6822	-.00624*	.00364	.00164	.00326	.00816	A203-01
175	A198-01	-.00016	734.09*	.99199	-.00129	.00012	.00160	.02208	.04186	A198-01
176	A211-06	-.00008	843.99*	.82080	-.00282	.00189	.01624	.00247	.11086	A211-06
177	A211-07	.00029	1049.8*	.27717	.01119	-.00128	.01481	.00203	-.01933*	A211-07
178	Blank	.00016	.75105	.00018	.00038	.00002	.00004	.00009	.00282	Blank
179	CCV15	.53205	62.959	.50007	2.4293	.49777	.49568	1.5460	2.6440	CCV15
180	CCB15	-.00003	.38870*	.00016	.00046	.00043	-.00027	.00026	.00324	CCB15
181	A211-06	-.00022	887.70*	.93694	-.00250	.00095	.00113	.00028	.00834	A211-06
182	A211-07	.00034	989.18*	.23739	.01001	-.00145	.01002	.00120	-.02703*	A211-07
183	A519-01T	.00007	1064.3*	.03508	-.01223*	.00686	-.00003	.00011	8.3005	A519-01T
184	A181-03	-.00007	19.892	.17923	-.00102	.00062	.00158	.00010	.00211	A181-03
185	A181-03M	.55753	73.697	.69038	.51010	.49844	.52391	.54229	.54868	A181-03M
186	A181-03S	.56909	74.508	.70319	.51673	.50396	.53310	.55399	.55328	A181-03S
187	A181-04	-.00005	21.971	.11472	-.00023	.00131	.00107	.00103	.00281	A181-04
188	A181-03	-.00030	19.050	.17494	-.00032	.00037	.00135	.00007	.00483	A181-03
189	A181-03M	.54912	71.686	.66855	.49836	.49002	.51355	.53530	.54229	A181-03M
190	Blank	-.00001	.28980	.00023	.00012	-.00006	.00020	.00016	.00205	Blank
191	CCV16	.53404	62.404	.50129	2.4509	.49546	.49530	1.5549	2.6307	CCV16
192	CCB16	-.00002	.24785*	.00014	.00057	-.00033	.00009	.00034	.00291	CCB16
193	A181-03S	.56706	73.842	.69466	.51200	.50025	.53067	.55332	.56240	A181-03S
194	A181-04	-.00005	20.586	.10255	-.00055	-.00033	-.00012	.00086	.00907	A181-04
195	Blank	-.00003	.19879	.00018	-.00030	-.00012	-.00006	.00022	.00198	Blank
196	ICSA2	.00017	.35699	.01967	.00016	.00270	.00207	.00150	.00231	ICSA2
197	ICSA82	1.1512	81.275	.52463	.86610	.95458	.98625	.51055	1.0412	ICSA82
198	CCV17	.53882	62.367	.50537	2.4472	.49355	.49528	1.5628	2.6335	CCV17
199	CCB17	.00002	.23389*	.00017	.00036	.00031	-.00015	.00025	.00280	CCB17
200	IPA056WB	-.00014	.17611	.00001	-.00022	.00011	-.00015	.00010	.00019	IPA056WB
201	IPA056WL	.55760	53.367	.51026	.54410	.48880	.52488	.55981	.55443	IPA056WL
202	IPA056WC	.53764	52.869	.50820	.52443	.48899	.52131	.53888	.53352	IPA056WC
203	Blank	.00020	.14918	.00030	.00009	-.00015	.00012	.00026	.00491	Blank
204	CCV18	.53640	62.641	.50410	2.4431	.49068	.49609	1.5659	2.6217	CCV18
205	CCB18	-.00002	.13191*	.00010	.00023	-.00028	.00019	.00013	-.00010	CCB18
206	WTA005SB	.00000	2239.7*	.00125	-.02600	.01351	.00035	.00033	.00199	WTA005SB
207	A169-03A	.66302	2084.7*	.77677	.44205	.48581	.56086	.82717	.67990	A169-03A
208	A169-03	-.00242	2054.9*	.29105	-.02922*	.01326	.04845	.27375	.07351	A169-03
209	A169-03J	-.00059	475.30	.05745	-.00508*	.00228	.00953	.05397	.01439	A169-03J
210	A169-03M	.69418	2092.2*	.80374	.44580	.49880	.56812	.83704	.68204	A169-03M
211	A169-03S	.68566	1967.4*	.78673	.44667	.50099	.56723	.81871	.67571	A169-03S
212	A169-01	-.00002	1856.7*	.20743	-.02208*	.01235	.01290	.03869	.01660	A169-01
213	A169-02	-.00034	1893.8*	.24064	-.02441*	.01348	.10011	.01789	.05516	A169-02
214	A187-01	.00381	8712.9*	4.8486	-.12733*	.15230	.09309	.12521	63.772*	A187-01
215	Blank	.00009	1.7777	.00031	-.00004	.00013	.00011	.00022	.00550	Blank
216	CCV19	.53720	62.466	.50272	2.4839	.49032	.49534	1.5795	2.6516	CCV19
217	CCB19	-.00001	.53540*	.00008	-.00026	-.00034	-.00003	.00008	-.00019	CCB19
218	WTA005SQ	-.00014	989.43*	.00055	-.00977	.00523	.00058	.00018	.00165	WTA005SQ
219	A169-03A	.58618	527.27	.55629	.50925	.49041	.53014	.62903	.61515	A169-03A
220	A169-03T	-.00055	479.56	.05756	-.00519*	.00249	.00979	.05424	.01484	A169-03T
221	A169-03J	-.00009	99.160	.01139	-.00086	.00039	.00162	.01068	.00277	A169-03J
222	A169-03G	.24118	943.33*	.31499	.19153	.19723	.22656	.33637	.26779	A169-03G
223	A169-03H	.23927	891.54*	.30800	.19039	.19889	.22399	.32709	.26322	A169-03H
224	A167-01T	-.00017	441.15	.04113	-.00392	.00170	.00284	.00776	.00337	A167-01T
225	A167-02T	-.00010	449.89	.04754	-.00420	.00181	.01991	.00359	.01051	A167-02T

226	A187-01T	.00047	1856.3*	.84518	-.02582*	.02661	.02237	.02124	12.146	A187-01T
227	Blank	.00017	.67747	.00027	.00018	.00003	.00011	.00010	.00500	Blank
228	CCV20	.54322	62.918	.50530	2.5029	.48372	.49583	1.6013	2.6480	CCV20
229	CCB20	-.00009	.43671*	.00008	-.00030	-.00007	-.00008	.00019	-.00025	CCB20
230	TXA012SB	-.00006	310.45*	.00132	-.00284	.00078	-.00010	-.00010	.00092	TXA012SB
231	A519-06A	.56506	368.66	.65068	.50629	.47287	.51342	.55811	1.7673	A519-06A
232	A519-06	.00002	321.48	.16160	-.00218	.00088	.00022	.00007	1.2539	A519-06
233	A519-06J	-.00012	66.104	.03190	-.00059	.00028	.00005	.00003	.23818	A519-06J
234	A519-06M	.57392	350.79	.65721	.50273	.48478	.52357	.55830	1.7084	A519-06M
235	A519-06S	.58222	371.22	.66914	.50687	.48223	.52198	.56525	1.8092	A519-06S
236	A519-02	-.00004	311.19	.04326	-.00219	.00100	.00033	.00009	.54657	A519-02
237	A519-07	.00002	345.60	.04055	-.00220	.00110	.00012	.00003	.87240	A519-07
238	A564-01	-.00014	371.35	.62753	-.00248	.00068	.00190	.00376	.00590	A564-01
239	Blank	-.00002	.52375	.00026	.00008	-.00041	-.00008	.00029	.00483	Blank
240	CCV21	.54537	63.191	.51054	2.4828	.48326	.49645	1.5977	2.6283	CCV21
241	CCB21	-.00006	.35002*	.00008	-.00022	.00017	.00032	.00030	-.00028	CCB21
242	A169-01	.00000	298.59	.05345	-.00250	.00086	.00008	.00039	.33783	A169-01
243	A169-02	-.00017	309.04	.08709	-.00270	.00100	.00019	.00115	.35434	A169-02
244	A169-03	-.00031	319.67	.06517	-.00257	.00075	.00029	.00009	.34476	A169-03
245	A519-06A	.54768	117.52	.52867	.53793	.47552	.51515	.56215	.79490	A519-06A
246	A519-06T	-.00009	66.518	.03228	-.00081	-.00003	.00021	.00009	.23848	A519-06T
247	A519-06J	.00004	13.561	.00663	-.00025	.00025	.00014	.00023	.04642	A519-06J
248	A519-06G	.10744	71.268	.13139	.11016	.09443	.10368	.11134	.33146	A519-06G
249	A519-06H	.10845	75.960	.13412	.11073	.09401	.10355	.11272	.34841	A519-06H
250	Blank	.00003	.31902	.00023	-.00035	.00000	-.00004	.00015	.00477	Blank
251	CCV22	.05851*	7.1320*	.05716*	.30698*	.05246*	.05525*	.18118*	.28307*	CCV22
252	CCB22	-.00006	.26200*	.00000	-.00010	.00007	.00001	.00000	-.00157	CCB22
253	TXA013WB	-.00008	.25842	.00009	-.00023	.00017	-.00033	-.00001	.00266	TXA013WB
254	A519-05A	.54172	66.829	.52239	.53464	.47087	.51546	.55839	.78340	A519-05A
255	A519-05	-.00008	13.570	.02090	-.00047	.00017	.00018	.00084	.23633	A519-05
256	A519-05J	.00006	2.8617	.00412	-.00061	.00012	-.00027	.00020	.04641	A519-05J
257	A519-05M	.55785	67.504	.54554	.53738	.48459	.53063	.56429	.78578	A519-05M
258	A519-05S	.56658	67.577	.53872	.54190	.47445	.52181	.57061	.79673	A519-05S
259	A519-04	-.00003	12.449	.01975	.00000	.00011	.00038	.00095	.21184	A519-04
260	Blank	.00000	.23530	.00004	-.00012	-.00013	-.00024	.00000	-.00131	Blank
261	CCV23	.05795*	7.0350*	.05664*	.30220*	.05248*	.05552*	.17857*	.28041*	CCV23
262	CCB23	-.00011	.22370*	.00003	-.00002	-.00042	.00013	-.00012	-.00133	CCB23
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8A030 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
DIGESTOR D
SDG 11A219 DRIED & SIEVED

Book #: EIP-098
Batch: 1PA0493
Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

11/28/14 Start	Temp	11/28/14 End	Temp
1530	90 °C	~~9~~ 1737 LE 11/28/14	90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-1302-11	0.5
LCS-2	12	0.5
LCS-3	13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	282	10
H_2O_2	209	10
HNO3(1:1)	SM513-02-136	40

Digestate Location	ICP
Extract Location	
☑ Reagent Water ID:	SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask	
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask	
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask	
☑ HCl dispenser checked @ 10.0 ml with Class A volumetric flask	
☑ Thermometer ID:	101983555

Prepared By: LE/MJM LE 11/28/14
Standard Added By: LE/NT Witnessed By: ~~LE~~/ NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

FileID: IPA049S

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPA049S01	IPA049SB	1	g	1/28/11 11:49	100	1	100	1	
11IPA049S02	IPA049SL	1	g	1/28/11 11:49	100	1	100	1	
11IPA049S03	IPA049SC	1	g	1/28/11 11:49	100	1	100	1	
11IPA049S04	A522-07	1.051	g	1/28/11 11:52	100	1	100	0.951	
11IPA049S05	A522-08	1.046	g	1/28/11 11:54	100	1	100	0.956	
11IPA049S06	A519-03	1.02	g	1/28/11 11:56	100	1	100	0.98	
11IPA049S07	A538-10	1.004	g	1/28/11 11:58	100	1	100	0.996	
11IPA049S08	A538-11	1.02	g	1/28/11 12:00	100	1	100	0.98	
11IPA049S09	A538-12	1.074	g	1/28/11 12:02	100	1	100	0.931	
11IPA049S10	A538-13	1.024	g	1/28/11 12:09	100	1	100	0.977	
11IPA049S11	A538-14	1.059	g	1/28/11 12:12	100	1	100	0.944	
11IPA049S12	A561-01	1.086	g	1/28/11 12:15	100	1	100	0.921	
11IPA049S13	A561-02	1.015	g	1/28/11 12:17	100	1	100	0.985	
11IPA049S14	A561-03	1.009	g	1/28/11 12:18	100	1	100	0.991	
11IPA049S15	A561-04	1.07	g	1/28/11 12:20	100	1	100	0.935	
11IPA049S16	A219-03	1.061	g	1/28/11 12:25	100	1	100	0.943	✓
11IPA049S17	A219-03M	1.064	g	1/28/11 12:26	100	1	100	0.94	✓
11IPA049S18	A219-03S	1.057	g	1/28/11 12:27	100	1	100	0.946	✓
11IPA049S19	A219-06	1.049	g	1/28/11 12:40	100	1	100	0.953	✓
11IPA049S20	A219-10	1.054	g	1/28/11 12:42	100	1	100	0.949	✓
11IPA049S21	A961-01	1.002	g	1/28/11 12:44	100	1	100	0.998	

LK 1/28/11

Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 1/28/11 15:30 Prepared By: LK/MJM

☑ Digestion Ended @ 1/28/11 17:37 Checked By: TH

Comments: Date 1/28/2011

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11B208**

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GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B METHOD 3050B/6010B (LEAD)	7000 – 7072 7073 – 7139
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-01-2011
EMAX Batch No.: 11B208

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 02/18/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB231-08-01	B208-01	02/14/11	SOIL	CADMIUM
CB231-08-02	B208-02	02/14/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-09-01	B208-03	02/14/11	SOIL	CADMIUM
CB231-09-02	B208-04	02/14/11	SOIL	CADMIUM
CP091-13-01	B208-05	02/14/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-13-02	B208-06	02/14/11	SOIL	CADMIUM
CP093-S5-01-01	B208-07	02/15/11	SOIL	CADMIUM
CP093-S5-01-02	B208-08	02/15/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S5-02-01	B208-09	02/15/11	SOIL	CADMIUM
CP093-S5-02-02	B208-10	02/15/11	SOIL	CADMIUM
CP093-S5-02-02FD	B208-11	02/15/11	SOIL	CADMIUM
CP093-S5-03-01	B208-12	02/15/11	SOIL	CADMIUM
CP093-S5-03-02	B208-13	02/15/11	SOIL	LEAD

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

CH_1002

11B208

Chain of Custody Record

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client CH2M HILL, Inc.	***Project Manager*** John Ynfante		***Date*** 17-Feb-11	***Chain of Custody Number*** 1 of 1
Address 14701 St. Mary's Lane, Suite 300	***Telephone Number*** (281) 721-8546	***Fax Number*** (281) 721-8401		
City/State/Zip Houston, TX 77079	***Site Contact:*** John Ynfante	***PO Number:*** Contact John Ynfante	***EMAX Control Number***	
Project Name Tar Creek OU4	***Carrier/Waybill Number:*** Fed Ex 796776683219	***CH2M HILL Project Number:*** 413831.CV.01		
Samplers: Various CH2M HILL personnel				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: admium Only					Comments
1	CB231-08-01	February 14, 2011	11:50	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
2	CB231-08-02	February 14, 2011	12:00	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X					Sieve Lead Sample
3	CB231-09-01	February 14, 2011	12:50	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
4	CB231-09-02	February 14, 2011	13:00	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
5	CP091-13-01	February 14, 2011	15:35	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X					Sieve Lead Sample
6	CP091-13-02	February 14, 2011	15:45	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
7	CP093-S5-01-01	February 15, 2011	10:10	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
8	CP093-S5-01-02	February 15, 2011	10:45	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X					Sieve Lead Sample
9	CP093-S5-02-01	February 15, 2011	11:20	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
10	CP093-S5-02-02	February 15, 2011	11:25	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
11	CP093-S5-02-02FD	February 15, 2011	11:30	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
12	CP093-S5-03-01	February 15, 2011	11:40	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil			X					
13	CP093-S5-03-02	February 15, 2011	11:45	XRF Cup & 8oz	Plastic & Glass	1	ICE	Soil	X	X	X					Sieve Lead Sample

Turnaround Time 7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Richard J Trevino	***Date:*** February 17, 2011	***Time:*** 17:00	***1. Received By:*** Fed Ex	***Date:*** 2/18/11	***Time:*** 0930
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***	
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:***	

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

T=2.8°C

1002

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11 B208
☐ EMAX Courier		Recepient I PATEL
☐ Client Delivery		Date 2-18-11
☑ Third Party Fedex	7967 7668 3219	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ PAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ plastic bag
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 1 2.8 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: ***A - S/N 101541371*** ***B - S/N 101541382***

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 2-18-11

SRF [signature] Date 2/18/11

PM LP for Y/e Date 2/22/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: (281) 721-8538
Richard Trevino
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11101012220225

Ship Date: 17FEB11
ActWgt: 0.5 LB
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889

BILL SENDER

Ref # 413631.CV.01/AAB00101711
Invoice #
PO #
Dept #

11B208
2/18/11
0930

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

FRI - 18 FEB A1
PRIORITY OVERNIGHT

TRK# 0201 7967 7668 3219

90501
CA-US
LAX

A7 AVXA

50DG1/82C2/7EFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

From: (281) 721-8538
Richard Trevino
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11101012220225

Ship Date: 17FEB11
ActWgt: 0.5 LB
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Ref # 413831.CV.01/AAB00101711
Invoice #
PO #
Dept #

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

FRI - 18 FEB A1
PRIORITY OVERNIGHT

TRK# 0201 7967 7668 3219

A7 AVXA

90501
CA-US
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3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11B208

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11B208

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of thirteen (13) soil samples were received on 02/18/11 for Metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPB042SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for B208-01M/S were within project QC limits.
In addition, serial dilution was analyzed for matrix interference evaluation.
Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Sample B208-09 was reported at 3.94 dilution due to high concentration of interfering element Iron.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11B208
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPB042SB	1	NA	02/23/1118:22	02/22/1113:40	ID8B025021	ID8B025019	IPB042S	Method Blank
LCS1S	IPB042SL	1	NA	02/23/1118:25	02/22/1113:40	ID8B025022	ID8B025019	IPB042S	Lab Control Sample (LCS)
LCD1S	IPB042SC	1	NA	02/23/1118:27	02/22/1113:40	ID8B025023	ID8B025019	IPB042S	LCS Duplicate
CB231-08-01AS	B208-01A	0.990	22.6	02/23/1118:30	02/22/1113:40	ID8B025024	ID8B025019	IPB042S	Analytical Spike Sample
CB231-08-01	B208-01	0.990	22.6	02/23/1118:33	02/22/1113:40	ID8B025025	ID8B025019	IPB042S	Field Sample
CB231-08-01DL	B208-01J	4.95	22.6	02/23/1118:35	02/22/1113:40	ID8B025026	ID8B025019	IPB042S	Diluted Sample
CB231-08-01MS	B208-01M	0.769	22.6	02/23/1118:38	02/22/1113:40	ID8B025027	ID8B025019	IPB042S	Matrix Spike Sample (MS)
CB231-08-01MSD	B208-01S	0.719	22.6	02/23/1118:41	02/22/1113:40	ID8B025028	ID8B025019	IPB042S	MS Duplicate (MSD)
CB231-09-01	B208-03	0.800	20.1	02/23/1118:54	02/22/1113:40	ID8B025033	ID8B025031	IPB042S	Field Sample
CB231-09-02	B208-04	0.840	20.3	02/23/1118:57	02/22/1113:40	ID8B025034	ID8B025031	IPB042S	Field Sample
CP091-13-02	B208-06	0.725	25.6	02/23/1119:02	02/22/1113:40	ID8B025036	ID8B025031	IPB042S	Field Sample
CP093-S5-01-01	B208-07	0.699	20.1	02/23/1119:05	02/22/1113:40	ID8B025037	ID8B025031	IPB042S	Field Sample
CP093-S5-02-01	B208-09T	3.94	21.2	02/24/1115:44	02/22/1113:40	ID8B026037	ID8B026032	IPB042S	Diluted Sample
CP093-S5-02-02	B208-10	0.840	19.2	02/23/1119:14	02/22/1113:40	ID8B025040	ID8B025031	IPB042S	Field Sample
CP093-S5-02-02FD	B208-11	0.752	19.2	02/23/1119:16	02/22/1113:40	ID8B025041	ID8B025031	IPB042S	Field Sample
CP093-S5-03-01	B208-12	0.769	19.5	02/23/1119:28	02/22/1113:40	ID8B025045	ID8B025043	IPB042S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 11:50
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CB231-08-01	Date Analyzed:	02/23/11 18:33
Lab Samp ID:	B208-01	Dilution Factor:	0.990
Lab File ID:	ID8B025025	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	22.6
Calib. Ref.:	ID8B025019	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	14.6	1.28	0.256

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 12:50
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CB231-09-01	Date Analyzed:	02/23/11 18:54
Lab Samp ID:	B208-03	Dilution Factor:	0.800
Lab File ID:	ID8B025033	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	20.1
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	60.2	1.00	0.200

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 13:00
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CB231-09-02	Date Analyzed:	02/23/11 18:57
Lab Samp ID:	B208-04	Dilution Factor:	0.840
Lab File ID:	ID8B025034	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	20.3
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	19.4	1.05	0.211

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 15:45
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP091-13-02	Date Analyzed:	02/23/11 19:02
Lab Samp ID:	B208-06	Dilution Factor:	0.725
Lab File ID:	ID8B025036	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	25.6
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	4.03	0.974	0.195

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 10:10
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP093-S5-01-01	Date Analyzed:	02/23/11 19:05
Lab Samp ID:	B208-07	Dilution Factor:	0.699
Lab File ID:	ID8B025037	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	20.1
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.14	0.875	0.175

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 11:20
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP093-S5-02-01	Date Analyzed:	02/24/11 15:44
Lab Samp ID:	B208-09T	Dilution Factor:	3.94
Lab File ID:	ID8B026037	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	21.2
Calib. Ref.:	ID8B026032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.98J	5.00	1.00

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 11:25
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP093-S5-02-02	Date Analyzed:	02/23/11 19:14
Lab Samp ID:	B208-10	Dilution Factor:	0.840
Lab File ID:	ID8B025040	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	19.2
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.572J	1.04	0.208

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 11:30
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP093-S5-02-02FD	Date Analyzed:	02/23/11 19:16
Lab Samp ID:	B208-11	Dilution Factor:	0.752
Lab File ID:	ID8B025041	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	19.2
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.557J	0.931	0.186

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 11:40
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP093-S5-03-01	Date Analyzed:	02/23/11 19:28
Lab Samp ID:	B208-12	Dilution Factor:	0.769
Lab File ID:	ID8B025045	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	19.5
Calib. Ref.:	ID8B025043	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	8.64	0.955	0.191

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	02/22/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	MBLK1S	Date Analyzed:	02/23/11 18:22
Lab Samp ID:	IPB042SB	Dilution Factor:	1
Lab File ID:	ID8B025021	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	NA
Calib. Ref.:	ID8B025019	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPB042SB	IPB042SL	IPB042SC		
LAB FILE ID:	ID8B025021	ID8B025022	ID8B025023		
DATIME EXTRCTD:	02/22/1113:40	02/22/1113:40	02/22/1113:40	DATE COLLECTED:	NA
DATIME ANALYZD:	02/23/1118:22	02/23/1118:25	02/23/1118:27	DATE RECEIVED:	02/22/11
PREP. BATCH:	IPB042S	IPB042S	IPB042S		
CALIB. REF:	ID8B025019	ID8B025019	ID8B025019		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	50.4	101	50	50.7	101	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	22.6
DILTN FACTR:	0.990	0.769	0.719		
SAMPLE ID:	CB231-08-01				
CONTROL NO.:	B208-01	B208-01M	B208-01S		
LAB FILE ID:	ID8B025025	ID8B025027	ID8B025028		
DATIME EXTRCTD:	02/22/1113:40	02/22/1113:40	02/22/1113:40	DATE COLLECTED:	02/14/11 11:50
DATIME ANALYZD:	02/23/1118:33	02/23/1118:38	02/23/1118:41	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB042S	IPB042S	IPB042S		
CALIB. REF:	ID8B025019	ID8B025019	ID8B025019		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	14.6	49.7	64.8	101	46.4	64.1	106	5	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11B208
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	22.6
DILUTION FACTOR:	0.990	4.95		
SAMPLE ID:	CB231-08-01	CB231-08-01DL		
EMAX SAMP ID:	B208-01	B208-01J		
LAB FILE ID:	ID8B025025	ID8B025026		
DATE EXTRACTED:	02/22/1113:40	02/22/1113:40	DATE COLLECTED:	02/14/11 11:50
DATE ANALYZED:	02/23/1118:33	02/23/1118:35	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB042S	IPB042S		
CALIB. REF:	ID8B025019	ID8B025019		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	14.6	15.0	2	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	22.6
DILTN FACTR:	0.990	0.990		
SAMPLE ID:	CB231-08-01			
CONTROL NO.:	B208-01	B208-01A		
LAB FILE ID:	ID8B025025	ID8B025024		
DATIME EXTRCTD:	02/22/1113:40	02/22/1113:40	DATE COLLECTED:	02/14/11 11:50
DATIME ANALYZD:	02/23/1118:33	02/23/1118:30	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB042S	IPB042S		
CALIB. REF:	ID8B025019	ID8B025019		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	14.6	64	77.2	98	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11B208
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPB042SB	1	NA	02/23/1118:22	02/22/1113:40	ID8B025021	ID8B025019	IPB042S	Method Blank
LCS1S	IPB042SL	1	NA	02/23/1118:25	02/22/1113:40	ID8B025022	ID8B025019	IPB042S	Lab Control Sample (LCS)
LCD1S	IPB042SC	1	NA	02/23/1118:27	02/22/1113:40	ID8B025023	ID8B025019	IPB042S	LCS Duplicate
CB231-08-01	B208-01	0.990	22.6	02/23/1118:33	02/22/1113:40	ID8B025025	ID8B025019	IPB042S	Field Sample
CB231-08-01DL	B208-01J	4.95	22.6	02/23/1118:35	02/22/1113:40	ID8B025026	ID8B025019	IPB042S	Diluted Sample
CB231-08-02	B208-02	1.00	22.3	02/23/1118:43	02/22/1113:40	ID8B025029	ID8B025019	IPB042S	Field Sample
CP091-13-01	B208-05	0.840	28.4	02/23/1119:00	02/22/1113:40	ID8B025035	ID8B025031	IPB042S	Field Sample
CP093-S5-01-02	B208-08	0.787	18.0	02/23/1119:08	02/22/1113:40	ID8B025038	ID8B025031	IPB042S	Field Sample
CP093-S5-03-02	B208-13	0.719	18.9	02/23/1119:30	02/22/1113:40	ID8B025046	ID8B025043	IPB042S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 12:00
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CB231-08-02	Date Analyzed:	02/23/11 18:43
Lab Samp ID:	B208-02	Dilution Factor:	1.00
Lab File ID:	ID8B025029	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	22.3
Calib. Ref.:	ID8B025019	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	13.9	1.29	0.257
Zinc	2640	2.57	1.29

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 15:35
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP091-13-01	Date Analyzed:	02/23/11 19:00
Lab Samp ID:	B208-05	Dilution Factor:	0.840
Lab File ID:	ID8B025035	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	28.4
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	5.42	1.17	0.235
Zinc	861	2.35	1.17

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 10:45
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP093-S5-01-02	Date Analyzed:	02/23/11 19:08
Lab Samp ID:	B208-08	Dilution Factor:	0.787
Lab File ID:	ID8B025038	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	18.0
Calib. Ref.:	ID8B025031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.564J	0.960	0.192
Zinc	100	1.92	0.960

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 11:45
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	CP093-S5-03-02	Date Analyzed:	02/23/11 19:30
Lab Samp ID:	B208-13	Dilution Factor:	0.719
Lab File ID:	ID8B025046	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	18.9
Calib. Ref.:	ID8B025043	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.97	0.887	0.177
Zinc	492	1.77	0.887

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	02/22/11
SDG NO.	: 11B208	Date Extracted:	02/22/11 13:40
Sample ID:	MBLK1S	Date Analyzed:	02/23/11 18:22
Lab Samp ID:	IPB042SB	Dilution Factor:	1
Lab File ID:	ID8B025021	Matrix :	SOIL
Ext Btch ID:	IPB042S	% Moisture :	NA
Calib. Ref.:	ID8B025019	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPB042SB	IPB042SL	IPB042SC		
LAB FILE ID:	ID8B025021	ID8B025022	ID8B025023		
DATIME EXTRCTD:	02/22/1113:40	02/22/1113:40	02/22/1113:40	DATE COLLECTED:	NA
DATIME ANALYZD:	02/23/1118:22	02/23/1118:25	02/23/1118:27	DATE RECEIVED:	02/22/11
PREP. BATCH:	IPB042S	IPB042S	IPB042S		
CALIB. REF:	ID8B025019	ID8B025019	ID8B025019		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	50.4	101	50	50.7	101	1	80-120	20
Zinc	ND	50	57.3	115	50	57.5	115	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11B208
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	22.6
DILUTION FACTOR:	0.990	4.95		
SAMPLE ID:	CB231-08-01	CB231-08-01DL		
EMAX SAMP ID:	B208-01	B208-01J		
LAB FILE ID:	ID8B025025	ID8B025026		
DATE EXTRACTED:	02/22/1113:40	02/22/1113:40	DATE COLLECTED:	02/14/11 11:50
DATE ANALYZED:	02/23/1118:33	02/23/1118:35	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB042S	IPB042S		
CALIB. REF:	ID8B025019	ID8B025019		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	14.6	15.0	2	10
Zinc	2890	2840	2	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 2/23/11 17:25

End Date: 2/23/11 22:05

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

B208 09 Fe7 NDR (Fe interfers w/Cd)

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8B025

Analytical Sequence: S_11B6010(V23)

Method File: 11B6010(V23)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-4005	S30	SM1B14-0203
S1	NA	S31	0204
S2		ICV	2701
S3		CCV	3805
S4		ICSA	2202
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	↓
S8		~~CRI~~/MRL	SM1B14-1901
S9			
S10			
S11			
S12			
S16			
S17			
S18	↓		
S20	SM1B14-3102		
S21	0101		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Analyzed By: TH

Date: 2/23/11

SEQUENCE FILE : ID8B025

4-18	19-33	34-43	44-53	54-63	
LFID	LSID	TIME	DATE	DF	
ID8B025001	Blank	17:25	02/23/11	1.000	
ID8B025002	S20	17:28	02/23/11	1.000	
ID8B025003	S21	17:31	02/23/11	1.000	
ID8B025004	S22	17:34	02/23/11	1.000	
ID8B025005	S23	17:36	02/23/11	1.000	
ID8B025006	S24	17:40	02/23/11	1.000	
ID8B025007	S25	17:42	02/23/11	1.000	
ID8B025008	S26	17:45	02/23/11	1.000	
ID8B025009	S27	17:48	02/23/11	1.000	
ID8B025010	S28	17:51	02/23/11	1.000	
ID8B025011	S29	17:54	02/23/11	1.000	
ID8B025012	S30	17:57	02/23/11	1.000	
ID8B025013	S31	18:00	02/23/11	1.000	
ID8B025014	ICV	18:02	02/23/11	1.000	
ID8B025015	ICB	18:05	02/23/11	1.000	
ID8B025016	MRLB2301	18:08	02/23/11	1.000	
ID8B025017	ICSA1	18:11	02/23/11	1.000	
ID8B025018	ICSAB1	18:14	02/23/11	1.000	
ID8B025019	CCV1	18:17	02/23/11	1.000	
ID8B025020	CCB1	18:19	02/23/11	1.000	
ID8B025021	IPB042SB	18:22	02/23/11	1.000	
ID8B025022	IPB042SL	18:25	02/23/11	1.000	
ID8B025023	IPB042SC	18:27	02/23/11	1.000	
ID8B025024	B208-01A	18:30	02/23/11	1.000	
ID8B025025	B208-01	18:33	02/23/11	1.000	
ID8B025026	B208-01J	18:35	02/23/11	5.000	
ID8B025027	B208-01M	18:38	02/23/11	1.000	
ID8B025028	B208-01S	18:41	02/23/11	1.000	
ID8B025029	B208-02	18:43	02/23/11	1.000	
ID8B025030	Blank	18:46	02/23/11	1.000	
ID8B025031	CCV2	18:49	02/23/11	1.000	
ID8B025032	CCB2	18:51	02/23/11	1.000	
ID8B025033	B208-03	18:54	02/23/11	1.000	
ID8B025034	B208-04	18:57	02/23/11	1.000	
ID8B025035	B208-05	19:00	02/23/11	1.000	
ID8B025036	B208-06	19:02	02/23/11	1.000	
ID8B025037	B208-07	19:05	02/23/11	1.000	
ID8B025038	B208-08	19:08	02/23/11	1.000	
ID8B025039	B208-09	19:11	02/23/11	1.000	X
ID8B025040	B208-10	19:14	02/23/11	1.000	
ID8B025041	B208-11	19:16	02/23/11	1.000	
ID8B025042	Blank	19:19	02/23/11	1.000	
ID8B025043	CCV3	19:22	02/23/11	1.000	
ID8B025044	CCB3	19:25	02/23/11	1.000	
ID8B025045	B208-12	19:28	02/23/11	1.000	
ID8B025046	B208-13	19:30	02/23/11	1.000	
ID8B025047	Blank	19:33	02/23/11	1.000	
ID8B025048	Blank	19:36	02/23/11	1.000	
ID8B025049	CCV4	19:39	02/23/11	1.000	
ID8B025050	CCB4	19:42	02/23/11	1.000	
ID8B025051	IPB019WQ	19:45	02/23/11	1.000	
ID8B025052	IPB019WX	19:47	02/23/11	1.000	
ID8B025053	IPB019WY	19:50	02/23/11	1.000	
ID8B025054	B079-01A	19:53	02/23/11	1.000	

ID8B025055	B079-01W	19:55	02/23/11	1.000
ID8B025056	B079-01J	19:58	02/23/11	5.000
ID8B025057	B072-01W	20:01	02/23/11	1.000
ID8B025058	B072-01G	20:04	02/23/11	1.000
ID8B025059	B072-01H	20:06	02/23/11	1.000
ID8B025060	CCV5	20:09	02/23/11	1.000
ID8B025061	CCB5	20:11	02/23/11	1.000
ID8B025062	B072-05A	20:14	02/23/11	5.000
ID8B025063	B072-05T	20:17	02/23/11	5.000
ID8B025064	B072-05J	20:19	02/23/11	25.00
ID8B025065	B072-05G	20:22	02/23/11	5.000
ID8B025066	B072-05H	20:25	02/23/11	5.000
ID8B025067	B072-11T	20:27	02/23/11	5.000
ID8B025068	Blank	20:30	02/23/11	1.000
ID8B025069	CCV6	20:33	02/23/11	1.000
ID8B025070	CCB6	20:36	02/23/11	1.000
ID8B025071	IPB041WB	20:38	02/23/11	1.000
ID8B025072	IPB041WL	20:41	02/23/11	1.000
ID8B025073	IPB041WC	20:44	02/23/11	1.000
ID8B025074	B155-03W	20:46	02/23/11	1.000
ID8B025075	Blank	20:50	02/23/11	1.000
ID8B025076	Blank	20:52	02/23/11	1.000
ID8B025077	CCV7	20:55	02/23/11	1.000
ID8B025078	CCB7	20:58	02/23/11	1.000
ID8B025079	WTB004SB	21:01	02/23/11	1.000
ID8B025080	B487-03A	21:04	02/23/11	1.000
ID8B025081	B487-03	21:06	02/23/11	1.000
ID8B025082	B487-03J	21:09	02/23/11	5.000
ID8B025083	B487-03M	21:12	02/23/11	1.000
ID8B025084	B487-03S	21:15	02/23/11	1.000
ID8B025085	B487-01	21:18	02/23/11	1.000
ID8B025086	B487-02	21:20	02/23/11	1.000
ID8B025087	B487-04	21:23	02/23/11	1.000
ID8B025088	Blank	21:26	02/23/11	1.000
ID8B025089	CCV8	21:29	02/23/11	1.000
ID8B025090	CCB8	21:31	02/23/11	1.000
ID8B025091	WTB004SQ	21:34	02/23/11	5.000
ID8B025092	B487-03A	21:37	02/23/11	5.000
ID8B025093	B487-03T	21:40	02/23/11	5.000
ID8B025094	B487-03J	21:43	02/23/11	25.00
ID8B025095	B487-03G	21:46	02/23/11	5.000
ID8B025096	B487-03H	21:48	02/23/11	5.000
ID8B025097	B487-01T	21:51	02/23/11	5.000
ID8B025098	B487-02T	21:54	02/23/11	5.000
ID8B025099	B487-04T	21:57	02/23/11	5.000
ID8B025100	Blank	22:00	02/23/11	1.000
ID8B025101	CCV9	22:03	02/23/11	1.000
ID8B025102	CCB9	22:05	02/23/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8B025 DATE : 02/23/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	96	101	98	98	97	97	101	97	91	99	98	95	106	92	92	97	98	98	99	99	105	96	91	97	97	95	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2301	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	95	----	----	----	92	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	104	105	105	97	102	94	93	94	93	108	92	94	116	92	90	103	99	106	104	110	111	99	83	99	96	96	106
CCV1	108	101	102	99	97	98	96	102	97	96	100	98	96	108	92	91	101	99	99	102	101	105	97	92	103	98	96	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB042SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB042SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB042SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	107	103	105	99	97	98	99	102	98	96	100	99	96	107	92	92	101	99	97	105	101	104	97	95	103	99	97	108
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	103	105	99	98	99	99	102	99	95	100	100	96	107	93	93	101	99	97	104	101	104	98	95	103	98	97	108
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	107	103	105	99	98	99	100	102	99	96	101	99	96	107	93	93	101	99	98	105	102	104	98	95	102	98	98	108
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB019WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB019WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB019WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B079-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B079-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B079-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	108	104	106	99	98	99	100	102	99	96	100	99	96	107	93	93	101	99	98	105	102	104	98	96	103	99	97	108
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	108	103	106	99	99	99	100	103	100	95	101	101	95	107	95	93	100	99	98	104	102	104	97	95	103	99	98	108
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB041WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB041WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB041WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B155-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	109	101	104	99	98	102	99	104	100	95	100	100	95	107	95	94	100	99	99	103	102	105	97	94	103	99	98	108
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTB004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	108	102	105	99	99	100	101	104	101	95	100	101	95	107	96	95	99	98	99	104	102	106	97	95	102	99	99	109
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTB004SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	108	103	107	100	99	100	103	105	101	95	100	102	95	106	97	95	100	98	99	105	102	105	97	97	102	100	99	109
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B025 (WATER) DATE : 02/23/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-3.44	.820	.980	.140	.180	3.73	.090	-28.9	.170	.150	.210	-.460	.800	.470	5.00	.420	.450	-.510	109	-.210	.070	37.9	-.070	.340	.200	.410	.140	-3.13
MRLB2301	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.62	-1.87	4.18	.030	12.7	1.60	----	1.13	-1.77	1.56	----	3.92	6.80	----	1.13	-1.69	-1.19	-7.78	.290	.970	38.5	-.620	.680	2.60	2.34	-.810	.180
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	34.7	1.01	.510	.280	.270	4.09	.350	8.12	.190	.170	.670	16.8	.450	-.010	22.3	.530	.610	-.110	142	-.830	.080	67.5	-.020	.400	.600	.220	.280	-2.52
IPB042SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB042SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB042SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	8.88	1.75	.290	.780	.230	4.12	.230	15.4	.300	.070	.610	1.58	.540	.140	7.07	.650	.760	-.240	90.0	.130	.080	38.6	-.090	.320	.530	.080	.320	-.570
B208-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	21.0	1.15	.930	1.24	.530	3.37	.260	33.1	.480	.180	.790	13.0	.550	.270	23.6	1.44	.680	-.180	97.8	1.26	.140	32.8	.020	.230	.410	.190	.360	-.810
B208-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	15.9	1.41	1.08	1.05	.550	3.22	.170	32.7	.320	.120	.730	8.57	.870	.500	19.2	1.26	.720	-.380	90.8	-.750	-.050	33.1	.010	-.160	.250	.210	.390	-1.14
IPB019WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB019WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB019WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B079-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

7031

B079-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B079-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.7	1.45	-.230	1.07	.390	3.80	.260	19.5	.510	.080	.780	5.04	1.01	.260	9.62	.880	.850	-.210	128	.420	.120	50.9	.060	.940	.150	.150	.370	-1.33
B072-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	22.4	2.11	.240	.760	.410	4.15	.250	-1.22	.440	.150	.560	7.54	.370	.480	9.11	.750	.650	-.390	96.0	-.050	.050	31.9	.070	.720	.230	.370	.280	-1.04
IPB041WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB041WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB041WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B155-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	9.66	1.21	.200	.760	.250	58.7	.270	16.2	.280	.160	.430	.930	.430	-.080	8.91	.640	.830	-.100	117	-.130	.080	51.7	-.080	.530	.180	-.090	.440	-1.11
WTB004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-1.12	2.09	.360	.850	.240	8.76	.110	18.0	.210	.090	.320	.290	.540	.670	10.5	.760	.580	-.550	274	-.780	.030	892	-.030	.240	-.190	.490	.180	-.580
WTB004SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-1.02	1.46	-.270	.660	.230	5.45	.140	11.3	.170	.100	.210	.310	.510	.620	-3.45	.650	.620	-.500	180	.480	.000	465	-.080	.240	-.080	.140	.170	-1.32

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B025 (SOIL) DATE : 02/23/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-3.44	.820	.980	.140	.180	3.73	.090	-28.9	.170	.150	.210	-.460	.800	.470	5.00	.420	.450	-.510	109	-.210	.070	37.9	-.070	.340	.200	.410	.140	-3.13
MRLB2301	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	8.62	-1.87	4.18	.030	12.7	1.60	----	1.13	-1.77	1.56	----	3.92	6.80	----	1.13	-1.69	-1.19	-7.78	.290	.970	38.5	-.620	.680	2.60	2.34	-.810	.180
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	34.7	1.01	.510	.280	.270	4.09	.350	8.12	.190	.170	.670	16.8	.450	-.010	22.3	.530	.610	-.110	142	-.830	.080	67.5	-.020	.400	.600	.220	.280	-2.52
IPB042SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB042SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB042SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	8.88	1.75	.290	.780	.230	4.12	.230	15.4	.300	.070	.610	1.58	.540	.140	7.07	.650	.760	-.240	90.0	.130	.080	38.6	-.090	.320	.530	.080	.320	-.570
B208-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	21.0	1.15	.930	1.24	.530	3.37	.260	33.1	.480	.180	.790	13.0	.550	.270	23.6	1.44	.680	-.180	97.8	1.26	.140	32.8	.020	.230	.410	.190	.360	-.810
B208-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	15.9	1.41	1.08	1.05	.550	3.22	.170	32.7	.320	.120	.730	8.57	.870	.500	19.2	1.26	.720	-.380	90.8	-.750	-.050	33.1	.010	-.160	.250	.210	.390	-1.14
IPB019WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB019WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB019WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B079-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B079-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B079-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.7	1.45	-.230	1.07	.390	3.80	.260	19.5	.510	.080	.780	5.04	1.01	.260	9.62	.880	.850	-.210	128	.420	.120	50.9	.060	.940	.150	.150	.370	-1.33
B072-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-05H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B072-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	22.4	2.11	.240	.760	.410	4.15	.250	-1.22	.440	.150	.560	7.54	.370	.480	9.11	.750	.650	-.390	96.0	-.050	.050	31.9	.070	.720	.230	.370	.280	-1.04
IPB041WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB041WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB041WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B155-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	9.66	1.21	.200	.760	.250	58.7	.270	16.2	.280	.160	.430	.930	.430	-.080	8.91	.640	.830	-.100	117	-.130	.080	51.7	-.080	.530	.180	-.090	.440	-1.11
WTB004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-1.12	2.09	.360	.850	.240	8.76	.110	18.0	.210	.090	.320	.290	.540	.670	10.5	.760	.580	-.550	274	-.780	.030	892	-.030	.240	-.190	.490	.180	-.580
WTB004SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-03H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B487-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-1.02	1.46	-.270	.660	.230	5.45	.140	11.3	.170	.100	.210	.310	.510	.620	-3.45	.650	.620	-.500	180	.480	.000	465	-.080	.240	-.080	.140	.170	-1.32

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8B025001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8B025002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8B025003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8B025004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8B025005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8B025006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8B025007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8B025008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8B025009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8B025010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8B025011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8B025012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8B025013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8B025014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8B025015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLB2301		ID8B025016			1	☒	MRL-AFCEE	None
17	4	2	4	1	QC	ICSA1		ID8B025017			1	☒	ICSA	None
18	5	2	5	1	QC	ICSAB1		ID8B025018			1	☒	ICSAB	None
19	6	2	6	1	QC	CCV1		ID8B025019			1	☒	CCV	None
20	7	2	7	1	QC	CCB1		ID8B025020			1	☒	3XIDL	None
21	8	2	8	1	QC	IPB042SB		ID8B025021			1	☒	1/2LOQ	None
22	9	2	9	1	QC	IPB042SL		ID8B025022			1	☒	LCS	None
23	10	2	10	1	QC	IPB042SC		ID8B025023			1	☒	LCS	None
24	11	2	11	1	Unk	B208-01A		ID8B025024			1	☒	unk	---
25	12	2	12	1	Unk	B208-01		ID8B025025			1	☒	unk	---
26	13	2	1	2	Unk	B208-01J		ID8B025026			1	☒	unk	---
27	14	2	2	2	Unk	B208-01M		ID8B025027			1	☒	unk	---
28	15	2	3	2	Unk	B208-01S		ID8B025028			1	☒	unk	---
29	16	2	4	2	Unk	B208-02		ID8B025029			1	☒	unk	---
30	17	2	5	2	Blank	Blank		ID8B025030			1	☐		---
31	18	2	6	2	QC	CCV2		ID8B025031			1	☒	CCV	None
32	19	2	7	2	QC	CCB2		ID8B025032			1	☒	3XIDL	None
33	20	2	8	2	Unk	B208-03		ID8B025033			1	☒	unk	---
34	21	2	9	2	Unk	B208-04		ID8B025034			1	☒	unk	---
35	22	2	10	2	Unk	B208-05		ID8B025035			1	☒	unk	---
36	23	2	11	2	Unk	B208-06		ID8B025036			1	☒	unk	---
37	24	2	12	2	Unk	B208-07		ID8B025037			1	☒	unk	---
38	25	2	1	3	Unk	B208-08		ID8B025038			1	☒	unk	---
39	26	2	2	3	Unk	B208-09	F07LDR	ID8B025039			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	B208-10		ID8B025040			1	☒	unk	---
41	28	2	4	3	Unk	B208-11		ID8B025041			1	☒	unk	---
42	29	2	5	3	Blank	Blank		ID8B025042			1	☐		---
43	30	2	6	3	QC	CCV3		ID8B025043			1	☒	CCV	None
44	31	2	7	3	QC	CCB3		ID8B025044			1	☒	3XIDL	None
45	32	2	8	3	Unk	B208-12		ID8B025045			1	☒	unk	---
46	33	2	9	3	Unk	B208-13		ID8B025046			1	☒	unk	---
47	35	2	11	3	Blank	Blank		ID8B025047			1	☐		---
48	36	2	12	3	Blank	Blank		ID8B025048			1	☐		---
49	37	2	1	4	QC	CCV4		ID8B025049			1	☒	CCV	None
50	38	2	2	4	QC	CCB4		ID8B025050			1	☒	3XIDL	None
51	69	3	9	1	QC	IPB019WQ		ID8B025051			1	☒	1/2LOQ	None
52	70	3	10	1	QC	IPB019WX		ID8B025052			1	☒	LCS	None
53	71	3	11	1	QC	IPB019WY		ID8B025053			1	☒	LCS	None
54	72	3	12	1	Unk	B079-01A		ID8B025054			1	☒	unk	---
55	73	3	1	2	Unk	B079-01W		ID8B025055			1	☒	unk	---
56	74	3	2	2	Unk	B079-01J		ID8B025056			1	☒	unk	---
57	75	3	3	2	Unk	B072-01W		ID8B025057			1	☒	unk	---
58	76	3	4	2	Unk	B072-01G		ID8B025058			1	☒	unk	---
59	77	3	5	2	Unk	B072-01H		ID8B025059			1	☒	unk	---
60	78	3	6	2	QC	CCV5		ID8B025060			1	☒	CCV	None
61	79	3	7	2	QC	CCB5		ID8B025061			1	☒	3XIDL	None
62	80	3	8	2	Unk	B072-05A	5X	ID8B025062			1	☒	unk	---
63	81	3	9	2	Unk	B072-05T	5X	ID8B025063			1	☒	unk	---
64	82	3	10	2	Unk	B072-05J	25X	ID8B025064			1	☒	unk	---
65	83	3	11	2	Unk	B072-05G	5X	ID8B025065			1	☒	unk	---
66	84	3	12	2	Unk	B072-05H	5X	ID8B025066			1	☒	unk	---
67	85	3	1	3	Unk	B072-11T	5X	ID8B025067			1	☒	unk	---
68	86	3	2	3	Blank	Blank		ID8B025068			1	☐		---
69	87	3	3	3	QC	CCV6		ID8B025069			1	☒	CCV	None
70	88	3	4	3	QC	CCB6		ID8B025070			1	☒	3XIDL	None
71	39	2	3	4	QC	IPB041WB		ID8B025071			1	☒	1/2LOQ	None
72	40	2	4	4	QC	IPB041WL		ID8B025072			1	☒	LCS	None
73	41	2	5	4	QC	IPB041WC		ID8B025073			1	☒	LCS	None
74	34	2	10	3	Unk	B155-03W	TOT	ID8B025074			1	☒	unk	---
75	42	2	6	4	Blank	Blank		ID8B025075			1	☐		---
76	89	3	5	3	Blank	Blank		ID8B025076			1	☐		---
77	43	2	7	4	QC	CCV7		ID8B025077			1	☒	CCV	None
78	44	2	8	4	QC	CCB7		ID8B025078			1	☒	3XIDL	None

7935

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	45	2	9	4	QC	WTB004SB	STLC	ID8B025079			1	☒	1/2LOQ	None
80	46	2	10	4	Unk	B487-03A	STLC	ID8B025080			1	☒	unk	---
81	47	2	11	4	Unk	B487-03	STLC	ID8B025081			1	☒	unk	---
82	48	2	12	4	Unk	B487-03J	STLC	ID8B025082			1	☒	unk	---
83	49	2	1	5	Unk	B487-03M	STLC	ID8B025083			1	☒	unk	---
84	50	2	2	5	Unk	B487-03S	STLC	ID8B025084			1	☒	unk	---
85	51	2	3	5	Unk	B487-01	STLC	ID8B025085			1	☒	unk	---
86	52	2	4	5	Unk	B487-02	STLC	ID8B025086			1	☒	unk	---
87	53	2	5	5	Unk	B487-04	STLC	ID8B025087			1	☒	unk	---
88	54	2	6	5	Blank	Blank		ID8B025088			1	☐		---
89	55	2	7	5	QC	CCV8		ID8B025089			1	☒	CCV	None
90	56	2	8	5	QC	CCB8		ID8B025090			1	☒	3XIDL	None
91	57	2	9	5	QC	WTB004SQ	5X STLC	ID8B025091			1	☒	1/2LOQ	None
92	58	2	10	5	Unk	B487-03A	5X STLC	ID8B025092			1	☒	unk	---
93	59	2	11	5	Unk	B487-03T	5X STLC	ID8B025093			1	☒	unk	---
94	60	2	12	5	Unk	B487-03J	25X STLC	ID8B025094			1	☒	unk	---
95	61	3	1	1	Unk	B487-03G	5X STLC	ID8B025095			1	☒	unk	---
96	62	3	2	1	Unk	B487-03H	5X STLC	ID8B025096			1	☒	unk	---
97	63	3	3	1	Unk	B487-01T	5X STLC	ID8B025097			1	☒	unk	---
98	64	3	4	1	Unk	B487-02T	5X STLC	ID8B025098			1	☒	unk	---
99	65	3	5	1	Unk	B487-04T	5X STLC	ID8B025099			1	☒	unk	---
100	66	3	6	1	Blank	Blank		ID8B025100			1	☐		---
101	67	3	7	1	QC	CCV9		ID8B025101			1	☒	CCV	None
102	68	3	8	1	QC	CCB9		ID8B025102			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00157	.00002	-.00001	.00030	.00007	.00046	-.00004	.00083	.00001	-.00098	Blank
2	S20					.86961		.11051				S20
3	S21					8.7084		1.0836				S21
4	S22				.51212						.16029	S22
5	S23				5.0191						1.6729	S23
6	S24						.09408					S24
7	S25						.97101					S25
8	S26	.27668							.86053	.12897		S26
9	S27	9.7880							7.8783	1.2281		S27
10	S28		.00546									S28
11	S29		.05385									S29
12	S30			.00129								S30
13	S31			.00526								S31
14	ICV	105.91	1.4439	1.0094	1.9512	1.4720	2.4255	1.9395	75.893	2.4189	.91156	ICV
15	ICB	-.00344	.00082	.00098	.00014	.00018	.00373	.00009	-.02889	.00017	.00015	ICB
16	MRLB2301	.21473	.05154	.00978	.00526	.00417	.09503	.00515	.50973	.01033	.00907	MRLB2301
17	ICSA1	397.73	.00862	-.00187	.00418	.00003	.01271	.00160	473.55	.00113	-.00177	ICSA1
18	ICSAB1	395.26	1.0403	1.0511	.52717	.48268	.51091	.94133	464.64	.47240	.46683	ICSAB1
19	CCV1	107.69	1.5201	1.0244	1.9774	1.4567	2.4598	1.9112	76.269	2.4246	.95511	CCV1
20	CCB1	.03468	.00101	.00051	.00028	.00027*	.00409	.00035	.00812	.00019	.00017	CCB1
21	IPB042SB	.06555	.00148	-.00201	.00061	.00017	.00209	-.00004	.06549	.00076	.00006	IPB042SB
22	IPB042SL	5.3578	2.4926	.50821	.51239	.51121	.47163	.50435	52.371	.52063	.50601	IPB042SL
23	IPB042SC	5.3197	2.4906	.50874	.51081	.51050	.47185	.50739	52.390	.52194	.50399	IPB042SC
24	B208-01A	68.395	2.4284	.56651	1.3030	.52084	.49092	.60325	93.104	.60678	.53489	B208-01A
25	B208-01	63.415	.01242	.04682	.81788	.00620	.02450	.11441	43.520	.09588	.02738	B208-01
26	B208-01J	12.725	.00262	.00951	.16074	.00127	.00474	.02345	8.7858	.01937	.00528	B208-01J
27	B208-01M	136.15	2.1441	.59390	1.7247	.52342	.47958	.65217	124.45	.67142	.55022	B208-01M
28	B208-01S	145.17	2.1080	.59483	1.8415	.52095	.48081	.69000	113.52	.68428	.55518	B208-01S
29	B208-02	69.764	.01297	.04993	.91058	.00679	.02983	.10787	48.563	.11354	.03297	B208-02
30	Blank	.06361	.00138	.00078	.00638	.00032	-.00038	.00042	.36503	.00050	.00024	Blank
31	CCV2	107.42	1.5470	1.0521	1.9730	1.4607	2.4458	1.9782	76.218	2.4487	.95689	CCV2
32	CCB2	.00888	.00175	.00029	.00078	.00023*	.00412	.00023	.01539	.00030	.00007	CCB2
33	B208-03	79.411	.02507	.10709	.95968	.00922	.03226	.60110	90.686	.18502	.07345	B208-03
34	B208-04	90.491	.02208	.08207	1.2826	.00882	.02455	.18399	46.524	.22630	.07702	B208-04
35	B208-05	64.802	.00835	.06812	.93042	.00659	.02735	.04620	25.880	.12668	.09228	B208-05
36	B208-06	81.132	.00633	.05333	1.0082	.00710	.01316	.04138	24.586	.12835	.05673	B208-06
37	B208-07	82.932	.00908	.07791	1.0827	.00772	.02550	.01304	272.77	.23681	.04360	B208-07
38	B208-08	80.381	.01191	.07135	1.0107	.00699	.02276	.00588	149.28	.18735	.04337	B208-08
39	B208-09	84.228	.02146	.21339	1.5430	.01110	.06985	.02447	36.977	.35108	.18491	B208-09
40	B208-10	83.848	.01154	.10529	1.3740	.00756	.03112	.00550	29.479	.23415	.22348	B208-10
41	B208-11	88.766	.01295	.13239	1.3266	.00885	.04800	.00599	39.501	.40246	.12291	B208-11
42	Blank	.03768	.00058	-.00061	.00472	.00005	-.00165	-.00002	.01720	.00006	.00003	Blank
43	CCV3	107.14	1.5414	1.0519	1.9754	1.4643	2.4645	1.9852	76.566	2.4770	.95409	CCV3
44	CCB3	.02099	.00115	.00093	.00124	.00053*	.00337	.00026	.03313	.00048	.00018	CCB3
45	B208-12	80.116	.01138	.09302	1.0258	.00821	.03111	.09040	247.97	.24504	.04809	B208-12
46	B208-13	93.591	.01217	.10714	1.2248	.00820	.03891	.04474	272.10	.21704	.05055	B208-13
47	Blank	.04810	-.00037	.00037	.00321	.00002	-.00115	.00000	.17782	-.00003	.00008	Blank
48	Blank	-.00631	.00035	-.00019	.00072	.00001	-.00134	.00003	.00121	-.00005	.00011	Blank
49	CCV4	107.31	1.5431	1.0543	1.9824	1.4665	2.4769	1.9946	76.465	2.4835	.95652	CCV4
50	CCB4	.01593	.00141	.00108	.00105	.00055*	.00322	.00017	.03271	.00032	.00012	CCB4
51	IPB019WQ	.01150	.00096	.00013	.00003	.00006	.00134	.00005	-.01572	.00010	.00007	IPB019WQ
52	IPB019WX	5.9217	2.6513	.54498	.51997	.52437	.52030	.53329	52.274	.52852	.49276	IPB019WX
53	IPB019WY	5.8830	2.6466	.54213	.51447	.52014	.51910	.53159	51.894	.52360	.48758	IPB019WY
54	B079-01A	6.0051	2.5651	.56320	.61095	.52721	.57166	.52950	114.47	.54231	.49549	B079-01A

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
55	B079-01W	.00280	.00180	.00175	.08950	.00012	.05586	.00004	64.968	.01308	-.00042	B079-01W
56	B079-01J	-.00822	.00025	.00113	.01794	.00008	.00989	.00010	13.181	.00261	-.00002	B079-01J
57	B072-01W	.05133	.00054	-.00065	.07580	.00024	.00354	.00018	53.950	.00058	.00048	B072-01W
58	B072-01G	6.0183	2.6772	.54930	.59610	.52211	.52413	.53221	105.22	.52382	.49131	B072-01G
59	B072-01H	5.8961	2.6095	.53623	.57989	.50819	.51240	.51651	103.17	.51229	.47900	B072-01H
60	CCV5	107.74	1.5560	1.0600	1.9817	1.4672	2.4746	2.0049	76.828	2.4708	.95589	CCV5
61	CCB5	.01569	.00145	-.00023	.00107	.00039*	.00380	.00026	.01953	.00051	.00008	CCB5
62	B072-05A	29.800	2.4903	.55669	1.2690	.52378	.50307	.52983	55.987	.56303	.51402	B072-05A
63	B072-05T	23.523	.00560	.01847	.76590	.00179	.01548	-.00052	4.1470	.03274	.01534	B072-05T
64	B072-05J	4.7724	.00099	.00480	.15572	.00039	.00256	-.00012	.82624	.00659	.00301	B072-05J
65	B072-05G	50.339	.41804	.11928	1.9300	.10557	.12799	.10430	14.851	.15203	.11105	B072-05G
66	B072-05H	48.848	.41447	.11517	2.1234	.10587	.12389	.10449	15.631	.15122	.10952	B072-05H
67	B072-11T	32.207	.00592	.03087	.23449	.00192	.01711	-.00091	.08434	.07300	.01838	B072-11T
68	Blank	.00794	.00065	.00096	.00136	.00008	-.00123	.00008	.00955	-.00001	.00016	Blank
69	CCV6	108.07	1.5510	1.0600	1.9879	1.4778	2.4869	2.0049	77.515	2.4972	.94940	CCV6
70	CCB6	.02243	.00211	.00024	.00076	.00041*	.00415	.00025	-.00122	.00044	.00015	CCB6
71	IPB041WB	.00926	.00074	-.00055	.00000	.00007	.00406	.00000	.37389	.00002	-.00001	IPB041WB
72	IPB041WL	5.7340	2.5680	.53633	.50993	.51697	.51534	.53089	52.040	.52584	.48249	IPB041WL
73	IPB041WC	5.8336	2.6259	.55107	.52023	.52631	.52390	.54253	52.883	.53522	.49179	IPB041WC
74	B155-03W	.02057	.00147	.00715	.13341	.00013	156.22*	-.00090	78.475	.00182	-.00010	B155-03W
75	Blank	-.00900	.00087	.00008	.00121	.00004	.39174	.00001	.02780	-.00005	-.00007	Blank
76	Blank	.00539	.00101	.00110	.00317	.00018	.12988	.00019	.18306	.00020	.00025	Blank
77	CCV7	108.76	1.5214	1.0432	1.9855	1.4748	2.5573	1.9766	77.939	2.5022	.95033	CCV7
78	CCB7	.00966	.00121	.00020	.00076	.00025*	.05868*	.00027	.01624	.00028	.00016	CCB7
79	WTB004SB	.03690	-.00624	.00222	.00163	.00010	.04819	-.00002	.02140	.00508*	.00019	WTB004SB
80	B487-03A	16.944	2.9214	.70091	1.9088	.51378	.63080	.57351	146.57	.58296	.52333	B487-03A
81	B487-03	11.104	.13998	.01855	1.4304	.00070	.07642	.04278	99.836	.03712	.01866	B487-03
82	B487-03J	2.1198	.02610	.00134	.28050	.00027	.02643	.00876	20.524	.00761	.00386	B487-03J
83	B487-03M	18.349	3.0573	.70266	2.0589	.50218	.62943	.56618	157.47	.57213	.50896	B487-03M
84	B487-03S	18.361	3.0451	.70328	2.0641	.50205	.63207	.56505	156.22	.57355	.51017	B487-03S
85	B487-01	16.357	.10067	.02012	1.3469	.00086	.07653	.03859	136.32	.04393	.02141	B487-01
86	B487-02	18.008	.12485	.01851	1.3003	.00062	.09922	.07371	107.43	.04409	.01932	B487-02
87	B487-04	9.2768	.07185	.01561	1.2052	.00053	.05865	.03091	116.49	.04459	.01592	B487-04
88	Blank	-.00769	.00050	-.00065	.00140	.00003	.00517	.00004	.02187	-.00006	.00012	Blank
89	CCV8	107.66	1.5270	1.0522	1.9892	1.4840	2.4885	2.0136	78.210	2.5223	.94788	CCV8
90	CCB8	-.00112	.00209	.00036	.00085	.00024*	.00876*	.00011	.01799	.00021	.00009	CCB8
91	WTB004SQ	.00218	-.00096	.00032	.00019	.00003	.00674	-.00003	-.01973	.00098	.00005	WTB004SQ
92	B487-03A	8.0183	2.6494	.60564	.79467	.52711	.54388	.56371	72.507	.56133	.51293	B487-03A
93	B487-03T	2.0844	.02725	.00304	.27711	.00024	.01542	.00889	20.408	.00762	.00359	B487-03T
94	B487-03J	.41685	.00501	-.00033	.05580	.00033	.00586	.00192	4.1157	.00154	.00082	B487-03J
95	B487-03G	3.4197	.56532	.12085	.40343	.10343	.12201	.12180	32.623	.11785	.10266	B487-03G
96	B487-03H	3.4219	.56269	.12027	.40577	.10374	.12247	.11970	32.618	.11694	.10240	B487-03H
97	B487-01T	3.0746	.01766	.00406	.26493	.00016	.01556	.00788	27.827	.00902	.00426	B487-01T
98	B487-02T	3.4235	.02335	.00196	.25757	.00024	.02011	.01539	22.129	.00901	.00391	B487-02T
99	B487-04T	1.7668	.01356	.00305	.23959	.00014	.01234	.00619	23.914	.00906	.00311	B487-04T
100	Blank	-.01201	.00028	.00081	.00086	.00004	.00148	.00002	.00512	-.00005	.00011	Blank
101	CCV9	108.35	1.5506	1.0749	1.9934	1.4925	2.4946	2.0517	78.776	2.5285	.94696	CCV9
102	CCB9	-.00102	.00146	-.00027	.00066	.00023*	.00545	.00014	.01129	.00017	.00010	CCB9

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00162	.00002	-.00003	.00008	.00001	.00001	.00004	-.00012	-.00021	.00000	Blank
2	S20			.19848			.10912					S20
3	S21			1.9851			1.0744					S21
4	S22	.34753	.05591									S22
5	S23	3.3282	2.1247									S23
6	S24							.78396				S24
7	S25							7.9145				S25
8	S26								.79608	.34735		S26
9	S27								7.5311	3.4983		S27
10	S28					.10302						S28
11	S29					.42178						S29
12	S30				.03064						.00144	S30
13	S31				.15073						.00586	S31
14	ICV	2.4662	24.610	2.3699	.53015	55.158	2.2894	2.4208	2.4487	58.719	.98950	ICV
15	ICB	.00021	-.00046	.00080	.00047	.00500	.00042	.00045	-.00051	.10894	-.00021	ICB
16	MRLB2301	.01089	.10411	.00316	.09885	.17587	.00521	.00995	.00975	.99760	.00982	MRLB2301
17	ICSA1	.00156	184.35	.00392	.00680	188.20	.00113	-.00169	-.00119	-.00778	.00029	ICSA1
18	ICSAB1	.53901	183.15	.93877	1.1590	184.47	.45133	1.0259	.98810	79.171	1.0429	ICSAB1
19	CCV1	2.5097	24.551	2.3927	.54196	55.098	2.2871	2.5260	2.4803	59.383	1.0162	CCV1
20	CCB1	.00067	.01676	.00045	-.00001	.02226	.00053	.00061	-.00011	.14222	-.00083	CCB1
21	IPB042SB	.00078	.03170	.00030	-.00023	.02223	.00044	.00054	-.00036	.12927	-.00074	IPB042SB
22	IPB042SL	.52436	5.2664	.50571	.00068*	48.249	.49426	.55333	.47424	50.414	.49663	IPB042SL
23	IPB042SC	.51969	5.2466	.50605	.00058*	48.155	.49531	.55114	.47322	50.382	.49811	IPB042SC
24	B208-01A	.73277	95.199	1.2023	.03052	56.995	2.3441	.53188	.57311	55.286	.51457	B208-01A
25	B208-01	.19266	94.724	.74057	.02985	10.407	1.9462	.00328	.08523	5.1319	.00576	B208-01
26	B208-01J	.03778	19.515	.14782	.00527	2.0985	.39294	.00061	.01557	1.0149	.00242	B208-01J
27	B208-01M	.82936	143.56	1.5829	.06700	61.268	3.3767	.54748	.60125	59.888	.52032	B208-01M
28	B208-01S	.83684	154.28	1.5947	.07034	62.204	4.2870	.54335	.60883	59.631	.51822	B208-01S
29	B208-02	.14379	128.04	.53725	.03062	10.710	2.8903	.00348	.10745	4.4984	.00458	B208-02
30	Blank	.00085	.08571	.00104	.00003	.01634	.00232	.00045	.00006	.07041	-.00017	Blank
31	CCV2	2.4941	24.701	2.4061	.53297	55.467	2.3093	2.5188	2.4812	58.131	1.0456	CCV2
32	CCB2	.00061	.00158	.00054	.00014	.00707	.00065	.00076	-.00024	.09003	.00013	CCB2
33	B208-03	.70782	179.88	2.3451	.03697	21.736	3.5562	.01088	.16260	7.3264	.01318	B208-03
34	B208-04	.27100	169.35	.92798	.04147	10.761	5.7128	.00624	.11067	6.4513	.01622	B208-04
35	B208-05	.08576	131.59	.41593	.02393	4.6244	5.8877	.00509	.07446	3.2201	.00605	B208-05
36	B208-06	.08147	107.12	.30514	.02856	5.4268	2.3830	.00406	.06570	3.4208	.00750	B208-06
37	B208-07	.08360	170.93	.32525	.04623	14.319	2.6406	.00680	.08029	6.2903	.00341	B208-07
38	B208-08	.07289	164.04	.84480	.04126	5.9877	2.3587	.00693	.09479	5.3558	.00223	B208-08
39	B208-09	.07766	486.75*	.34261	.02933	4.8679	11.093	.01717	.08175	5.4234	.00653	B208-09
40	B208-10	.05946	234.62	.30721	.03695	5.3633	9.9549	.01133	.07009	5.1522	.00603	B208-10
41	B208-11	.07032	315.92	.28161	.03964	5.5684	8.6745	.01366	.10125	5.1837	.00664	B208-11
42	Blank	-.00002	.16849	.00086	.00027	.00512	.00462	.00007	-.00061	.01882	-.00006	Blank
43	CCV3	2.5048	24.884	2.3985	.53391	55.696	2.3197	2.5171	2.4770	58.473	1.0419	CCV3
44	CCB3	.00079	.01304	.00055	.00027	.02363	.00144	.00068	-.00018	.09778	.00126	CCB3
45	B208-12	.11812	200.98	.30410	.04316	13.878	2.7596	.00741	.08886	6.1176	.00512	B208-12
46	B208-13	.13344	211.99	.30414	.04963	13.565	2.9008	.00905	.08311	5.8974	.00550	B208-13
47	Blank	.00017	.14267	.00023	.00027	.00968	.00215	.00008	-.00062	.02845	-.00070	Blank
48	Blank	.00009	.00811	.00015	.00032	-.00434	.00034	.00003	-.00062	.02684	-.00014	Blank
49	CCV4	2.5219	24.729	2.4028	.53416	55.639	2.3216	2.5162	2.4843	58.610	1.0460	CCV4
50	CCB4	.00073	.00857	.00087	.00050	.01919	.00126	.00072	-.00038	.09077	-.00075	CCB4
51	IPB019WQ	.00050	.00641	.00059	.00046	.00312	.00129	.00020	-.00053	.04437	-.00075	IPB019WQ
52	IPB019WX	.54100	5.4632	.51338	.00024*	48.578	.50359	.52338	.47166	50.411	.53902	IPB019WX
53	IPB019WY	.53515	5.4228	.50738	.00075*	48.467	.49760	.52025	.46672	49.707	.53556	IPB019WY
54	B079-01A	.54569	5.4574	.51427	.03425	59.542	.50444	.53174	.48308	53.101	.54909	B079-01A

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
55	B079-01W	.00092	.01148	.00059	.03320	11.968	.00051	.02052	-.00062	2.3059	.00092	B079-01W
56	B079-01J	.00029	-.00123	.00030	.00639	2.4192	.00024	.00399	-.00074	.49854	.00001	B079-01J
57	B072-01W	.00130	.05034	.00017	.00029	7.6965	.00498	.00029	-.00008	.93875	.00086	B072-01W
58	B072-01G	.54170	5.4212	.51015	.00120	55.990	.50353	.52428	.46880	51.739	.54313	B072-01G
59	B072-01H	.52690	5.3243	.49938	.00174	54.821	.49205	.51321	.45725	50.541	.52960	B072-01H
60	CCV5	2.5076	24.805	2.4008	.53332	55.866	2.3252	2.5184	2.4791	58.603	1.0513	CCV5
61	CCB5	.00078	.00504	.00101	.00026	.00962	.00088	.00085*	-.00021	.12794	.00042	CCB5
62	B072-05A	.61716	106.95	.58884	.02079	52.390	.94720	.51160	.53487	53.002	.52678	B072-05A
63	B072-05T	.08651	103.68	.08035	.01895	4.2460	.45771	.00132	.04866	3.9922	.00052	B072-05T
64	B072-05J	.01745	21.266	.01689	.00406	.86625	.09358	.00023	.00915	.84195	.00008	B072-05J
65	B072-05G	.18419	95.396	.19582	.04570	16.888	.45116	.09805	.13886	20.812	.09862	B072-05G
66	B072-05H	.18194	92.037	.20086	.04142	16.892	.42216	.09829	.13599	19.516	.09916	B072-05H
67	B072-11T	.05751	167.98	.07402	.01503	1.3331	.65219	.00253	.05664	1.7770	.00106	B072-11T
68	Blank	.00019	.06938	.00035	-.00019	-.00474	.00053	.00001	-.00036	.03318	-.00060	Blank
69	CCV6	2.5154	25.161	2.3801	.53344	56.766	2.3362	2.5065	2.4646	58.965	1.0437	CCV6
70	CCB6	.00056	.00754	.00037	.00048	.00911	.00075	.00065	-.00039	.09602	-.00005	CCB6
71	IPB041WB	.00210	.00304	.00024	-.00005	.00909	.00017	.00004	.03525*	.04256	-.00009	IPB041WB
72	IPB041WL	.52686	5.3553	.50072	.00064*	48.468	.49757	.50813	.45500	50.105	.52745	IPB041WL
73	IPB041WC	.53846	5.4454	.51015	.00064*	49.229	.51433	.51663	.46375	51.151	.54125	IPB041WC
74	B155-03W	.00157	.26984	.00223	.06743	24.788	.15829	.00262	.00034	20.159	-.00701*	B155-03W
75	Blank	.00039	-.00341	.00023	.00054	.01501	.00023	.00007	-.00071	.17267	-.00059	Blank
76	Blank	.00025	.00682	.00076	.00048	.00339	.00067	.00026	-.00008	.08605	-.00061	Blank
77	CCV7	2.5064	25.095	2.3814	.53505	56.842	2.3420	2.5029	2.4661	59.472	1.0270	CCV7
78	CCB7	.00043	.00093	.00043	-.00008	.00891	.00064	.00083*	-.00010	.11672	-.00013	CCB7
79	WTB004SB	.00225	.00788	-.00004	.00296	.00551	.00043	.00054	-.00025	1.4560*	.03248*	WTB004SB
80	B487-03A	4.2751	12.249	3.5960	.01530	50.621	3.7436	.54666	.57181	66.854	.77957	B487-03A
81	B487-03	3.7838	7.1691	3.2069	.01471	4.6211	3.3896	.00473	.08893	6.8373	.03113	B487-03
82	B487-03J	.68475	1.4819	.65919	.00317	.97385	.69235	.00095	.01731	1.8540	.00578	B487-03J
83	B487-03M	4.6883	12.996	3.9308	.01620	51.400	4.0878	.55729	.54981	68.143	.78404	B487-03M
84	B487-03S	4.7142	12.983	3.9353	.01633	51.496	4.0947	.55722	.55193	68.423	.78342	B487-03S
85	B487-01	2.7246	10.236	8.4679	.01709	5.8991	3.6707	.00605	.06960	8.9936	.03553	B487-01
86	B487-02	5.2054	8.6564	3.3658	.01539	5.2625	3.7446	.00590	.06976	8.3528	.03126	B487-02
87	B487-04	2.5397	6.8462	2.5651	.01292	4.2708	2.9066	.00510	.09617	7.1942	.03088	B487-04
88	Blank	.00123	.00128	.00214	.00036	-.00397	.00083	.00012	-.00065	.53899	-.00013	Blank
89	CCV8	2.5000	25.215	2.3749	.53395	57.386	2.3631	2.4868	2.4611	59.530	1.0367	CCV8
90	CCB8	.00032	.00029	.00054	.00067	.01053	.00076	.00058	-.00055	.27372*	-.00078	CCB8
91	WTB004SQ	.00076	-.00191	.00031	.00119	-.00227	.00015	.00011	-.00072	.43604	.00511*	WTB004SQ
92	B487-03A	1.2388	7.0250	1.1587	.00371	49.624	1.1837	.52460	.50606	55.514	.61440	B487-03A
93	B487-03T	.67251	1.4743	.65611	.00311	.96430	.68740	.00102	.01699	1.3494	.00446	B487-03T
94	B487-03J	.13248	.29651	.13227	.00091	.19498	.13961	.00016	.00269	.44101	.00123	B487-03J
95	B487-03G	.84766	2.7039	.82055	.00363	10.583	.85085	.10630	.11061	12.219	.12679	B487-03G
96	B487-03H	.84693	2.6923	.81508	.00359	10.537	.85109	.10689	.11026	12.489	.12290	B487-03H
97	B487-01T	.49354	2.0920	1.7532	.00334	1.2268	.75565	.00106	.01317	1.5250	.00541	B487-01T
98	B487-02T	.95629	1.7878	.69411	.00301	1.1007	.77564	.00112	.01352	1.4670	.00547	B487-02T
99	B487-04T	.46206	1.4099	.52701	.00296	.90897	.59867	.00097	.01839	1.2432	.00530	B487-04T
100	Blank	.00011	-.00297	.00032	.00113	-.00291	.00052	.00008	-.00065	.22613	.00002	Blank
101	CCV9	2.5054	25.488	2.3730	.53250	58.075	2.3717	2.4903	2.4592	59.335	1.0505	CCV9
102	CCB9	.00021	.00031	.00051	.00062	-.00345	.00065	.00062	-.00050	.17982	.00048	CCB9

ID8B025 Section 2 of 3

ID8B025 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00012	.00120	.00003	-.00001	.00008	.00000	-.00012	.00239	Blank
2	S20									S20
3	S21									S21
4	S22							.13715		S22
5	S23							1.3481		S23
6	S24		1.1174							S24
7	S25		6.4156							S25
8	S26									S26
9	S27									S27
10	S28				.00611					S28
11	S29				.05655					S29
12	S30	.04199		.13572		.02574	.01657		.56444	S30
13	S31	.20787		.66960		.12598	.08197		5.4892	S31
14	ICV	.49499	62.830	.47899	2.2659	.48564	.48731	1.4300	2.6138	ICV
15	ICB	.00007	.03793	-.00007	.00034	.00020	.00041	.00014	-.00313	ICB
16	MRLB2301	.01047	.52630	.01014	.01138	.01016	.01018	.01017	.00799*	MRLB2301
17	ICSA1	.00097	.03849	-.00062	.00068	.00260	.00234	-.00081	.00018	ICSA1
18	ICSAB1	1.0988	83.310	.49259	.82511	.99201	.96251	.47776	1.0646	ICSAB1
19	CCV1	.50461	63.248	.48669	2.2958	.51610	.49014	1.4379	2.6656	CCV1
20	CCB1	.00008	.06754	-.00002	.00040	.00060	.00022	.00028	-.00252	CCB1
21	IPB042SB	.00079	.05884	.00014	-.00101	.04032	.00076	.00047	.00531	IPB042SB
22	IPB042SL	.49707	54.129	.48954	.47359	.55852	.51802	.51695	.57276	IPB042SL
23	IPB042SC	.49834	54.010	.48924	.47805	.55868	.51583	.51514	.57451	IPB042SC
24	B208-01A	.49509	53.921	.54518	.45987	.53540	1.1933	.68408	22.386	B208-01A
25	B208-01	.00072	.30556	.07091	-.00087	.04365	.72120	.17823	22.564	B208-01
26	B208-01J	.00333	.06810	.01378	-.00019	.00906	.14182	.03544	4.4370	B208-01J
27	B208-01M	.51363	55.746	.61431	.45491	.56652	1.5121	.78723	31.562	B208-01M
28	B208-01S	.51221	55.184	.64416	.45351	.56450	1.6633	.81230	36.665*	B208-01S
29	B208-02	.00023	.36006	.08842	-.00177	.04809	.74020	.22615	20.497	B208-02
30	Blank	.00015	.02984	.00015	.00056	.00049	.00130	.00060	.02353	Blank
31	CCV2	.50327	62.188	.48608	2.3689	.51525	.49302	1.4485	2.6929	CCV2
32	CCB2	.00008	.03855	-.00009	.00032	.00053	.00008	.00032	-.00057	CCB2
33	B208-03	.00076	.39177	.08613	-.00083	.04973	1.0565	.30149	88.353*	B208-03
34	B208-04	.00040	.31475	.08358	.00525	.04382	1.1646	.34914	36.132*	B208-04
35	B208-05	-.00070	.45238	.08347	-.00301	.04575	.55335	.36006	7.3349	B208-05
36	B208-06	-.00078	.77126	.09792	-.00174	.04643	.61093	.29802	7.3293	B208-06
37	B208-07	-.00019	.30717	.12558	-.00101	.04662	1.0447	.30555	1.9215	B208-07
38	B208-08	-.00033	.27588	.09854	-.00134	.04974	.85019	.28520	1.0467	B208-08
39	B208-09	.00032	.17310	.06144	-.00049	.05598	1.0489	.69240	2.0266	B208-09
40	B208-10	-.00018	.23504	.06718	-.00157	.04765	1.2398	.42671	.88143	B208-10
41	B208-11	.00014	.23201	.07260	-.00151	.04699	1.2671	.51193	.78509	B208-11
42	Blank	.00000	-.01230	-.00004	-.00004	.00034	.00095	.00040	.00096	Blank
43	CCV3	.50692	62.320	.48778	2.3717	.51362	.49180	1.4597	2.6985	CCV3
44	CCB3	.00014	.03278	.00002	.00023	.00041	.00019	.00036	-.00081	CCB3
45	B208-12	.00061	.31540	.11977	-.00152	.04859	.82218	.33454	10.913	B208-12
46	B208-13	-.00020	.42571	.14057	-.00098	.07260	.86737	.36537	5.5469	B208-13
47	Blank	.00002	-.00901	-.00005	-.00030	.00000	.00030	.00026	.00169	Blank
48	Blank	-.00007	-.01189	-.00014	-.00012	.00015	.00025	-.00001	-.00130	Blank
49	CCV4	.51061	62.485	.48962	2.3799	.51110	.49193	1.4692	2.6938	CCV4
50	CCB4	-.00005	.03308	.00001	-.00016	.00025	.00021	.00039	-.00114	CCB4
51	IPB019WQ	.00005	.00136	-.00014	-.00017	.00017	.00057	.00007	-.00105	IPB019WQ
52	IPB019WX	.53215	54.050	.50005	.52133	.51679	.52416	.52118	.56153	IPB019WX
53	IPB019WY	.52660	53.521	.49643	.51812	.51361	.52495	.51619	.55536	IPB019WY
54	B079-01A	.51926	97.381	1.2810	.50833	.50272	.50480	.52989	.61829	B079-01A

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
55	B079-01W	-.00003	44.199	.82157	-.00049	.00037	.00139	.00614	.05092	B079-01W
56	B079-01J	.00004	8.7030	.16440	.00048	-.00021	.00047	.00129	.00917	B079-01J
57	B072-01W	-.00015	2.5315	.03798	.00023	.00000	.00156	.00021	.00597	B072-01W
58	B072-01G	.53672	56.894	.53987	.51472	.51473	.52503	.51903	.56022	B072-01G
59	B072-01H	.52133	55.631	.52687	.50059	.50285	.51232	.50567	.54463	B072-01H
60	CCV5	.50922	62.430	.48763	2.3985	.51649	.49348	1.4585	2.7021	CCV5
61	CCB5	.00012	.05093	.00006	.00094	.00015	.00015	.00037	-.00133	CCB5
62	B072-05A	.50333	52.360	.53101	.50269	.50665	1.0297	.58238	.67760	B072-05A
63	B072-05T	.00033	.05815	.06097	.00150	.00861	.52685	.06237	.09876	B072-05T
64	B072-05J	.00047	.00794	.01231	.00006	.00213	.10649	.01278	.01666	B072-05J
65	B072-05G	.10183	10.604	.22038	.10127	.10849	.80143	.17454	.20465	B072-05G
66	B072-05H	.10217	10.588	.23411	.10193	.10891	.73997	.16755	.20151	B072-05H
67	B072-11T	.00037	.02834	.01540	.00229	.01048	.35582	.12187	.10789	B072-11T
68	Blank	.00000	-.00295	-.00012	-.00038	-.00005	.00026	.00013	-.00079	Blank
69	CCV6	.51079	62.601	.48352	2.3859	.51394	.49659	1.4735	2.6972	CCV6
70	CCB6	.00005	.03188	.00007	.00072	.00023	.00037	.00028	-.00104	CCB6
71	IPB041WB	.00020	.00680	.00017	-.00055	.00012	.00022	.00012	.04465*	IPB041WB
72	IPB041WL	.52217	53.524	.48483	.51313	.49816	.51398	.51458	.55363	IPB041WL
73	IPB041WC	.53332	54.473	.49432	.52528	.50720	.52083	.52578	.56596	IPB041WC
74	B155-03W	-.00056	289.58	.45087	-.00054	.00379	.00365	.00327	.00051	B155-03W
75	Blank	.00003	.24462	.00010	-.00019	.00045	.00008	.00013	-.00191	Blank
76	Blank	.00027	.05623	.00008	-.00029	.00888	.00037	.00014	.00845	Blank
77	CCV7	.50865	62.916	.48644	2.3536	.51401	.49379	1.4704	2.7040	CCV7
78	CCB7	.00008	.05171	-.00008	.00053	.00018	-.00009	.00044	-.00111	CCB7
79	WTB004SB	.00004	2208.5*	.00124	-.02283	.01358	.00079	.00021	.00193	WTB004SB
80	B487-03A	.63030	2094.5*	1.0046	.43369	.61195	.59102	.56877	14.928	B487-03A
81	B487-03	.00019	2074.2*	.54844	-.02386*	.13064	.09162	.02794	14.950	B487-03
82	B487-03J	.00015	491.92	.10711	-.00426	.02615	.01861	.00569	2.9407	B487-03J
83	B487-03M	.64566	2262.5*	1.0643	.42426	.64529	.61240	.55657	16.558	B487-03M
84	B487-03S	.65074	2142.1*	1.0668	.42130	.64369	.61301	.55840	16.561	B487-03S
85	B487-01	.00152	2010.8*	.63348	-.02650*	.17757	.25593	.03103	17.347	B487-01
86	B487-02	.00019	1952.7*	.55507	-.02514*	.13500	.09148	.03065	12.908	B487-02
87	B487-04	.00144	1952.2*	.48688	-.02460*	.17596	.06920	.02501	8.6522	B487-04
88	Blank	.00000	2.8155	-.00003	.00002	.00005	.00016	.00003	.00224	Blank
89	CCV8	.51092	63.308	.48721	2.3864	.51082	.49669	1.4811	2.7205	CCV8
90	CCB8	.00003	.89203*	-.00003	.00024	-.00019	.00049	.00018	-.00058	CCB8
91	WTB004SQ	.00015	512.19*	.00010	-.00468	.00250	.00022	.00003	-.00153	WTB004SQ
92	B487-03A	.54865	529.86	.57428	.49009	.53013	.52389	.54850	3.4777	B487-03A
93	B487-03T	.00050	476.92	.10629	-.00414	.02625	.01824	.00556	2.9299	B487-03T
94	B487-03J	.00076	100.65	.02119	-.00085	.00538	.00366	.00114	.55526	B487-03J
95	B487-03G	.10950	532.17	.21227	.09342	.13015	.12330	.11264	3.3220	B487-03G
96	B487-03H	.10994	535.33	.21320	.09267	.13100	.12291	.11198	3.3156	B487-03H
97	B487-01T	.00049	532.17	.12533	-.00408	.03629	.05150	.00615	3.4302	B487-01T
98	B487-02T	.00002	501.41	.11039	-.00466	.02733	.01810	.00631	2.5355	B487-02T
99	B487-04T	-.00009	507.86	.09603	-.00381	.03552	.01389	.00501	1.6903	B487-04T
100	Blank	.00005	1.0486	-.00009	.00026	.00007	-.00027	.00009	-.00132	Blank
101	CCV9	.51193	62.836	.48413	2.4302	.51152	.49896	1.4847	2.7247	CCV9
102	CCB9	.00000	.46493*	-.00008	.00024	-.00008	.00014	.00017	-.00132	CCB9

ID8B025 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 2/24/11 14:02

End Date: 2/24/11 20:55

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Book #: AD8-018

Instrument No.: D8

Analytical Batch: iD8B026

Analytical Sequence: S-11B6010 (V24)

Method File: 11B6010(V24)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-40-05	S30	SM1B14-0203
S1	MA	S31	0204
S2		ICV	~~2701~~ TH 2/24/11
S3		CCV	3805
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	MA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1,3	SM1B14-4104
S10		MRL2,4	1901
S11		ICV	SM1B14-4203
S12			
S16			
S17			
S18			
S20	SM1B14-3102		
S21	0101		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Comments:

B130-02W Mn>LDR -TI
BS26-01 diluted 5X due to yellow color (↑ Fe)
BS26-01 @ 5X, Cu>LDR
B248-01T @10X, Fe>LDR
CCV12 } ↑Zn
CCV11 }

Analyzed By: TH

Date: 2/24/11

SEQUENCE FILE : ID8B026

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8B026001	Blank	14:02	02/24/11	1.000
ID8B026002	S20	14:06	02/24/11	1.000
ID8B026003	S21	14:09	02/24/11	1.000
ID8B026004	S22	14:11	02/24/11	1.000
ID8B026005	S23	14:14	02/24/11	1.000
ID8B026006	S24	14:17	02/24/11	1.000
ID8B026007	S25	14:20	02/24/11	1.000
ID8B026008	S26	14:23	02/24/11	1.000
ID8B026009	S27	14:26	02/24/11	1.000
ID8B026010	S28	14:29	02/24/11	1.000
ID8B026011	S29	14:32	02/24/11	1.000
ID8B026012	S30	14:35	02/24/11	1.000
ID8B026013	S31	14:38	02/24/11	1.000
ID8B026014	ICV	14:40	02/24/11	1.000
ID8B026015	ICB	14:43	02/24/11	1.000
ID8B026016	MLB02401	14:46	02/24/11	1.000
ID8B026017	MLB02402	14:49	02/24/11	1.000
ID8B026018	ICSA1	14:52	02/24/11	1.000
ID8B026019	ICSAB1	14:55	02/24/11	1.000
ID8B026020	CCV1	14:57	02/24/11	1.000
ID8B026021	CCB1	15:00	02/24/11	1.000
ID8B026022	IPB035SQ	15:03	02/24/11	1.000
ID8B026023	IPB035SX	15:06	02/24/11	1.000
ID8B026024	IPB035SY	15:09	02/24/11	1.000
ID8B026025	B130-06A	15:11	02/24/11	1.000
ID8B026026	B130-06W	15:14	02/24/11	1.000
ID8B026027	B130-06J	15:17	02/24/11	5.000
ID8B026028	B130-06G	15:20	02/24/11	1.000
ID8B026029	B130-06H	15:22	02/24/11	1.000
ID8B026030	B130-02W	15:25	02/24/11	1.000
ID8B026031	Blank	15:28	02/24/11	1.000
ID8B026032	CCV2	15:31	02/24/11	1.000
ID8B026033	CCB2	15:33	02/24/11	1.000
ID8B026034	B130-03W	15:36	02/24/11	1.000
ID8B026035	B130-04W	15:39	02/24/11	1.000
ID8B026036	B130-05W	15:42	02/24/11	1.000
ID8B026037	B208-09T	15:44	02/24/11	5.000
ID8B026038	Blank	15:47	02/24/11	1.000
ID8B026039	CCV3	15:50	02/24/11	1.000
ID8B026040	CCB3	15:53	02/24/11	1.000
ID8B026041	IPB046SB	15:55	02/24/11	1.000
ID8B026042	IPB046SL	15:58	02/24/11	1.000
ID8B026043	IPB046SC	16:01	02/24/11	1.000
ID8B026044	B526-01A	16:03	02/24/11	5.000
ID8B026045	B526-01T	16:06	02/24/11	5.000
ID8B026046	B526-01J	16:09	02/24/11	25.00
ID8B026047	B526-01M	16:12	02/24/11	5.000
ID8B026048	B526-01S	16:14	02/24/11	5.000
ID8B026049	B248-01T	16:17	02/24/11	10.00
ID8B026050	Blank	16:21	02/24/11	1.000
ID8B026051	CCV4	16:24	02/24/11	1.000
ID8B026052	CCB4	16:26	02/24/11	1.000
ID8B026053	B248-01I	16:29	02/24/11	20.00
ID8B026054	B508-01	16:32	02/24/11	1.000

ID8B026055	B508-02	16:35	02/24/11	1.000
ID8B026056	B508-03	16:38	02/24/11	1.000
ID8B026057	B508-04	16:40	02/24/11	1.000
ID8B026058	B508-05	16:43	02/24/11	1.000
ID8B026059	B508-06	16:46	02/24/11	1.000
ID8B026060	B508-07	16:48	02/24/11	1.000
ID8B026061	B508-08	16:51	02/24/11	1.000
ID8B026062	Blank	16:54	02/24/11	1.000
ID8B026063	CCV5	16:57	02/24/11	1.000
ID8B026064	CCB5	17:00	02/24/11	1.000
ID8B026065	IPB043SB	17:03	02/24/11	1.000
ID8B026066	IPB043SL	17:05	02/24/11	1.000
ID8B026067	IPB043SC	17:08	02/24/11	1.000
ID8B026068	B208-02A	17:11	02/24/11	1.000
ID8B026069	B208-02	17:13	02/24/11	1.000
ID8B026070	B208-02J	17:16	02/24/11	5.000
ID8B026071	B208-02M	17:19	02/24/11	1.000
ID8B026072	B208-02S	17:21	02/24/11	1.000
ID8B026073	B208-08	17:24	02/24/11	1.000
ID8B026074	Blank	17:27	02/24/11	1.000
ID8B026075	CCV6	17:30	02/24/11	1.000
ID8B026076	CCB6	17:32	02/24/11	1.000
ID8B026077	B208-13	17:35	02/24/11	1.000
ID8B026078	A236-01	17:38	02/24/11	1.000
ID8B026079	A236-01T	17:41	02/24/11	10.00
ID8B026080	Blank	17:44	02/24/11	1.000
ID8B026081	MRLB2403	17:46	02/24/11	1.000
ID8B026082	MRLB2404	17:49	02/24/11	1.000
ID8B026083	CCV7	17:52	02/24/11	1.000
ID8B026084	CCB7	17:55	02/24/11	1.000
ID8B026085	IPB044WB	17:58	02/24/11	1.000
ID8B026086	IPB044WL	18:01	02/24/11	1.000
ID8B026087	IPB044WC	18:03	02/24/11	1.000
ID8B026088	B196-12A	18:06	02/24/11	1.000
ID8B026089	B196-12	18:08	02/24/11	1.000
ID8B026090	B196-12J	18:11	02/24/11	5.000
ID8B026091	B196-12M	18:14	02/24/11	1.000
ID8B026092	B196-12S	18:16	02/24/11	1.000
ID8B026093	B193-13	18:19	02/24/11	1.000
ID8B026094	Blank	18:22	02/24/11	1.000
ID8B026095	CCV8	18:24	02/24/11	1.000
ID8B026096	CCB8	18:27	02/24/11	1.000
ID8B026097	B173-04	18:30	02/24/11	1.000
ID8B026098	B173-05	18:33	02/24/11	1.000
ID8B026099	B173-06	18:36	02/24/11	1.000
ID8B026100	B204-05	18:38	02/24/11	1.000
ID8B026101	B204-07	18:41	02/24/11	1.000
ID8B026102	B204-09	18:44	02/24/11	1.000
ID8B026103	B180-01	18:47	02/24/11	1.000
ID8B026104	B203-01	18:50	02/24/11	1.000
ID8B026105	B201-01	18:52	02/24/11	1.000
ID8B026106	Blank	18:55	02/24/11	1.000
ID8B026107	CCV9	18:58	02/24/11	1.000
ID8B026108	CCB9	19:01	02/24/11	1.000
ID8B026109	B201-01M	19:03	02/24/11	1.000
ID8B026110	B201-01S	19:06	02/24/11	1.000
ID8B026111	B525-01	19:09	02/24/11	1.000

ID8B026112	B526-01A	19:11	02/24/11	50.00
ID8B026113	B526-01T	19:14	02/24/11	50.00
ID8B026114	B526-01J	19:17	02/24/11	250.0
ID8B026115	B516-03	19:19	02/24/11	1.000
ID8B026116	B516-04	19:22	02/24/11	1.000
ID8B026117	Blank	19:25	02/24/11	1.000
ID8B026118	CCV10	19:28	02/24/11	1.000
ID8B026119	CCB10	19:30	02/24/11	1.000
ID8B026120	IPB045SB	19:33	02/24/11	1.000
ID8B026121	IPB045SL	19:36	02/24/11	1.000
ID8B026122	IPB045SC	19:39	02/24/11	1.000
ID8B026123	B225-15A	19:41	02/24/11	1.000
ID8B026124	B225-15	19:44	02/24/11	1.000
ID8B026125	B225-15J	19:46	02/24/11	5.000
ID8B026126	B225-15M	19:49	02/24/11	1.000
ID8B026127	B225-15S	19:52	02/24/11	1.000
ID8B026128	B225-01	19:54	02/24/11	1.000
ID8B026129	Blank	19:57	02/24/11	1.000
ID8B026130	CCV11	20:00	02/24/11	1.000
ID8B026131	CCB11	20:02	02/24/11	1.000
ID8B026132	B225-02	20:05	02/24/11	1.000
ID8B026133	B225-03	20:08	02/24/11	1.000
ID8B026134	B225-04	20:11	02/24/11	1.000
ID8B026135	B225-05	20:14	02/24/11	1.000
ID8B026136	B225-06	20:16	02/24/11	1.000
ID8B026137	B225-07	20:19	02/24/11	1.000
ID8B026138	B225-08	20:22	02/24/11	1.000
ID8B026139	B225-09	20:24	02/24/11	1.000
ID8B026140	B225-10	20:27	02/24/11	1.000
ID8B026141	Blank	20:30	02/24/11	1.000
ID8B026142	CCV12	20:33	02/24/11	1.000
ID8B026143	CCB12	20:35	02/24/11	1.000
ID8B026144	B225-11	20:38	02/24/11	1.000
ID8B026145	B225-12	20:41	02/24/11	1.000
ID8B026146	B225-13	20:44	02/24/11	1.000
ID8B026147	B225-14	20:47	02/24/11	1.000
ID8B026148	Blank	20:49	02/24/11	1.000
ID8B026149	CCV13	20:52	02/24/11	1.000
ID8B026150	CCB13	20:55	02/24/11	1.000

VERSON : 11A UNIT : %

SUMMARY of ICV and CCV : ID8B026

DATE : 02/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	97	103	99	99	98	99	101	98	92	101	99	96	106	92	93	98	99	98	102	100	105	96	92	98	98	96	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	101	----	----	----	----	----	----	95	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	101	105	109	107	98	106	98	94	96	95	110	93	95	115	94	92	103	100	105	108	111	110	99	85	100	98	98	108
CCV1	107	101	105	99	97	98	98	100	98	96	101	98	96	106	92	92	100	99	98	104	101	104	97	93	103	97	97	108
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	106	101	104	99	97	98	97	100	97	95	100	98	95	105	92	92	100	98	98	103	100	103	97	92	102	97	96	107
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	106	99	103	98	97	97	96	101	97	95	100	98	95	105	92	92	100	98	97	102	99	103	96	91	102	97	96	107
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	107	100	103	99	97	98	97	99	97	95	101	98	95	106	91	92	100	99	97	102	100	103	96	91	103	97	96	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

8402

B508-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	106	100	103	98	97	97	97	101	97	95	100	98	95	105	92	92	100	98	97	102	100	103	96	91	102	97	96	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	107	101	105	98	97	98	99	100	98	95	100	99	95	104	92	92	100	98	96	104	100	102	96	93	103	98	97	108
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	108	101	105	99	98	98	99	101	98	95	101	100	95	105	93	92	100	98	96	103	100	102	95	93	102	98	97	108
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B193-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	106	100	105	99	98	99	101	102	100	95	100	100	95	105	94	94	99	98	98	104	101	103	97	94	101	98	99	108
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B180-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	110	102	107	100	100	100	101	103	100	96	103	102	96	106	95	94	101	99	98	105	102	104	97	95	103	100	100	110
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B525-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	110	102	108	101	100	100	103	104	101	96	102	103	96	105	97	96	100	99	99	106	103	104	97	96	102	100	100	110
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	110	102	108	100	100	100	103	104	102	95	102	104	96	105	97	95	100	99	98	105	103	104	96	97	103	100	100	111*
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	109	101	109	100	101	101	106	106	104	95	102	104	95	105	98	97	99	99	100	106	104	105	98	98	101	100	102	111*
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	110	102	110	101	101	101	106	105	104	96	103	103	95	105	98	97	99	99	100	107	104	105	98	98	101	100	102	111*
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B026 (WATER) DATE : 02/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	12.0	1.09	-1.01	.400	.100	6.02	.090	-15.3	.260	-.020	.520	4.51	.380	.170	6.48	.220	.500	.020	48.9	.940	.130	-35.9	.100	.030	.160	.020	.090	-1.24
MLB02401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.17	.150	3.91	-.060	24.4	1.85	----	.920	-1.70	1.81	----	2.96	7.03	----	.640	-1.83	-.430	-60.3	2.16	.410	-27.0	-.460	1.07	3.13	2.54	-1.15	-.110
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	79.4	1.01	-.420	.690	.160	6.16	.250	16.7	.490	.080	.590	30.4	-.360	-.220	23.8	.270	.710	.120	55.6	.400	.220	-16.2	.130	-.210	.180	-.170	.140	-1.27
IPB035SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	23.6	1.12	-.130	1.30	.270	5.84	.180	66.7	.510	.140	.790	8.61	.190	.070	22.7	.630	.580	.100	32.6	-.130	-.120	-48.1	.170	-.020	.200	.190	.100	2.43
B130-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	22.5	1.51	-.460	1.000	.190	5.90	.280	57.4	.450	.250	.690	9.76	.420	-.220	15.6	.350	.800	.350	8.61	.970	.040	-57.3	.170	.620	.430	.000	.180	2.31
IPB046SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	21.1	1.65	.400	1.50	.420	5.75	.120	64.9	.500	.060	2.28	21.2	-.180	.130	19.6	.850	.650	.300	26.0	.310	.030	-58.6	.270	.040	.080	.400	.040	1.68
B248-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B508-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	24.1	1.43	.230	1.24	.340	4.79	.150	59.3	.590	.120	.910	5.56	.110	-.160	21.7	.640	.880	.220	-3.62	.630	-.020	-66.1	.160	-.210	.330	-.040	.140	1.92
IPB043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	30.5	1.30	.200	1.30	.410	5.85	.330	67.9	.650	.090	.960	9.98	.470	.100	25.6	.580	1.000	.450	34.5	.920	.170	-57.8	.230	.150	.150	.210	.230	2.51
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.5	1.63	-1.06	1.55	.710	5.66	.290	78.7	.800	.180	1.02	9.58	.260	.610	32.7	1.21	.840	.180	23.8	.300	.090	-55.0	.250	.460	.410	.080	.280	1.59
IPB044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B193-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	24.9	1.48	.020	1.10	.290	5.83	.450	59.5	.590	.220	.700	4.36	.360	-.060	15.9	.360	1.06	.360	5.14	.850	.010	-52.0	.180	.550	.550	.330	.200	2.21
B173-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B180-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	30.2	1.16	-.100	2.61	.430	5.35	.330	257	.740	.190	.870	6.40	.600	.020	24.2	.800	1.02	.550	14.4	.410	.060	-45.2	.260	.900	.280	.080	.340	10.0
B201-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B525-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	32.8	1.07	-.180	3.19	.480	5.60	.500	253	.870	.260	.900	7.45	.550	.160	23.3	.830	1.12	.750	9.26	.790	.100	-46.3	.310	.580	.630	.470	.390	9.93
IPB045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	20.1	1.22	-.510	2.23	.320	5.20	.290	243	.450	.050	.610	8.84	.860	.080	18.4	.710	.840	.420	8.42	.310	-.010	-58.4	.160	.210	.360	.760	.210	9.88
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	41.0	.620	.710	2.69	.590	5.36	.600	298	1.02	.280	.910	13.5	.700	.170	23.5	1.16	1.19	.700	18.0	1.16	.200	-56.7	.330	.710	.360	.210	.370	12.0
B225-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	29.2	1.12	1.17	2.25	.420	5.33	.370	252	.620	.280	.700	9.05	.540	.410	30.9	.960	.960	.290	4.07	.850	.060	-62.9	.260	.330	.170	.360	.220	10.8

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B026 (SOIL) DATE : 02/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	12.0	1.09	-1.01	.400	.100	6.02	.090	-15.3	.260	-.020	.520	4.51	.380	.170	6.48	.220	.500	.020	48.9	.940	.130	-35.9	.100	.030	.160	.020	.090	-1.24
MLB02401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.17	.150	3.91	-.060	24.4	1.85	----	.920	-1.70	1.81	----	2.96	7.03	----	.640	-1.83	-.430	-60.3	2.16	.410	-27.0	-.460	1.07	3.13	2.54	-1.15	-.110
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	79.4	1.01	-.420	.690	.160	6.16	.250	16.7	.490	.080	.590	30.4	-.360	-.220	23.8	.270	.710	.120	55.6	.400	.220	-16.2	.130	-.210	.180	-.170	.140	-1.27
IPB035SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	23.6	1.12	-.130	1.30	.270	5.84	.180	66.7	.510	.140	.790	8.61	.190	.070	22.7	.630	.580	.100	32.6	-.130	-.120	-48.1	.170	-.020	.200	.190	.100	2.43
B130-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	22.5	1.51	-.460	1.000	.190	5.90	.280	57.4	.450	.250	.690	9.76	.420	-.220	15.6	.350	.800	.350	8.61	.970	.040	-57.3	.170	.620	.430	.000	.180	2.31
IPB046SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	21.1	1.65	.400	1.50	.420	5.75	.120	64.9	.500	.060	2.28	21.2	-.180	.130	19.6	.850	.650	.300	26.0	.310	.030	-58.6	.270	.040	.080	.400	.040	1.68
B248-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B508-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	24.1	1.43	.230	1.24	.340	4.79	.150	59.3	.590	.120	.910	5.56	.110	-.160	21.7	.640	.880	.220	-3.62	.630	-.020	-66.1	.160	-.210	.330	-.040	.140	1.92
IPB043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	30.5	1.30	.200	1.30	.410	5.85	.330	67.9	.650	.090	.960	9.98	.470	.100	25.6	.580	1.000	.450	34.5	.920	.170	-57.8	.230	.150	.150	.210	.230	2.51
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.5	1.63	-1.06	1.55	.710	5.66	.290	78.7	.800	.180	1.02	9.58	.260	.610	32.7	1.21	.840	.180	23.8	.300	.090	-55.0	.250	.460	.410	.080	.280	1.59
IPB044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B193-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	24.9	1.48	.020	1.10	.290	5.83	.450	59.5	.590	.220	.700	4.36	.360	-.060	15.9	.360	1.06	.360	5.14	.850	.010	-52.0	.180	.550	.550	.330	.200	2.21
B173-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B180-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	30.2	1.16	-.100	2.61	.430	5.35	.330	257	.740	.190	.870	6.40	.600	.020	24.2	.800	1.02	.550	14.4	.410	.060	-45.2	.260	.900	.280	.080	.340	10.0
B201-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B525-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	32.8	1.07	-.180	3.19	.480	5.60	.500	253	.870	.260	.900	7.45	.550	.160	23.3	.830	1.12	.750	9.26	.790	.100	-46.3	.310	.580	.630	.470	.390	9.93
IPB045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	20.1	1.22	-.510	2.23	.320	5.20	.290	243	.450	.050	.610	8.84	.860	.080	18.4	.710	.840	.420	8.42	.310	-.010	-58.4	.160	.210	.360	.760	.210	9.88
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	41.0	.620	.710	2.69	.590	5.36	.600	298	1.02	.280	.910	13.5	.700	.170	23.5	1.16	1.19	.700	18.0	1.16	.200	-56.7	.330	.710	.360	.210	.370	12.0
B225-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	29.2	1.12	1.17	2.25	.420	5.33	.370	252	.620	.280	.700	9.05	.540	.410	30.9	.960	.960	.290	4.07	.850	.060	-62.9	.260	.330	.170	.360	.220	10.8

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8B026001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8B026002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8B026003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8B026004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8B026005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8B026006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8B026007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8B026008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8B026009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8B026010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8B026011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8B026012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8B026013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8B026014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8B026015			1	☒	3XIDL	None
16	27	2	3	3	QC	MLB02401		ID8B026016			1	☒	MRL-EMAX	None
17	3	2	3	1	QC	MLB02402		ID8B026017			1	☒	MRL-AFCEE	None
18	4	2	4	1	QC	ICSA1		ID8B026018			1	☒	ICSA	None
19	5	2	5	1	QC	ICSAB1		ID8B026019			1	☒	ICSAB	None
20	6	2	6	1	QC	CCV1		ID8B026020			1	☒	CCV	None
21	7	2	7	1	QC	CCB1		ID8B026021			1	☒	3XIDL	None
22	8	2	8	1	QC	IPB035SQ		ID8B026022			1	☒	1/2LOQ	None
23	9	2	9	1	QC	IPB035SX		ID8B026023			1	☒	LCS	None
24	10	2	10	1	QC	IPB035SY		ID8B026024			1	☒	LCS	None
25	11	2	11	1	Unk	B130-06A		ID8B026025			1	☒	unk	---
26	12	2	12	1	Unk	B130-06W		ID8B026026			1	☒	unk	---
27	13	2	1	2	Unk	B130-06J		ID8B026027			1	☒	unk	---
28	14	2	2	2	Unk	B130-06G		ID8B026028			1	☒	unk	---
29	15	2	3	2	Unk	B130-06H		ID8B026029			1	☒	unk	---
30	16	2	4	2	Unk	B130-02W		ID8B026030			1	☒	unk	---
31	17	2	5	2	Blank	Blank		ID8B026031			1	☐		---
32	18	2	6	2	QC	CCV2		ID8B026032			1	☒	CCV	None
33	19	2	7	2	QC	CCB2		ID8B026033			1	☒	3XIDL	None
34	20	2	8	2	Unk	B130-03W		ID8B026034			1	☒	unk	---
35	21	2	9	2	Unk	B130-04W		ID8B026035			1	☒	unk	---
36	22	2	10	2	Unk	B130-05W		ID8B026036			1	☒	unk	---
37	23	2	11	2	Unk	B208-09T	5X	ID8B026037			1	☒	unk	---
38	24	2	12	2	Blank	Blank		ID8B026038			1	☐		---
39	25	2	1	3	QC	CCV3		ID8B026039			1	☒	CCV	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	26	2	2	3	QC	CCB3		ID8B026040			1	☒	3XIDL	None
41	28	2	4	3	QC	IPB046SB		ID8B026041			1	☒	1/2LOQ	None
42	29	2	5	3	QC	IPB046SL		ID8B026042			1	☒	LCS	None
43	30	2	6	3	QC	IPB046SC		ID8B026043			1	☒	LCS	None
44	31	2	7	3	Unk	B526-01A	5X YELLOW	ID8B026044			1	☒	unk	---
45	32	2	8	3	Unk	B526-01T	5X YELLOW	ID8B026045			1	☒	unk	---
46	33	2	9	3	Unk	B526-01J	25X YELLOW	ID8B026046			1	☒	unk	---
47	34	2	10	3	Unk	B526-01M	5X YELLOW	ID8B026047			1	☒	unk	---
48	35	2	11	3	Unk	B526-01S	5X YELLOW	ID8B026048			1	☒	unk	---
49	36	2	12	3	Unk	B248-01T	10X YELLOW	ID8B026049			1	☒	unk	---
50	37	2	1	4	Blank	Blank		ID8B026050			1	☐		---
51	38	2	2	4	QC	CCV4		ID8B026051			1	☒	CCV	None
52	39	2	3	4	QC	CCB4		ID8B026052			1	☒	3XIDL	None
53	134	4	2	2	Unk	B248-01I	20X	ID8B026053			1	☒	unk	---
54	40	2	4	4	Unk	B508-01		ID8B026054			1	☒	unk	---
55	41	2	5	4	Unk	B508-02		ID8B026055			1	☒	unk	---
56	42	2	6	4	Unk	B508-03		ID8B026056			1	☒	unk	---
57	43	2	7	4	Unk	B508-04		ID8B026057			1	☒	unk	---
58	44	2	8	4	Unk	B508-05		ID8B026058			1	☒	unk	---
59	45	2	9	4	Unk	B508-06		ID8B026059			1	☒	unk	---
60	46	2	10	4	Unk	B508-07		ID8B026060			1	☒	unk	---
61	47	2	11	4	Unk	B508-08		ID8B026061			1	☒	unk	---
62	48	2	12	4	Blank	Blank		ID8B026062			1	☐		---
63	49	2	1	5	QC	CCV5		ID8B026063			1	☒	CCV	None
64	50	2	2	5	QC	CCB5		ID8B026064			1	☒	3XIDL	None
65	83	3	11	2	QC	IPB043SB		ID8B026065			1	☒	1/2LOQ	None
66	84	3	12	2	QC	IPB043SL		ID8B026066			1	☒	LCS	None
67	85	3	1	3	QC	IPB043SC		ID8B026067			1	☒	LCS	None
68	86	3	2	3	Unk	B208-02A	dried & sieved	ID8B026068			1	☒	unk	---
69	87	3	3	3	Unk	B208-02	dried & sieved	ID8B026069			1	☒	unk	---
70	88	3	4	3	Unk	B208-02J	dried & sieved	ID8B026070			1	☒	unk	---
71	89	3	5	3	Unk	B208-02M	dried & sieved	ID8B026071			1	☒	unk	---
72	90	3	6	3	Unk	B208-02S	dried & sieved	ID8B026072			1	☒	unk	---
73	91	3	7	3	Unk	B208-08		ID8B026073			1	☒	unk	---
74	92	3	8	3	Blank	Blank		ID8B026074			1	☐		---
75	93	3	9	3	QC	CCV6		ID8B026075			1	☒	CCV	None
76	94	3	10	3	QC	CCB6		ID8B026076			1	☒	3XIDL	None
77	95	3	11	3	Unk	B208-13	dried & sieved	ID8B026077			1	☒	unk	---
78	96	3	12	3	Unk	A236-01		ID8B026078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	97	3	1	4	Unk	A236-01T	10X	ID8B026079			1	☒	unk	---
80	98	3	2	4	Blank	Blank		ID8B026080			1	☐		---
81	99	3	3	4	QC	MRLB2403		ID8B026081			1	☒	MRL-EMAX	None
82	100	3	4	4	QC	MRLB2404		ID8B026082			1	☒	MRL-AFCEE	None
83	101	3	5	4	QC	CCV7		ID8B026083			1	☒	CCV	None
84	102	3	6	4	QC	CCB7		ID8B026084			1	☒	3XIDL	None
85	51	2	3	5	QC	IPB044WB		ID8B026085			1	☒	1/2LOQ	None
86	52	2	4	5	QC	IPB044WL		ID8B026086			1	☒	LCS	None
87	53	2	5	5	QC	IPB044WC		ID8B026087			1	☒	LCS	None
88	54	2	6	5	Unk	B196-12A		ID8B026088			1	☒	unk	---
89	55	2	7	5	Unk	B196-12		ID8B026089			1	☒	unk	---
90	56	2	8	5	Unk	B196-12J		ID8B026090			1	☒	unk	---
91	57	2	9	5	Unk	B196-12M		ID8B026091			1	☒	unk	---
92	58	2	10	5	Unk	B196-12S		ID8B026092			1	☒	unk	---
93	59	2	11	5	Unk	B193-13		ID8B026093			1	☒	unk	---
94	60	2	12	5	Blank	Blank		ID8B026094			1	☐		---
95	61	3	1	1	QC	CCV8		ID8B026095			1	☒	CCV	None
96	62	3	2	1	QC	CCB8		ID8B026096			1	☒	3XIDL	None
97	63	3	3	1	Unk	B173-04		ID8B026097			1	☒	unk	---
98	64	3	4	1	Unk	B173-05		ID8B026098			1	☒	unk	---
99	65	3	5	1	Unk	B173-06		ID8B026099			1	☒	unk	---
100	66	3	6	1	Unk	B204-05		ID8B026100			1	☒	unk	---
101	67	3	7	1	Unk	B204-07		ID8B026101			1	☒	unk	---
102	68	3	8	1	Unk	B204-09		ID8B026102			1	☒	unk	---
103	69	3	9	1	Unk	B180-01		ID8B026103			1	☒	unk	---
104	70	3	10	1	Unk	B203-01		ID8B026104			1	☒	unk	---
105	71	3	11	1	Unk	B201-01		ID8B026105			1	☒	unk	---
106	72	3	12	1	Blank	Blank		ID8B026106			1	☐		---
107	73	3	1	2	QC	CCV9		ID8B026107			1	☒	CCV	None
108	74	3	2	2	QC	CCB9		ID8B026108			1	☒	3XIDL	None
109	75	3	3	2	Unk	B201-01M		ID8B026109			1	☒	unk	---
110	76	3	4	2	Unk	B201-01S		ID8B026110			1	☒	unk	---
111	77	3	5	2	Unk	B525-01		ID8B026111			1	☒	unk	---
112	135	4	3	2	Unk	B526-01A	50X	ID8B026112			1	☒	unk	---
113	136	4	4	2	Unk	B526-01T	50X	ID8B026113			1	☒	unk	---
114	137	4	5	2	Unk	B526-01J	250X	ID8B026114			1	☒	unk	---
115	78	3	6	2	Unk	B516-03		ID8B026115			1	☒	unk	---
116	79	3	7	2	Unk	B516-04		ID8B026116			1	☒	unk	---
117	80	3	8	2	Blank	Blank		ID8B026117			1	☐		---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	81	3	9	2	QC	CCV10		ID8B026118			1	☒	CCV	None
119	82	3	10	2	QC	CCB10		ID8B026119			1	☒	3XIDL	None
120	103	3	7	4	QC	IPB045SB		ID8B026120			1	☒	1/2LOQ	None
121	104	3	8	4	QC	IPB045SL		ID8B026121			1	☒	LCS	None
122	105	3	9	4	QC	IPB045SC		ID8B026122			1	☒	LCS	None
123	106	3	10	4	Unk	B225-15A		ID8B026123			1	☒	unk	---
124	107	3	11	4	Unk	B225-15		ID8B026124			1	☒	unk	---
125	108	3	12	4	Unk	B225-15J		ID8B026125			1	☒	unk	---
126	109	3	1	5	Unk	B225-15M		ID8B026126			1	☒	unk	---
127	110	3	2	5	Unk	B225-15S		ID8B026127			1	☒	unk	---
128	111	3	3	5	Unk	B225-01		ID8B026128			1	☒	unk	---
129	112	3	4	5	Blank	Blank		ID8B026129			1	☐		---
130	113	3	5	5	QC	CCV11		ID8B026130			1	☒	CCV	None
131	114	3	6	5	QC	CCB11		ID8B026131			1	☒	3XIDL	None
132	115	3	7	5	Unk	B225-02		ID8B026132			1	☒	unk	---
133	116	3	8	5	Unk	B225-03		ID8B026133			1	☒	unk	---
134	117	3	9	5	Unk	B225-04		ID8B026134			1	☒	unk	---
135	118	3	10	5	Unk	B225-05		ID8B026135			1	☒	unk	---
136	119	3	11	5	Unk	B225-06		ID8B026136			1	☒	unk	---
137	120	3	12	5	Unk	B225-07		ID8B026137			1	☒	unk	---
138	121	4	1	1	Unk	B225-08		ID8B026138			1	☒	unk	---
139	122	4	2	1	Unk	B225-09		ID8B026139			1	☒	unk	---
140	123	4	3	1	Unk	B225-10		ID8B026140			1	☒	unk	---
141	124	4	4	1	Blank	Blank		ID8B026141			1	☐		---
142	125	4	5	1	QC	CCV12	Zn	ID8B026142			1	☒	CCV	None
143	126	4	6	1	QC	CCB12		ID8B026143			1	☒	3XIDL	None
144	127	4	7	1	Unk	B225-11		ID8B026144			1	☒	unk	---
145	128	4	8	1	Unk	B225-12		ID8B026145			1	☒	unk	---
146	129	4	9	1	Unk	B225-13		ID8B026146			1	☒	unk	---
147	130	4	10	1	Unk	B225-14		ID8B026147			1	☒	unk	---
148	131	4	11	1	Blank	Blank		ID8B026148			1	☐		---
149	132	4	12	1	QC	CCV13		ID8B026149			1	☒	CCV	None
150	133	4	1	2	QC	CCB13		ID8B026150			1	☒	3XIDL	None

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Status

Revision	24	
Date Created	8/14/2006 16:36:29	by admin
Date Modified	2/24/2011 10:31:55	by admin
Date Calibrated	2/24/2011 14:40:45	
Current Status	by admin	
Number of Elements	31	
Number of Wavelengths	33	
Locked	No	
Notes:		

Analysis Preferences

Sample Options	# Repeats:	3			
	Delay Time:	0.0 seconds			
	Sample Flush Time:	11 seconds			
Source	Sample Introduction	Nebulizer			
	Plasma View:	Line Selection			
Analysis Maximum Integration Times (sec)	Low WL Range	Axial	15	Radial	15
	High WL Range:	Axial	10	Radial	5
Calibration Mode	Concentration				
Trailing Full Frame Options	Intelli-Frame:		No		
	Max Integration Time (sec):		30		
	WL Range:		Low		
	View:		Axial		
Auto-Increment Sample Names:	Yes				
Use Sample Weight Corrections:	No				

Source Settings

Nebulizer Pump	Flush Pump Rate (rpm):	75	
	Analysis Pump Rate (rpm):	23	
	Pump Relaxation Time (sec	2	
	Pump Tubing Type:	Tygon Orange/White	
RF Power:	1150	W	
Nebulizer Flow:	0.55	L/min	
Auxiliary Gas:	0.5	L/min	

ID8B026 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00113	.00002	-.00001	.00029	.00011	.00028	-.00003	.00086	-.00001	-.00092	Blank
2	S20					.86570		.10981				S20
3	S21					8.6719		1.0735				S21
4	S22				.50672						.15871	S22
5	S23				4.9122						1.6478	S23
6	S24						.09305					S24
7	S25						.96091					S25
8	S26	.27645							.88361	.12825		S26
9	S27	9.7475							8.1124	1.2272		S27
10	S28		.00552									S28
11	S29		.05453									S29
12	S30			.00130								S30
13	S31			.00517								S31
14	ICV	107.00	1.4609	1.0337	1.9763	1.4873	2.4483	1.9860	75.592	2.4391	.92089	ICV
15	ICB	.01203	.00109	-.00101	.00040	.00010	.00602	.00009	-.01535	.00026	-.00002	ICB
16	MLB02401	.22209	.10131	.00940	.01003	.00989	.01237*	.01033	.98888	.01042	.00911	MLB02401
17	MLB02402	.22974	.05174	.00977	.00540	.00419	.09636	.00521	.50966	.01044	.00906	MLB02402
18	ICSA1	402.31	.00717	.00015	.00391	-.00006	.02442	.00185	474.10	.00092	-.00170	ICSA1
19	ICSAB1	403.32	1.0531	1.0865	.53500	.49121	.52832	.98135	468.61	.48233	.47253	ICSAB1
20	CCV1	106.65	1.5224	1.0525	1.9794	1.4580	2.4593	1.9673	75.172	2.4398	.95518	CCV1
21	CCB1	.07940	.00101	-.00042	.00069	.00016	.00616	.00025	.01675	.00049	.00008	CCB1
22	IPB035SQ	.10207*	.00186	-.00167	.00156	.00020	.00798	-.00014	.26766	.00113	-.00008	IPB035SQ
23	IPB035SX	5.4087	2.5236	.52282	.51551	.51427	.48105	.51868	51.879	.52496	.50765	IPB035SX
24	IPB035SY	5.3743	2.4740	.51648	.51351	.51190	.47847	.51432	52.369	.52303	.50546	IPB035SY
25	B130-06A	111.79	2.3978	.62643	1.5445	.51783	.54194	.50763	51.024	.79563	.56514	B130-06A
26	B130-06W	106.12	.01553	.10363	1.0468	.00467	.09527	.00187	.31342	.28679	.05361	B130-06W
27	B130-06J	22.894	.00383	.01996	.21243	.00094	.01725	-.00033	.06396	.05807	.01049	B130-06J
28	B130-06G	177.01	2.0280	.61093	2.0673	.50664	.54430	.50040	50.420	.75513	.54440	B130-06G
29	B130-06H	172.16	2.0903	.60934	2.3639	.50864	.55816	.49655	50.815	.75876	.59048	B130-06H
30	B130-02W	88.408	.00836	.05981	2.4884	.01411	.04888	.00012	8.0501	.13239	.29508	B130-02W
31	Blank	.07967	.00164	-.00061	.00419	.00033	.00171	.00041	1.3301	.00086	.00031	Blank
32	CCV2	106.42	1.5091	1.0384	1.9766	1.4547	2.4403	1.9413	75.319	2.4193	.95125	CCV2
33	CCB2	.02357	.00112	-.00013	.00130	.00027*	.00584	.00018	.06668	.00051	.00014	CCB2
34	B130-03W	70.397	.01406	.07067	.36438	.00402	.04464	.00056	4.4427	.50013	.02913	B130-03W
35	B130-04W	99.808	.04121	.10602	.82203	.00524	.05628	-.00039	6.0734	.20406	.07867	B130-04W
36	B130-05W	84.771	.01178	.05421	.63384	.00415	.06085	.00041	.51067	.25605	.04265	B130-05W
37	B208-09T	17.837	.00443	.04236	.32628	.00230	.01727	.00396	7.6204	.07317	.04023	B208-09T
38	Blank	.02385	.00194	-.00222	.00098	-.00003	-.00048	-.00023	-.00386	.00022	-.00004	Blank
39	CCV3	106.08	1.4888	1.0285	1.9558	1.4555	2.4342	1.9286	75.722	2.4248	.95067	CCV3
40	CCB3	.02251	.00151	-.00046	.00100	.00019	.00590	.00028	.05744	.00045	.00025	CCB3
41	IPB046SB	.04422	.00147	-.00226	.00068	.00037	.00312	.00001	.02402	.00103	.00001	IPB046SB
42	IPB046SL	5.2916	2.4692	.51117	.50688	.50878	.46885	.51185	51.507	.51890	.50396	IPB046SL
43	IPB046SC	5.2474	2.4370	.50288	.50028	.50076	.46341	.50052	50.415	.50905	.49542	IPB046SC
44	B526-01A	13.306	2.5607	.56355	.86340	.51944	.52868	.51436	138.06	.76721	.51621	B526-01A
45	B526-01T	7.3511	.04536	.01364	.34929	.00026	.03121	.00288	88.937	.25575	.01124	B526-01T
46	B526-01J	1.4302	.00941	.00256	.06895	.00006	.00734	.00048	17.881	.05129	.00210	B526-01J
47	B526-01M	7.1101	.52148	.11701	.34242	.10453	.15320	.10623	58.934	1.2767	.12571	B526-01M
48	B526-01S	10.577	.50576	.13798	.32159	.10248	.13590	.10284	62.064	.22856	.11903	B526-01S
49	B248-01T	2.2993	.03798	.10008	8.2440	.00002	.11599	.00622	2.4112	1.0510	.05328	B248-01T
50	Blank	.00530	.00051	-.00176	.00241	.00000	.00058	-.00006	.00430	.00038	-.00004	Blank
51	CCV4	107.10	1.5001	1.0335	1.9736	1.4575	2.4439	1.9311	74.592	2.4237	.95113	CCV4
52	CCB4	.02105	.00165	.00040	.00150	.00042*	.00575	.00012	.06488	.00050	.00006	CCB4
53	B248-01I	1.1226	.01880	.04751	4.2109	-.00004	.05460	.00062	1.1851	.52874	.02636	B248-01I
54	B508-01	.32124	.00022	.01079	.04089	.00005	.01639	.00053	13.340	.00692	.00037	B508-01

55	B508-02	1.5299	.00156	.01058	.10177	.00015	.04912	.00137	48.676	.01081	.00257	B508-02
56	B508-03	2.2774	.00167	.03407	.03986	.00012	.02762	.00177	103.10	.01672	.00279	B508-03
57	B508-04	.18836	.00062	-.00095	.01972	-.00002	.01164	.00295	6.3629	.00250	.00026	B508-04
58	B508-05	.99454	.00297	.05046	.04213	.00002	.02354	.00257	22.535	.01217	.00603	B508-05
59	B508-06	.88725	.00094	.00038	.10830	-.00001	.02738	.00174	9.3091	.00890	.00175	B508-06
60	B508-07	.52508	.00410	.00183	.21441	.00003	.12159	.00935	33.527	.05053	.00221	B508-07
61	B508-08	.07085	.00017	-.00040	.08932	.00006	.07428	.00008	14.618	.00357	.00014	B508-08
62	Blank	.00080	.00026	-.00052	.00039	-.00003	.00012	-.00002	.00139	.00006	-.00004	Blank
63	CCV5	106.36	1.4938	1.0283	1.9662	1.4555	2.4336	1.9301	75.399	2.4330	.95144	CCV5
64	CCB5	.02409	.00143	.00023	.00124	.00034*	.00479	.00015	.05933	.00059	.00012	CCB5
65	IPB043SB	.01524	.00135	-.00137	.00065	.00010	.00041	-.00012	-.02394	.00058	-.00009	IPB043SB
66	IPB043SL	5.1646	2.3690	.49236	.48698	.48606	.44832	.48966	49.304	.49582	.48048	IPB043SL
67	IPB043SC	5.1171	2.3273	.48676	.48167	.48180	.44126	.48211	48.306	.48920	.47548	IPB043SC
68	B208-02A	94.850	2.4129	.58324	1.8630	.51946	.49106	.58985	93.082	.63350	.54774	B208-02A
69	B208-02	90.413	.01219	.05701	1.4000	.00776	.03426	.09370	44.600	.12914	.04127	B208-02
70	B208-02J	18.703	.00287	.01135	.27630	.00159	.00774	.01922	9.0016	.02622	.00804	B208-02J
71	B208-02M	145.23	1.9902	.54197	1.9417	.48624	.45019	.55660	92.646	.64308	.51047	B208-02M
72	B208-02S	152.03	2.0321	.54935	2.0264	.49082	.46039	.56502	95.287	.65532	.51949	B208-02S
73	B208-08	89.799	.01836	.07024	1.1224	.00711	.03445	.00657	119.02	.15062	.04568	B208-08
74	Blank	.07072	.00106	-.00041	.00051	.00000	.00071	.00013	.02133	.00024	.00014	Blank
75	CCV6	107.06	1.5135	1.0503	1.9684	1.4589	2.4451	1.9829	75.307	2.4505	.94877	CCV6
76	CCB6	.03054	.00130	.00020	.00130	.00041*	.00585	.00033	.06791	.00065	.00009	CCB6
77	B208-13	86.912	.00949	.09422	1.0697	.00725	.03805	.03939	255.04	.20498	.04472	B208-13
78	A236-01	83.962	1.0146	2.1922	6.5637	1.3130	.76519	2.0631	63.693	2.5738	.62658	A236-01
79	A236-01T	8.8165	.10054	.21423	.66500	.13312	.08059	.21373	6.5009	.26169	.06036	A236-01T
80	Blank	.01044	.00099	-.00038	.00022	-.00002	.00129	.00004	-.00828	.00016	.00000	Blank
81	MRLB2403	.22588	.09969	.01049	.01061	.01006	.01014	.01032	1.0040	.01053	.00914	MRLB2403
82	MRLB2404	.22828	.05092	.01021	.00646*	.00419	.09415	.00526	.52374	.01054	.00893	MRLB2404
83	CCV7	107.68	1.5141	1.0506	1.9736	1.4656	2.4405	1.9708	75.400	2.4384	.95032	CCV7
84	CCB7	.03249	.00163	-.00106	.00155	.00071*	.00566	.00029	.07869	.00080	.00018	CCB7
85	IPB044WB	.01106	.00027	-.00018	-.00020	-.00004	.00410	-.00009	-.02433	.00006	.00002	IPB044WB
86	IPB044WL	5.7545	2.5443	.53834	.50285	.51054	.50236	.52873	50.221	.51447	.47936	IPB044WL
87	IPB044WC	5.8281	2.5645	.54108	.51153	.51893	.51212	.53004	50.961	.52111	.48738	IPB044WC
88	B196-12A	6.0487	2.5119	.56493	.62350	.52996	.56344	.52980	115.37	.53710	.49389	B196-12A
89	B196-12	.02502	.00196	.00210	.09957	.00013	.05315	.00005	66.601	.00972	-.00034	B196-12
90	B196-12J	.00645	.00063	-.00101	.01978	-.00002	.01092	-.00009	13.602	.00212	-.00017	B196-12J
91	B196-12M	5.9023	2.6192	.55909	.62050	.52113	.57098	.52938	118.62	.53059	.48512	B196-12M
92	B196-12S	5.8658	2.5749	.55132	.62002	.52024	.57025	.52448	119.67	.53320	.48402	B196-12S
93	B193-13	.02551	.00116	.00253	.10213	.00016	.05421	.00004	69.193	.01001	-.00030	B193-13
94	Blank	.00369	.00125	-.00110	.00018	.00001	.00119	.00000	-.00086	.00004	.00000	Blank
95	CCV8	106.38	1.4979	1.0533	1.9790	1.4680	2.4645	2.0129	76.245	2.4940	.94935	CCV8
96	CCB8	.02490	.00148	.00002	.00110	.00029*	.00583	.00045*	.05946	.00059	.00022	CCB8
97	B173-04	.86138	-.00028	.00538	.16508	.00006	.08570	.00061	91.515	.0813B	.00016	B173-04
98	B173-05	3.6104	-.00190	.00298	.20979	.00019	.07788	.00088	183.49	.35067	.00143	B173-05
99	B173-06	.49245	-.01513	.00127	.08536	.00000	.07398	.00017	78.586	1.7573	-.00013	B173-06
100	B204-05	.65107	.00074	.00396	.36906	-.00002	.10132	.00003	26.058	.00356	-.00002	B204-05
101	B204-07	.65700	-.00043	.00269	.07349	.00001	.05535	.00001	60.775	.01118	-.00024	B204-07
102	B204-09	.02403	-.00134	.00025	.08066	-.00005	.10487	-.00008	179.76	.23542	-.00045	B204-09
103	B180-01	.90831	.00043	.00103	.03321	.00000	.03151	.00030	32.122	.00373	.00017	B180-01
104	B203-01	3.1405	.00123	.00142	.04883	.00008	.12527	.00006	26.528	.00941	.00125	B203-01
105	B201-01	.01812	.00060	-.00186	.03314	-.00006	.02458	.00000	14.704	.00410	-.00042	B201-01
106	Blank	.00374	-.00026	-.00079	.00012	-.00002	.00018	-.00005	.00077	-.00002	-.00008	Blank
107	CCV9	109.76	1.5284	1.0691	2.0091	1.4960	2.4906	2.0273	77.120	2.5094	.95928	CCV9
108	CCB9	.03024	.00116	-.00010	.00261	.00043*	.00535	.00033	.25739	.00074	.00019	CCB9
109	B201-01M	5.8750	2.6409	.56228	.54931	.52519	.54555	.54975	66.143	.53684	.48852	B201-01M
110	B201-01S	5.8880	2.6203	.55801	.55160	.52728	.54775	.54012	66.571	.53402	.48588	B201-01S
111	B525-01	1.1921	.00453	.00303	.07232	.00018	.09107	.00236	14.929	.00803	.00127	B525-01

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
112	B526-01A	6.6457	2.4971	.56091	.55590	.53356	.50858	.55021	60.617	.56546	.49368	B526-01A
113	B526-01T	.73295	.00565	.00106	.03579	.00010	.00465	.00023	9.2138	.02687	.00112	B526-01T
114	B526-01J	.14488	.00162	.00148	.00705	.00002	.00137	.00004	1.7991	.00534	.00010	B526-01J
115	B516-03	.72401	.58972	-.00306	.39695	.00007	.00222	.27466	.66467	.22584	.00288	B516-03
116	B516-04	.01492	.00262	-.00215	.00091	-.00004	.00317	-.00010	9.2127	.00055	-.00031	B516-04
117	Blank	.00932	.00037	.00008	.00090	.00002	.00026	.00014	.05150	.00037	.00008	Blank
118	CCV10	109.65	1.5325	1.0829	2.0118	1.5046	2.5017	2.0688	78.171	2.5358	.95595	CCV10
119	CCB10	.03278	.00107	-.00018	.00319	.00048*	.00560	.00050*	.25300	.00087	.00026	CCB10
120	IPB045SB	.03773	.00191	-.00154	.00197	.00064	.00251	-.00014	.05059	.00105	-.00013	IPB045SB
121	IPB045SL	5.3836	2.5023	.53499	.51737	.52668	.47980	.54860	53.773	.54907	.50180	IPB045SL
122	IPB045SC	5.3775	2.4760	.52818	.51825	.53032	.48637	.54622	54.156	.55362	.50472	IPB045SC
123	B225-15A	63.012	2.3593	.59836	1.7649	.53455	.49008	.74003	77.406	.67853	.57056	B225-15A
124	B225-15	58.195	.01849	.06944	1.3084	.00647	.02872	.23261	26.499	.14714	.06942	B225-15
125	B225-15J	12.081	.00382	.01354	.26171	.00133	.00654	.04751	5.4123	.02992	.01339	B225-15J
126	B225-15M	81.339	2.2827	.61029	1.8028	.53440	.48573	.55155	74.751	.71284	.58373	B225-15M
127	B225-15S	78.629	2.2520	.59641	1.7809	.52953	.48166	.55207	74.122	.67951	.58179	B225-15S
128	B225-01	73.604	.01497	.09279	.94598	.00629	.04727	.13770	283.59	.20355	.05149	B225-01
129	Blank	.08071	.00079	-.00009	.00212	.00013	.00083	.00014	.36691	.00056	.00013	Blank
130	CCV11	110.17*	1.5356	1.0835	1.9951	1.5047	2.5063	2.0681	78.264	2.5484	.95194	CCV11
131	CCB11	.02010	.00122	-.00051	.00223	.00032*	.00520	.00029	.24303	.00045	.00005	CCB11
132	B225-02	67.652	.01114	.07726	.84615	.00565	.03895	.06108	101.93	.18342	.04507	B225-02
133	B225-03	85.437	.01188	.13242	1.5858	.00826	.06021	.01199	38.721	.40502	.14916	B225-03
134	B225-04	89.628	.01243	.11969	1.1920	.00781	.05580	.00990	32.846	.45090	.09304	B225-04
135	B225-05	70.755	.00939	.07517	1.1673	.00587	.03428	.04019	59.864	.16289	.06646	B225-05
136	B225-06	96.061	.01545	.14030	1.4433	.00943	.06950	.01985	37.034	.52124	.19312	B225-06
137	B225-07	30.516	.01291	.06763	.46627	.00453	.03478	.19206	472.52	.10039	.03021	B225-07
138	B225-08	46.400	.00819	.06165	.93020	.00478	.02871	.05583	136.95	.14959	.02950	B225-08
139	B225-09	53.695	.00903	.07592	1.0302	.00577	.03113	.05923	137.82	.24655	.03110	B225-09
140	B225-10	9.7285	.01676	.05635	.25924	.00240	.03057	.32403	657.12	.06979	.02072	B225-10
141	Blank	.02996	.00019	-.00125	.00123	.00002	.00003	.00003	1.0241	.00031	-.00002	Blank
142	CCV12	108.59	1.5225	1.0891	2.0079	1.5097	2.5245	2.1152	79.140	2.6061	.95292	CCV12
143	CCB12	.04096	.00062	.00071	.00269	.00059*	.00536	.00060*	.29816	.00102	.00028	CCB12
144	B225-11	29.427	.02022	.10168	.44026	.00650	.03820	.47161	670.28	.11138	.02968	B225-11
145	B225-12	56.662	.01737	.07445	1.1461	.00641	.03163	.33251	333.20	.12121	.06403	B225-12
146	B225-13	37.976	.01848	.07616	1.2076	.00516	.02351	.38050	170.50	.11839	.07793	B225-13
147	B225-14	41.350	.02372	.13017	.88924	.00461	.05886	.10198	64.135	.12664	.05828	B225-14
148	Blank	.03110	-.00014	.00005	.00088	.00001	.00015	.00008	.06087	.00015	.00007	Blank
149	CCV13	109.55	1.5351	1.0967	2.0131	1.5101	2.5329	2.1157	78.702	2.5933	.95612	CCV13
150	CCB13	.02921	.00112	.00117	.00225	.00042*	.00533	.00037	.25200	.00062	.00028	CCB13

ID8B026 Section 1 of 3

ID88026 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00153	.00001	.00003	.00012	.00000	.00004	.00000	-.00046	.00024	.00000	Blank
2	S20			.19905			.10729					S20
3	S21			1.9725			1.0542					S21
4	S22	.33632	.05704									S22
5	S23	3.2059	2.1637									S23
6	S24							.78336				S24
7	S25							7.8929				S25
8	S26								.78733	.34972		S26
9	S27								7.4776	3.4588		S27
10	S28					.10528						S28
11	S29					.42862						S29
12	S30				.03009						.00146	S30
13	S31				.14950						.00571	S31
14	ICV	2.5128	24.835	2.3942	.52860	55.375	2.3160	2.4472	2.4646	58.637	1.0158	ICV
15	ICB	.00052	.00451	.00038	.00017	.00648	.00022	.00050	.00002	.04891	.00094	ICB
16	MLB02401	.01061	.21461	.00970	.00980	.93253	.00973	.01006	.00992	.92942	.01032	MLB02401
17	MLB02402	.01112	.10730	.00300	.09793	.19208	.00510	.00982	.01008	.90119	.01059	MLB02402
18	ICSA1	.00181	186.57	.00296	.00703	188.91	.00064	-.00183	-.00043	-.06029	.00216	ICSA1
19	ICSAB1	.54904	186.28	.94875	1.1463	187.03	.45871	1.0315	.99823	78.615	1.0794	ICSAB1
20	CCV1	2.5235	24.623	2.3934	.53045	54.995	2.3093	2.5093	2.4665	58.581	1.0416	CCV1
21	CCB1	.00059	.03044	-.00036	-.00022	.02375	.00027	.00071	.00012	.05560	.00040	CCB1
22	IPB035SQ	.00128	.05024	-.00008	-.00026	.04705	.00075	.00041	.00030	.04125	.00066	IPB035SQ
23	IPB035SX	.53083	5.2972	.50815	.00052*	47.992	.50076	.55337	.47698	50.325	.51048	IPB035SX
24	IPB035SY	.52687	5.2924	.50775	.00007*	48.449	.49834	.54812	.47581	50.826	.50272	IPB035SY
25	B130-06A	.85284	341.03	.64934	.14593	57.473	2.7815	.55153	.63446	65.911	.51489	B130-06A
26	B130-06W	.31072	348.74	.14658	.14122	10.657	2.3745	.02185	.14397	15.774	.00731	B130-06W
27	B130-06J	.06255	74.540	.02983	.02758	2.1848	.48889	.00439	.02846	3.0933	.00189	B130-06J
28	B130-06G	.81200	306.13	.64617	.24178	65.940	2.8425	.54245	.59638	80.975	.50387	B130-06G
29	B130-06H	.84199	321.77	.68700	.24136	66.442	4.1751	.54855	.60289	82.499	.50347	B130-06H
30	B130-02W	.05066	188.26	.32609	.03896	5.3960	45.537*	.00438	.09143	9.1909	.00367	B130-02W
31	Blank	.00124	.12197	.00122	.00039	.02917	.00823	.00047	.00114	.01622	.00078	Blank
32	CCV2	2.5007	24.544	2.3829	.52651	55.067	2.3037	2.5027	2.4598	58.623	1.0264	CCV2
33	CCB2	.00079	.00861	.00019	.00007	.02266	.00063	.00058	.00010	.03259	-.00013	CCB2
34	B130-03W	.08391	237.07	.56403	.02462	2.3608	1.6148	.01098	.04200	2.0529	.00469	B130-03W
35	B130-04W	.34382	279.96	2.7011	.04028	3.4142	4.9290	.01619	.07204	4.3298	.00343	B130-04W
36	B130-05W	.06733	301.24	.19367	.05186	3.7782	1.2519	.00717	.07545	3.1942	.00467	B130-05W
37	B208-09T	.01603	108.67	.07373	.00534	1.0232	2.4344	.00319	.01633	1.0127	.00209	B208-09T
38	Blank	.00034	.10691	.00021	-.00013	.01048	.00224	.00009	.00052	.00056	.00085	Blank
39	CCV3	2.4879	24.500	2.3861	.52276	55.434	2.3051	2.4881	2.4541	58.249	1.0178	CCV3
40	CCB3	.00069	.00976	.00042	-.00022	.01558	.00035	.00080*	.00035	.00861	.00097	CCB3
41	IPB046SB	.00105	.01789	-.00012	-.00005	.01997	.00063	.00067	.00025	.02182	.00145	IPB046SB
42	IPB046SL	.52290	5.2496	.50565	-.00005*	47.775	.49321	.54733	.47215	49.825	.50040	IPB046SL
43	IPB046SC	.51754	5.1600	.49855	.00007*	46.853	.48341	.53955	.46465	48.873	.49516	IPB046SC
44	B526-01A	37.172*	132.94	1.2614	.00743	51.227	1.1629	.55959	2.8831	51.754	.54197	B526-01A
45	B526-01T	37.105*	131.44	.77578	.00706	3.9800	.68303	.03512	2.4678	1.1398	.00317	B526-01T
46	B526-01J	7.6644	26.617	.15125	.00115	.81573	.13708	.00652	.47301	.20544	.00072	B526-01J
47	B526-01M	45.440*	280.64	.74534	.00533	13.014	1.7789	.13465	3.1057	10.959	.09341	B526-01M
48	B526-01S	36.758*	188.51	.31358	.01198	13.679	.98902	.12980	2.1538	11.337	.09534	B526-01S
49	B248-01T	4.1176	535.55*	.04002	.00160	1.8993	2.8202	.17755	.96167	.03509	.00117	B248-01T
50	Blank	.00839	.13597	-.00040	-.00071	.00417	.00095	.00006	.00003	-.02826	.00183	Blank
51	CCV4	2.5180	24.566	2.3835	.52754	54.814	2.2946	2.5072	2.4631	58.274	1.0201	CCV4
52	CCB4	.00228*	.02121	-.00018	.00013	.01956	.00085	.00065	.00030	.02596	.00031	CCB4
53	B248-01I	2.0301	275.21	.01974	.00083	.94687	1.4300	.08672	.47830	.01752	-.00063	B248-01I
54	B508-01	.01314	3.1449	.00459	.00048	1.5183	.07001	.00070	.00463	4.5912	.01151	B508-01

55	B508-02	.02267	20.935	.02152	.00198	15.898	.36797	.00091	.00537	8.2448	.01042	B508-02
56	B508-03	.03903	24.601	.02721	.00469	26.629	.20199	.00173	.01261	14.440	.01037	B508-03
57	B508-04	.01446	.51686	.00705	.00021	1.8145	.60940	.00022	.00269	1.4989	.00892	B508-04
58	B508-05	.04446	6.8117	.05339	.00173	6.2774	.22077	.00155	.00837	9.9761	.01265	B508-05
59	B508-06	.04316	2.2214	.01623	.00060	3.0648	1.6497	.00911	.00351	4.3008	.01142	B508-06
60	B508-07	.06550	4.1909	.12905	.00164	2.2933	1.2070	.00167	.03826	16.557	.01315	B508-07
61	B508-08	5.4801	.27204	.00899	.00016	4.5763	.08254	.00018	.00295	7.8341	.01171	B508-08
62	Blank	.00279	.00014	-.00004	-.00043	.00118	.00003	-.00001	-.00014	-.04176	-.00032	Blank
63	CCV5	2.4950	24.603	2.3869	.52351	55.210	2.2980	2.5034	2.4596	58.322	1.0190	CCV5
64	CCB5	.00091	.00556	.00011	-.00016	.02172	.00064	.00088*	.00022	-.00362	.00063	CCB5
65	IPB043SB	.00060	.00675	-.00050	-.00003	.00699	.00006	.00046	.00000	-.00238	.00078	IPB043SB
66	IPB043SL	.50565	5.0512	.48141	.00065*	45.905	.47104	.52338	.45079	47.543	.48006	IPB043SL
67	IPB043SC	.49736	5.0183	.47704	.00032*	45.103	.46395	.51667	.44573	46.405	.47251	IPB043SC
68	B208-02A	.70908	124.23	1.0798	.04198	57.379	3.7454	.53007	.58885	55.462	.52043	B208-02A
69	B208-02	.17350	125.10	.60680	.04162	10.922	3.4095	.00435	.10295	6.1083	.00596	B208-02
70	B208-02J	.03418	25.627	.12059	.00747	2.2152	.69368	.00076	.01953	1.1436	.00254	B208-02J
71	B208-02M	.68716	138.56	1.0753	.06997	58.145	3.7716	.50074	.55344	55.534	.47237	B208-02M
72	B208-02S	.69890	145.51	1.1000	.07431	59.562	4.1371	.50746	.56156	56.877	.47813	B208-02S
73	B208-08	.07914	152.67	.91267	.04677	6.5813	2.6107	.00712	.07293	6.4060	.00497	B208-08
74	Blank	.00049	.08929	.00045	-.00021	.00586	.00062	.00022	-.00004	-.03010	.00130	Blank
75	CCV6	2.4959	24.792	2.3811	.52017	55.406	2.3050	2.4963	2.4566	57.796	1.0364	CCV6
76	CCB6	.00096	.00998	.00047	.00010	.02558	.00058	.00100*	.00045	.03448	.00092	CCB6
77	B208-13	.12198	178.41	.26387	.04903	12.697	2.3345	.00757	.08086	6.0876	.00380	B208-13
78	A236-01	1.2699	91.032	2.7557	1.0718	26.456	4.0385	1.4727	1.7622	39.333	1.3435	A236-01
79	A236-01T	.12641	9.5165	.28128	.10172	2.6974	.41675	.13698	.17268	3.7158	.13130	A236-01T
80	Blank	.00045	.01381	-.00006	.00005	.00137	.00007	.00018	-.00007	-.02281	.00215	Blank
81	MRLB2403	.01058	.22195	.00941	.01037	.95149	.00990	.01019	.00996	.87909	.00969	MRLB2403
82	MRLB2404	.01095	.11063	.00332	.09668	.19626	.00497	.00989	.01022	.88432	.01052	MRLB2404
83	CCV7	2.5174	24.925	2.3755	.52265	55.729	2.3054	2.5035	2.4611	57.861	1.0347	CCV7
84	CCB7	.00102	.00958	.00026	.00061	.03272	.00121	.00084*	.00018	.02384	.00030	CCB7
85	IPB044WB	.00055	.00188	-.00029	-.00011	.01065	-.00009	.00012	-.00017	-.02393	.00120	IPB044WB
86	IPB044WL	.52774	5.3546	.49896	.00029*	47.385	.48548	.50658	.45228	48.058	.52911	IPB044WL
87	IPB044WC	.53737	5.4020	.50605	.00056*	48.159	.49530	.51586	.45996	48.986	.53338	IPB044WC
88	B196-12A	.55339	5.6475	.51029	.02863	60.989	.51037	.51507	.48117	52.967	.54785	B196-12A
89	B196-12	.00296	.13992	.00043	.02779	13.141	.00707	.00334	.00005	2.1512	.00109	B196-12
90	B196-12J	.00108	.02697	.00007	.00488	2.6801	.00128	.00072	-.00014	.39425	.00117	B196-12J
91	B196-12M	.54080	5.5328	.50163	.02953	61.858	.50303	.52345	.45593	52.937	.54354	B196-12M
92	B196-12S	.53993	5.5581	.49968	.02963	62.257	.50560	.51876	.45444	53.460	.53658	B196-12S
93	B193-13	.00279	.14497	.00102	.02798	13.670	.00794	.00344	-.00008	2.2608	.00076	B193-13
94	Blank	.00016	-.00078	-.00034	.00031	.00900	-.00013	.00012	-.00018	-.01362	.00075	Blank
95	CCV8	2.5106	24.888	2.3765	.52326	56.138	2.3414	2.4708	2.4550	58.772	1.0365	CCV8
96	CCB8	.00070	.00436	.00036	-.00006	.01589	.00036	.00106*	.00036	.00514	.00085	CCB8
97	B173-04	.01566	.89982	.00453	.03240	17.792	.03580	.00180	.00346	2.9577	.00111	B173-04
98	B173-05	.02429	3.4789	.01315	.04559	37.418	.20280	.00255	.01173	4.8186	.00276	B173-05
99	B173-06	.00317	.32878	.00026	.02823	15.096	.01812	.00263	.00318	2.3317	.00275	B173-06
100	B204-05	.00308	.81250	.00098	.01762	5.0508	.21795	.08273	.00216	2.0982	-.00034	B204-05
101	B204-07	.00145	.36187	.00081	.03032	11.860	.01302	.01031	.00013	1.8892	.00009	B204-07
102	B204-09	.00211	.06178	.00061	.04372	36.292	.00023	.00129	-.00017	2.9892	.00461	B204-09
103	B180-01	.02635	.96645	.00185	.00551	3.4278	.01731	.00719	.00328	1.6563	.00450	B180-01
104	B203-01	.02374	2.8916	.00417	.00446	2.5740	.06051	.00287	.00468	5.0218	.00181	B203-01
105	B201-01	.00103	.00046	.00072	.00041	8.4253	.00009	.00001	.00075	1.5026	.00305	B201-01
106	Blank	.00022	.00061	.00014	.00048	.00437	-.00020	.00003	-.00002	-.03308	.00027	Blank
107	CCV9	2.5649	25.475	2.3991	.53028	57.139	2.3603	2.5174	2.4851	59.038	1.0500	CCV9
108	CCB9	.00087	.00640	.00060	.00002	.02425	.00080	.00102*	.00055	.01440	.00041	CCB9
109	B201-01M	.54157	5.4791	.50361	.00127	57.546	.50347	.51589	.45970	51.545	.55150	B201-01M
110	B201-01S	.53994	5.5015	.50042	.00132	57.890	.50412	.51862	.45851	52.460	.54460	B201-01S
111	B525-01	.08162	1.7561	.01036	.00511	4.1214	.04982	.01471	.01591	27.843	.00071	B525-01

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	B526-01A	4.4461	18.789	.58209	.00116	49.459	.58034	.50640	.71512	49.781	.54216	B526-01A
113	B526-01T	4.0381	13.902	.07524	.00030	.43661	.07138	.00341	.23626	.14714	.00108	B526-01T
114	B526-01J	.79600	2.6970	.01471	.00000	.09030	.01403	.00072	.04533	.01238	.00115	B526-01J
115	B516-03	.19092	1.7704	.67320	.46514	.43145	.08190	.43112	.12271	.18779	.00142	B516-03
116	B516-04	.00076	.02695	-.00022	-.00027	.02020	.00043	.00122	.00008	-.00158	.00241	B516-04
117	Blank	.00051	.00195	.00060	.00031	.00357	.00000	.00028	-.00001	-.03512	.00098	Blank
118	CCV10	2.5503	25.707	2.3914	.52705	58.105	2.3877	2.5025	2.4762	59.293	1.0554	CCV10
119	CCB10	.00090	.00745	.00055	.00016	.02329	.00083	.00112*	.00075	.00926	.00079	CCB10
120	IPB045SB	.00088	.05180	-.00021	-.00035	.03017	.00180	.00033	-.00003	.02592	.00219	IPB045SB
121	IPB045SL	.52877	5.5064	.50350	.00046*	50.718	.52055	.53941	.46959	50.595	.51728	IPB045SL
122	IPB045SC	.52957	5.5265	.50644	-.00002*	51.080	.52085	.54093	.47305	51.133	.51253	IPB045SC
123	B225-15A	.63656	137.50	.65788	.02375	54.510	3.4765	.52318	.53800	53.547	.51087	B225-15A
124	B225-15	.10386	138.58	.17011	.02325	5.6642	3.1500	.00725	.05340	3.9869	.00403	B225-15
125	B225-15J	.02070	28.643	.03435	.00422	1.1601	.64275	.00123	.01009	.76875	.00113	B225-15J
126	B225-15M	.60212	189.48	.68390	.03345	55.934	4.0280	.53885	.55165	55.267	.50448	B225-15M
127	B225-15S	.59043	152.20	.66896	.03133	55.756	4.1345	.53291	.51475	54.325	.50812	B225-15S
128	B225-01	.44447	179.82	.35888	.03313	54.821	5.4740	.01047	.10981	3.9924	.00667	B225-01
129	Blank	.00070	.18933	.00009	-.00012	.07816	.00748	.00016	.00017	-.01625	.00039	Blank
130	CCV11	2.5409	25.957	2.3875	.52388	58.358	2.3819	2.5036	2.4696	58.981	1.0549	CCV11
131	CCB11	.00061	.00884	.00086	.00008	.01845	.00071	.00084*	.00042	.00842	.00031	CCB11
132	B225-02	.17716	165.99	.23558	.02600	20.576	4.1638	.00949	.06359	2.9394	.00700	B225-02
133	B225-03	.12139	280.38	.35648	.02647	6.5605	10.821	.01429	.06801	3.0452	.00756	B225-03
134	B225-04	.08277	276.92	.32590	.02912	6.1493	6.8086	.01208	.08277	3.1648	.00349	B225-04
135	B225-05	.13774	152.57	.28422	.02733	13.575	6.3426	.00721	.06419	3.3374	.00535	B225-05
136	B225-06	.12063	328.46	.35073	.03110	10.014	11.242	.01586	.09018	3.6143	.00723	B225-06
137	B225-07	.68131	82.283	.32626	.02407	88.691	4.0741	.00316	.09841	3.0518	.00772	B225-07
138	B225-08	.29915	118.23	.12370	.02151	26.870	3.1638	.00560	.05669	2.6993	.00505	B225-08
139	B225-09	.29024	151.76	.13142	.02256	26.896	2.9746	.00652	.06430	2.7276	.00482	B225-09
140	B225-10	.74442	60.339	.40046	.01629	139.91	5.4786	.00352	.11001	3.0127	.00756	B225-10
141	Blank	.00061	.10876	.00032	-.00003	.19286	.00851	.00004	.00002	-.05289	.00010	Blank
142	CCV12	2.5459	25.885	2.3870	.52496	58.862	2.4267	2.4711	2.4632	59.711	1.0589	CCV12
143	CCB12	.00091	.01350	.00070	.00017	.02352	.00116	.00119*	.00070	.01801	.00116	CCB12
144	B225-11	1.7452	112.33	.84147	.02591	153.61	4.1905	.00892	.11012	6.9923	.01428	B225-11
145	B225-12	.29496	113.39	.86586	.03089	79.930	4.9893	.00626	.09351	3.7449	.00634	B225-12
146	B225-13	.14033	133.79	.58637	.01840	41.435	3.4010	.00683	.05789	2.4845	.00481	B225-13
147	B225-14	.65479	272.00	.34538	.01872	10.367	3.9952	.01475	.14377	3.2933	.00572	B225-14
148	Blank	.00056	.11972	.00015	-.00025	.00725	.00149	.00001	-.00009	-.04813	.00025	Blank
149	CCV13	2.5729	25.702	2.3869	.52620	58.566	2.4212	2.4805	2.4709	59.723	1.0713	CCV13
150	CCB13	.00070	.00905	.00054	.00041	.03091	.00096	.00096*	.00029	.00407	.00085	CCB13

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00342	-.00009	-.00001	.00008	.00001	-.00011	.00189	Blank
2	S20									S20
3	S21									S21
4	S22							.13396		S22
5	S23							1.3219		S23
6	S24		1.1044							S24
7	S25		6.3559							S25
8	S26									S26
9	S27									S27
10	S28				.00619					S28
11	S29				.05738					S29
12	S30	.04125		.13131		.02639	.01660		.57222	S30
13	S31	.20552		.65425		.12870	.08240		5.5177	S31
14	ICV	.49867	62.711	.48128	2.2877	.49185	.49074	1.4464	2.6624	ICV
15	ICB	.00013	-.03587	.00010	.00003	.00016	.00002	.00009	-.00124	ICB
16	MLB02401	.00988	.95502	.00995	.01060	.00020	.00980	.00985	.01271*	MLB02401
17	MLB02402	.01003	.44671	.01017	.01062	.00985	.01007	.01004	.00890	MLB02402
18	ICSA1	.00041	-.02702	-.00046	.00107	.00313	.00254	-.00115	-.00011	ICSA1
19	ICSAB1	1.1090	82.719	.49399	.84562	.99851	.97523	.48917	1.0823	ICSAB1
20	CCV1	.50293	62.202	.48510	2.3163	.51334	.48745	1.4491	2.6877	CCV1
21	CCB1	.00022	-.01620	.00013	-.00021	.00018	-.00017	.00014	-.00127	CCB1
22	IPB035SQ	-.00002	.05131	.00132	-.00082	.03377	.00038	.00039	.00606	IPB035SQ
23	IPB035SX	.49793	53.774	.49265	.48085	.55405	.51779	.52136	.57959	IPB035SX
24	IPB035SY	.49483	54.179	.48895	.47457	.54945	.51521	.51897	.57936	IPB035SY
25	B130-06A	.49836	53.108	.51723	.45973	.53879	1.6191	.91415	.86691	B130-06A
26	B130-06W	.00056	.12836	.04383	.00427	.04369	1.1521	.41224	.28657	B130-06W
27	B130-06J	.00017	-.03894	.00886	.00171	.00864	.23229	.08220	.05503	B130-06J
28	B130-06G	.50275	52.922	.57115	.45360	.55119	2.0252	.94317	.90017	B130-06G
29	B130-06H	.50243	53.258	.56940	.45197	.55690	2.0546	.94132	.87755	B130-06H
30	B130-02W	-.00013	.13756	.03520	-.01384*	.04083	.60122	.18796	.17029	B130-02W
31	Blank	.00014	-.04514	.00068	.00028	.00068	.00048	.00034	.04803	Blank
32	CCV2	.49777	62.039	.48276	2.2875	.51142	.48696	1.4377	2.6755	CCV2
33	CCB2	-.00012	-.04806	.00017	-.00002	.00020	.00019	.00010	.00243	CCB2
34	B130-03W	-.00013	.06381	.01671	.00195	.04022	.82280	.32227	.14111	B130-03W
35	B130-04W	-.00043	.07045	.02707	.00146	.04291	.89420	.38827	.24729	B130-04W
36	B130-05W	.00001	.03510	.02771	.00259	.04029	1.0440	.35937	.22012	B130-05W
37	B208-09T	.00006	-.05766	.01247	.00049	.01119	.20691	.14297	.39965	B208-09T
38	Blank	-.00022	-.08451	.00007	-.00114	.03806	.00008	.00008	.00095	Blank
39	CCV3	.49743	61.683	.47974	2.2653	.51214	.48678	1.4359	2.6821	CCV3
40	CCB3	.00004	-.05733	.00017	.00062	.00043	.00000	.00018	.00231	CCB3
41	IPB046SB	-.00018	-.05720	.00027	-.00108	.03980	.00000	.00046	.00151	IPB046SB
42	IPB046SL	.49411	53.130	.48385	.47272	.55415	.51218	.51692	.57609	IPB046SL
43	IPB046SC	.48700	52.205	.47635	.46441	.54773	.50462	.50798	.56423	IPB046SC
44	B526-01A	.54076	55.508	.89920	.48309	1.7188	.87496	.54272	2.4934	B526-01A
45	B526-01T	.03250	1.8885	.43753	.00131	1.2161	.37679	.02354	1.9421	B526-01T
46	B526-01J	.00637	.28461	.08621	.00043	.23527	.07324	.00460	.36930	B526-01J
47	B526-01M	.13142	12.175	.33251	.09961	2.5815	.44015	.13682	1.8743	B526-01M
48	B526-01S	.22306	11.809	.40605	.09762	.71829	.56134	.13368	1.3444	B526-01S
49	B248-01T	.00369	.28856	.08974	.00639	.13525	.09369	.02078	.04820	B248-01T
50	Blank	-.00009	-.09857	.00010	-.00067	.00032	.00024	.00007	-.00092	Blank
51	CCV4	.49948	61.831	.48137	2.2787	.51423	.48593	1.4426	2.6792	CCV4
52	CCB4	.00003	-.05860	.00027	.00004	.00008	.00040	.00004	.00168	CCB4
53	B248-01I	.00170	.09424	.04527	.00371	.06673	.04539	.01027	.02213	B248-01I
54	B508-01	-.00015	1.2676	.15018	-.00778*	.04378	.00813	.00087	.49405	B508-01

55	B508-02	-.00018	9.5426	.09437	-.00802*	.04735	.44143	.00322	2.5072	B508-02
56	B508-03	-.00006	5.7100	.17340	-.00820*	.04828	.51217	.00393	1.5128	B508-03
57	B508-04	.00057	.18158	.03190	-.00678*	.04371	.01242	.00069	.17354	B508-04
58	B508-05	-.00009	4.3480	.07570	-.00877*	.04885	.08308	.00353	2.2096	B508-05
59	B508-06	-.00017	34.891	.04568	-.00955*	.04584	.05213	.00284	1.4746	B508-06
60	B508-07	-.00026	.62870	.09554	-.00914*	.04841	.02685	.00209	14.125	B508-07
61	B508-08	-.00028	.13506	.10046	-.00878*	.04546	.00537	.00011	.15141	B508-08
62	Blank	-.00010	-.10038	.00009	-.00078	.00022	.00002	-.00020	.00116	Blank
63	CCV5	.49819	61.678	.48032	2.2758	.51230	.48677	1.4424	2.6812	CCV5
64	CCB5	-.00002	-.06610	.00016	-.00021	.00033	-.00004	.00014	.00192	CCB5
65	IPB043SB	-.00008	-.08293	.00008	-.00086	.03885	.00002	.00005	-.00057	IPB043SB
66	IPB043SL	.47519	50.768	.45603	.45518	.53058	.49012	.49627	.54751	IPB043SL
67	IPB043SC	.46845	49.654	.44651	.45025	.52470	.48256	.48781	.54237	IPB043SC
68	B208-02A	.49102	52.812	.56877	.45752	.54095	1.4730	.74488	17.911	B208-02A
69	B208-02	-.00048	.50722	.10663	-.00141	.04903	1.0116	.24496	17.940	B208-02
70	B208-02J	-.00020	.01863	.02109	.00000	.00974	.20011	.04848	3.5078	B208-02J
71	B208-02M	.47993	50.984	.57314	.40561	.52945	1.5081	.75329	18.655	B208-02M
72	B208-02S	.48629	51.633	.58391	.41353	.53344	1.6105	.77351	19.572	B208-02S
73	B208-08	-.00044	.35931	.09353	-.00023	.06551	.92104	.26869	1.1274	B208-08
74	Blank	.00008	-.09923	.00002	-.00049	.00062	.00035	.00018	.00495	Blank
75	CCV6	.50012	61.237	.47897	2.3293	.51253	.48854	1.4527	2.7096	CCV6
76	CCB6	.00017	-.05780	.00023	.00015	.00015	.00021	.00023	.00251	CCB6
77	B208-13	-.00056	.44758	.12995	-.00035	.04489	.84050	.31008	5.0270	B208-13
78	A236-01	.37492	69.235	2.1661	1.7859	.94672	.60561	.92490	2.8795	A236-01
79	A236-01T	.03727	6.6866	.21726	.20397	.09333	.06050	.09233	.27287	A236-01T
80	Blank	-.00004	-.09285	.00003	-.00052	.00018	-.00023	.00004	-.00084	Blank
81	MRLB2403	.00996	.91859	.01004	.01072	.00013	.01017	.01011	.01850	MRLB2403
82	MRLB2404	.00992	.40456	.01018	.01065	.00977	.01046	.01013	.00956	MRLB2404
83	CCV7	.49933	61.416	.47607	2.3233	.51214	.48957	1.4529	2.6902	CCV7
84	CCB7	.00009	-.05498	.00025	.00046	.00041	.00008	.00028	.00159	CCB7
85	IPB044WB	-.00013	-.09531	.00007	-.00080	.00029	-.00010	-.00016	.00046	IPB044WB
86	IPB044WL	.50986	51.580	.46792	.50753	.49825	.50424	.50918	.55251	IPB044WL
87	IPB044WC	.51709	52.522	.47885	.50849	.50538	.51448	.51672	.56011	IPB044WC
88	B196-12A	.51664	94.355	1.2209	.50031	.49850	.50641	.53473	.60028	B196-12A
89	B196-12	-.00016	41.153	.76925	-.00020	.00011	.00144	.00509	.02917	B196-12
90	B196-12J	-.00008	8.0963	.15573	-.00002	.00039	.00015	.00107	.00740	B196-12J
91	B196-12M	.52613	96.130	1.2704	.49261	.51243	.51912	.52436	.59364	B196-12M
92	B196-12S	.52690	96.957	1.2782	.48824	.50689	.51360	.52641	.59338	B196-12S
93	B193-13	-.00013	42.630	.79485	-.00078	.00003	.00129	.00532	.03484	B193-13
94	Blank	-.00014	-.06722	.00021	-.00037	.00003	.00023	-.00008	-.00136	Blank
95	CCV8	.50594	62.009	.48541	2.3384	.50479	.48976	1.4778	2.7116	CCV8
96	CCB8	.00001	-.05195	.00018	.00055	.00055	.00033	.00020	.00221	CCB8
97	B173-04	-.00006	57.062	1.0331	-.00131	.00100	.01988	.00479	.08833	B173-04
98	B173-05	.00001	72.207	2.0800	-.00029	.00145	.06853	.00796	.12996	B173-05
99	B173-06	-.00008	49.477	.87542	.00005	.00037	.01168	.00522	.01205	B173-06
100	B204-05	-.00021	44.661	.30065	-.00083	.00210	.01397	.00041	.01535	B204-05
101	B204-07	-.00025	43.053	.69299	-.00042	.00032	.01459	.00609	.00475	B204-07
102	B204-09	-.00027	74.579	2.0356	-.00051	.00028	.00182	.00393	.03397	B204-09
103	B180-01	-.00013	6.1856	.16993	-.00035	.00143	.04795	.00606	.06215	B180-01
104	B203-01	-.00016	7.8535	.09613	-.00070	.00081	.17874	.02437	.05160	B203-01
105	B201-01	-.00010	49.108	.20595	-.00034	-.00024	.00052	.00074	.00266	B201-01
106	Blank	-.00008	-.05719	.00017	-.00045	.00008	.00011	-.00018	-.00126	Blank
107	CCV9	.51126	62.406	.48360	2.3753	.51414	.49783	1.4950	2.7478	CCV9
108	CCB9	.00006	-.04519	.00026	.00090	.00028	.00008	.00034	.01002	CCB9
109	B201-01M	.53111	102.20	.68659	.50993	.50780	.51877	.52952	.57162	B201-01M
110	B201-01S	.53004	103.63	.69012	.50572	.50931	.52067	.52718	.56995	B201-01S
111	B525-01	-.00002	119.26	.06339	-.00065	.00113	.10524	.00747	1.7643	B525-01

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
112	B526-01A	.51465	52.742	.50572	.52404	.61172	.54499	.53990	.77047	B526-01A
113	B526-01T	.00334	.15162	.04394	.00018	.11697	.03762	.00244	.18626	B526-01T
114	B526-01J	.00065	-.03049	.00861	-.00086	.02259	.00748	.00048	.03479	B526-01J
115	B516-03	.05345	.49823	.01101	-.00104	.04297	.01611	.00142	.35529	B516-03
116	B516-04	-.00028	-.06504	.00499	-.00175	.03727	.00061	.00016	.66759	B516-04
117	Blank	-.00008	-.09029	.00001	.00006	.00028	.00023	-.00008	.00211	Blank
118	CCV10	.51351	62.522	.48444	2.4106	.51071	.50113	1.5015	2.7605*	CCV10
119	CCB10	.00010	-.04631	.00031	.00058	.00063	.00047	.00039	.00993	CCB10
120	IPB045SB	-.00008	-.04104	.00028	-.00145	.03984	.00123	.00038	.00202	IPB045SB
121	IPB045SL	.50669	53.692	.48398	.49949	.54938	.52342	.54330	.59447	IPB045SL
122	IPB045SC	.51080	54.117	.48727	.49489	.54891	.52512	.54661	.59489	IPB045SC
123	B225-15A	.49113	52.970	.54966	.47062	.53271	1.0678	.88836	48.326*	B225-15A
124	B225-15	-.00062	.60449	.08498	-.00062	.04617	.58681	.37212	49.441*	B225-15
125	B225-15J	.00003	.04677	.01692	-.00019	.00901	.11643	.07458	10.362	B225-15J
126	B225-15M	.51749	54.890	.57234	.47802	.55317	1.1052	.94847	4.1383	B225-15M
127	B225-15S	.51204	54.116	.55676	.47798	.55004	1.0750	.86715	4.6757	B225-15S
128	B225-01	-.00018	.51169	.17575	-.00074	.07155	.74231	.31657	30.798	B225-01
129	Blank	.00026	-.07344	.00030	-.00021	.00029	.00082	.00061	.00499	Blank
130	CCV11	.51274	62.198	.47958	2.4165	.51495	.49907	1.5044	2.7699*	CCV11
131	CCB11	-.00001	-.05844	.00016	.00021	.00036	.00076	.00021	.00988	CCB11
132	B225-02	-.00031	.31280	.09296	.00029	.11380	.79667	.30145	13.356	B225-02
133	B225-03	-.00025	.32094	.06712	-.00009	.04759	1.1727	.54893	2.8126	B225-03
134	B225-04	-.00036	.29386	.06951	.00098	.04672	1.2180	.48235	2.3280	B225-04
135	B225-05	-.00052	.39823	.09422	-.00124	.04595	.99979	.29987	8.2114	B225-05
136	B225-06	-.00056	.30267	.08815	-.00034	.04822	1.3363	.61388	4.3443	B225-06
137	B225-07	-.00021	.47211	.23012	-.00205	.04902	.37849	.12082	43.156*	B225-07
138	B225-08	-.00060	.37478	.09809	-.00090	.04499	.63872	.22022	10.415	B225-08
139	B225-09	-.00049	.40542	.10166	-.00098	.04553	.63283	.28917	11.210	B225-09
140	B225-10	-.00020	.39514	.30945	-.00481	.04524	.11511	.06593	71.945*	B225-10
141	Blank	-.00007	-.10317	.00044	.00020	.00007	.00060	.00017	.01720	Blank
142	CCV12	.52066	62.717	.49007	2.4384	.50697	.49990	1.5348	2.7857*	CCV12
143	CCB12	.00020	-.05667	.00033	.00071	.00036	.00021	.00037	.01199	CCB12
144	B225-11	.00040	.57080	.31937	-.00154	.04716	.27187	.14172	66.109*	B225-11
145	B225-12	-.00047	1.1274	.19299	-.00257	.04544	.40875	.24368	56.279*	B225-12
146	B225-13	-.00061	1.2339	.11201	-.00195	.04396	.44290	.30183	63.394*	B225-13
147	B225-14	.00009	.39012	.08634	.00079	.96365	.42020	.21456	18.828	B225-14
148	Blank	-.00010	-.10365	.00007	-.00050	.00002	.00028	-.00004	.01965	Blank
149	CCV13	.52225	62.739	.49122	2.4460	.50703	.50026	1.5371	2.7636*	CCV13
150	CCB13	.00006	-.06293	.00026	.00033	.00017	.00036	.00022	.01083	CCB13

ID8B026 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Digestor D

Book #: EIP-098
Batch: IPB042S
Matrix: Soil

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °c		90 °c

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-02-13	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-311	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-209	10
HNO3(1:1)	SM5B-02-145	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060

☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask

☐ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask

☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask

☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask

☑ Thermometer ID: 111241129

Prepared By: HF/MMM

Standard Added By: HF Witnessed By: MMM

Extract Rcvd By: TH Checked By: TH

FileID: IPB042S

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPB042S01	IPB042SB	1	g	2/22/11 12:39	100	1	100	1	
11IPB042S02	IPB042SL	1	g	2/22/11 12:39	100	1	100	1	
11IPB042S03	IPB042SC	1	g	2/22/11 12:39	100	1	100	1	
11IPB042S04	B208-01	1.01	g	2/22/11 12:43	100	1	100	0.99	✓
11IPB042S05	B208-01M	1.3	g	2/22/11 12:44	100	1	100	0.769	✓
11IPB042S06	B208-01S	1.39	g	2/22/11 12:45	100	1	100	0.719	✓
11IPB042S07	B208-02	1	g	2/22/11 12:48	100	1	100	1	✓
11IPB042S08	B208-03	1.25	g	2/22/11 12:50	100	1	100	0.8	✓
11IPB042S09	B208-04	1.19	g	2/22/11 12:52	100	1	100	0.84	✓
11IPB042S10	B208-05	1.19	g	2/22/11 12:55	100	1	100	0.84	✓
11IPB042S11	B208-06	1.38	g	2/22/11 12:57	100	1	100	0.725	✓
11IPB042S12	B208-07	1.43	g	2/22/11 13:00	100	1	100	0.699	✓
11IPB042S13	B208-08	1.27	g	2/22/11 13:01	100	1	100	0.787	✓
11IPB042S14	B208-09	1.27	g	2/22/11 13:05	100	1	100	0.787	✓
11IPB042S15	B208-10	1.19	g	2/22/11 13:08	100	1	100	0.84	✓
11IPB042S16	B208-11	1.33	g	2/22/11 13:10	100	1	100	0.752	✓
11IPB042S17	B208-12	1.3	g	2/22/11 13:13	100	1	100	0.769	✓
11IPB042S18	B208-13	1.39	g	2/22/11 13:14	100	1	100	0.719	✓

HF 2/22/11

Balance ID: 10304418. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 2/22/11 13:40 Prepared By: HF/MJM

☑ Digestion Ended @ 2/22/11 15:40 Checked By: TH

Comments: Date 2/22/11

7072

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11B208

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of four (4) soil samples were received on 02/18/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary forms for details.

Lab Control Sample
Two sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries for IPB043SL/C were all within QC limits.
Percent recoveries for IPB050SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for B208-02M/S were within project QC limits.
In addition Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

All samples were oven-dried and passed through sieve # 60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11B208
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPB043SB	1	NA	02/24/1117:03	02/23/1115:30	ID8B026065	ID8B026063	IPB043S	Method Blank
LCS1S	IPB043SL	1	NA	02/24/1117:05	02/23/1115:30	ID8B026066	ID8B026063	IPB043S	Lab Control Sample (LCS)
LCD1S	IPB043SC	1	NA	02/24/1117:08	02/23/1115:30	ID8B026067	ID8B026063	IPB043S	LCS Duplicate
CB231-08-02AS	B208-02A	0.99	NA	02/24/1117:11	02/23/1115:30	ID8B026068	ID8B026063	IPB043S	Analytical Spike Sample
CB231-08-02	B208-02	0.99	NA	02/24/1117:13	02/23/1115:30	ID8B026069	ID8B026063	IPB043S	Field Sample
CB231-08-02DL	B208-02J	4.95	NA	02/24/1117:16	02/23/1115:30	ID8B026070	ID8B026063	IPB043S	Diluted Sample
CB231-08-02MS	B208-02M	0.99	NA	02/24/1117:19	02/23/1115:30	ID8B026071	ID8B026063	IPB043S	Matrix Spike Sample (MS)
CB231-08-02MSD	B208-02S	0.962	NA	02/24/1117:21	02/23/1115:30	ID8B026072	ID8B026063	IPB043S	MS Duplicate (MSD)
CP093-S5-01-02	B208-08	0.943	NA	02/24/1117:24	02/23/1115:30	ID8B026073	ID8B026063	IPB043S	Field Sample
CP093-S5-03-02	B208-13	1.00	NA	02/24/1117:35	02/23/1115:30	ID8B026077	ID8B026075	IPB043S	Field Sample
MBLK2S	IPB050SB	1	NA	02/25/1111:58	02/24/1113:48	ID8B027037	ID8B027035	IPB050S	Method Blank
LCS2S	IPB050SL	1	NA	02/25/1112:01	02/24/1113:48	ID8B027038	ID8B027035	IPB050S	Lab Control Sample (LCS)
LCD2S	IPB050SC	1	NA	02/25/1112:04	02/24/1113:48	ID8B027039	ID8B027035	IPB050S	LCS Duplicate
CP091-13-01	B208-05R	0.962	NA	02/25/1112:09	02/24/1113:48	ID8B027041	ID8B027035	IPB050S	Field Sample
CP091-13-01DL	B208-05J	4.81	NA	02/25/1112:12	02/24/1113:48	ID8B027042	ID8B027035	IPB050S	Diluted Sample
CP091-13-01AS	B208-05A	0.962	NA	02/25/1113:10	02/24/1113:48	ID8B027059	ID8B027057	IPB050S	Analytical Spike Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 12:00
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/23/11 15:30
Sample ID:	CB231-08-02	Date Analyzed:	02/24/11 17:13
Lab Samp ID:	B208-02	Dilution Factor:	0.99
Lab File ID:	ID8B026069	Matrix :	SOIL
Ext Btch ID:	IPB043S	% Moisture :	NA
Calib. Ref.:	ID8B026063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	60.1	0.990	0.297

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/14/11 15:35
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/24/11 13:48
Sample ID:	CP091-13-01	Date Analyzed:	02/25/11 12:09
Lab Samp ID:	B208-05R	Dilution Factor:	0.962
Lab File ID:	ID8B027041	Matrix :	SOIL
Ext Btch ID:	IPB050S	% Moisture :	NA
Calib. Ref.:	ID8B027035	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	48.0	0.962	0.289

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 10:45
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/23/11 15:30
Sample ID:	CP093-S5-01-02	Date Analyzed:	02/24/11 17:24
Lab Samp ID:	B208-08	Dilution Factor:	0.943
Lab File ID:	ID8B026073	Matrix :	SOIL
Ext Btch ID:	IPB043S	% Moisture :	NA
Calib. Ref.:	ID8B026063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	86.1	0.943	0.283

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/15/11 11:45
Project	: TAR CREEK OU4	Date Received:	02/18/11
SDG NO.	: 11B208	Date Extracted:	02/23/11 15:30
Sample ID:	CP093-S5-03-02	Date Analyzed:	02/24/11 17:35
Lab Samp ID:	B208-13	Dilution Factor:	1.00
Lab File ID:	ID8B026077	Matrix :	SOIL
Ext Btch ID:	IPB043S	% Moisture :	NA
Calib. Ref.:	ID8B026075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	26.4	1.00	0.300

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	02/23/11
SDG NO.	: 11B208	Date Extracted:	02/23/11 15:30
Sample ID:	MBLK1S	Date Analyzed:	02/24/11 17:03
Lab Samp ID:	IPB043SB	Dilution Factor:	1
Lab File ID:	ID8B026065	Matrix :	SOIL
Ext Btch ID:	IPB043S	% Moisture :	NA
Calib. Ref.:	ID8B026063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPB043SB	IPB043SL	IPB043SC		
LAB FILE ID:	ID8B026065	ID8B026066	ID8B026067		
DATIME EXTRCTD:	02/23/1115:30	02/23/1115:30	02/23/1115:30	DATE COLLECTED:	NA
DATIME ANALYZD:	02/24/1117:03	02/24/1117:05	02/24/1117:08	DATE RECEIVED:	02/23/11
PREP. BATCH:	IPB050S	IPB050S	IPB050S		
CALIB. REF:	ID8B026063	ID8B026063	ID8B026063		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	48.1	96	50	47.7	95	1	80-120	20

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	02/24/11
SDG NO.	: 11B208	Date Extracted:	02/24/11 13:48
Sample ID:	MBLK2S	Date Analyzed:	02/25/11 11:58
Lab Samp ID:	IPB050SB	Dilution Factor:	1
Lab File ID:	ID8B027037	Matrix :	SOIL
Ext Btch ID:	IPB050S	% Moisture :	NA
Calib. Ref.:	ID8B027035	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	IPB050SB	IPB050SL	IPB050SC		
LAB FILE ID:	ID8B027037	ID8B027038	ID8B027039		
DATIME EXTRCTD:	02/24/1113:48	02/24/1113:48	02/24/1113:48	DATE COLLECTED:	NA
DATIME ANALYZD:	02/25/1111:58	02/25/1112:01	02/25/1112:04	DATE RECEIVED:	02/24/11
PREP. BATCH:	IPB050S	IPB050S	IPB050S		
CALIB. REF:	ID8B027035	ID8B027035	ID8B027035		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	50.9	102	50	50	100	2	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	0.99	0.99	0.962		
SAMPLE ID:	CB231-08-02				
CONTROL NO.:	B208-02	B208-02M	B208-02S		
LAB FILE ID:	ID8B026069	ID8B026071	ID8B026072		
DATIME EXTRCTD:	02/23/1115:30	02/23/1115:30	02/23/1115:30	DATE COLLECTED:	02/14/11 12:00
DATIME ANALYZD:	02/24/1117:13	02/24/1117:19	02/24/1117:21	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB050S	IPB050S	IPB050S		
CALIB. REF:	ID8B026063	ID8B026063	ID8B026063		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	60.1	49.5	106	94	48.1	106	95	1	75-125	20

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.99	0.99		
SAMPLE ID:	CB231-08-02			
CONTROL NO.:	B208-02	B208-02A		
LAB FILE ID:	ID8B026069	ID8B026068		
DATIME EXTRCTD:	02/23/1115:30	02/23/1115:30	DATE COLLECTED:	02/14/11 12:00
DATIME ANALYZD:	02/24/1117:13	02/24/1117:11	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB050S	IPB050S		
CALIB. REF:	ID8B026063	ID8B026063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	60.1	49.5	107	95	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11B208
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.962	0.962		
SAMPLE ID:	CP091-13-01			
CONTROL NO.:	B208-05R	B208-05A		
LAB FILE ID:	ID8B027041	ID8B027059		
DATIME EXTRCTD:	02/24/1113:48	02/24/1113:48	DATE COLLECTED:	02/14/11 15:35
DATIME ANALYZD:	02/25/1112:09	02/25/1113:10	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB050S	IPB050S		
CALIB. REF:	ID8B027035	ID8B027057		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	48	48.1	94.1	96	75-125

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.99	4.95		
SAMPLE ID:	CB231-08-02	CB231-08-02DL		
EMAX SAMP ID:	B208-02	B208-02J		
LAB FILE ID:	ID8B026069	ID8B026070		
DATE EXTRACTED:	02/23/1115:30	02/23/1115:30	DATE COLLECTED:	02/14/11 12:00
DATE ANALYZED:	02/24/1117:13	02/24/1117:16	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB043S	IPB043S		
CALIB. REF:	ID8B026063	ID8B026063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	60.1	59.7	1	10

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11B208
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.962	4.81		
SAMPLE ID:	CP091-13-01	CP091-13-01DL		
EMAX SAMP ID:	B208-05R	B208-05J		
LAB FILE ID:	ID8B027041	ID8B027042		
DATE EXTRACTED:	02/24/1113:48	02/24/1113:48	DATE COLLECTED:	02/14/11 15:35
DATE ANALYZED:	02/25/1112:09	02/25/1112:12	DATE RECEIVED:	02/18/11
PREP. BATCH:	IPB050S	IPB050S		
CALIB. REF:	ID8B027035	ID8B027035		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	48.0	47.8	0	10

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 2/24/11 14:02

End Date: 2/24/11 20:55

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Book #: AD8-018

Instrument No.: D8

Analytical Batch: iD8B026

Analytical Sequence: S-11B6010 (V24)

Method File: 11B6010(V24)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-40-05	S30	SM1B14 0203
S1	MA	S31	0204
S2		ICV	~~2701~~ TH 2/24/11
S3		CCV	3805
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	MA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1,3	SM1B14-4109
S10		MRL2,4	1901
S11		ICV	SM1B14-4203
S12			
S16			
S17			
S18			
S20	SM1B14-3102		
S21	0101		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Comments:

B130-02W Mn>LDR -Tl
BS2b-01 diluted 5X due to yellow color (↑ Fe)
BS2b-01 @ 5X, Cu>LDR
B248-01T @10X, Fe>LDR
CCV12 } ↑Zn
CCV11 }

Analyzed By: TH

Date: 2/24/11

SEQUENCE FILE : ID8B026

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8B026001	Blank	14:02	02/24/11	1.000
ID8B026002	S20	14:06	02/24/11	1.000
ID8B026003	S21	14:09	02/24/11	1.000
ID8B026004	S22	14:11	02/24/11	1.000
ID8B026005	S23	14:14	02/24/11	1.000
ID8B026006	S24	14:17	02/24/11	1.000
ID8B026007	S25	14:20	02/24/11	1.000
ID8B026008	S26	14:23	02/24/11	1.000
ID8B026009	S27	14:26	02/24/11	1.000
ID8B026010	S28	14:29	02/24/11	1.000
ID8B026011	S29	14:32	02/24/11	1.000
ID8B026012	S30	14:35	02/24/11	1.000
ID8B026013	S31	14:38	02/24/11	1.000
ID8B026014	ICV	14:40	02/24/11	1.000
ID8B026015	ICB	14:43	02/24/11	1.000
ID8B026016	MLB02401	14:46	02/24/11	1.000
ID8B026017	MLB02402	14:49	02/24/11	1.000
ID8B026018	ICSA1	14:52	02/24/11	1.000
ID8B026019	ICSAB1	14:55	02/24/11	1.000
ID8B026020	CCV1	14:57	02/24/11	1.000
ID8B026021	CCB1	15:00	02/24/11	1.000
ID8B026022	IPB035SQ	15:03	02/24/11	1.000
ID8B026023	IPB035SX	15:06	02/24/11	1.000
ID8B026024	IPB035SY	15:09	02/24/11	1.000
ID8B026025	B130-06A	15:11	02/24/11	1.000
ID8B026026	B130-06W	15:14	02/24/11	1.000
ID8B026027	B130-06J	15:17	02/24/11	5.000
ID8B026028	B130-06G	15:20	02/24/11	1.000
ID8B026029	B130-06H	15:22	02/24/11	1.000
ID8B026030	B130-02W	15:25	02/24/11	1.000
ID8B026031	Blank	15:28	02/24/11	1.000
ID8B026032	CCV2	15:31	02/24/11	1.000
ID8B026033	CCB2	15:33	02/24/11	1.000
ID8B026034	B130-03W	15:36	02/24/11	1.000
ID8B026035	B130-04W	15:39	02/24/11	1.000
ID8B026036	B130-05W	15:42	02/24/11	1.000
ID8B026037	B208-09T	15:44	02/24/11	5.000
ID8B026038	Blank	15:47	02/24/11	1.000
ID8B026039	CCV3	15:50	02/24/11	1.000
ID8B026040	CCB3	15:53	02/24/11	1.000
ID8B026041	IPB046SB	15:55	02/24/11	1.000
ID8B026042	IPB046SL	15:58	02/24/11	1.000
ID8B026043	IPB046SC	16:01	02/24/11	1.000
ID8B026044	B526-01A	16:03	02/24/11	5.000
ID8B026045	B526-01T	16:06	02/24/11	5.000
ID8B026046	B526-01J	16:09	02/24/11	25.00
ID8B026047	B526-01M	16:12	02/24/11	5.000
ID8B026048	B526-01S	16:14	02/24/11	5.000
ID8B026049	B248-01T	16:17	02/24/11	10.00
ID8B026050	Blank	16:21	02/24/11	1.000
ID8B026051	CCV4	16:24	02/24/11	1.000
ID8B026052	CCB4	16:26	02/24/11	1.000
ID8B026053	B248-01I	16:29	02/24/11	20.00
ID8B026054	B508-01	16:32	02/24/11	1.000

ID8B026055	B508-02	16:35	02/24/11	1.000
ID8B026056	B508-03	16:38	02/24/11	1.000
ID8B026057	B508-04	16:40	02/24/11	1.000
ID8B026058	B508-05	16:43	02/24/11	1.000
ID8B026059	B508-06	16:46	02/24/11	1.000
ID8B026060	B508-07	16:48	02/24/11	1.000
ID8B026061	B508-08	16:51	02/24/11	1.000
ID8B026062	Blank	16:54	02/24/11	1.000
ID8B026063	CCV5	16:57	02/24/11	1.000
ID8B026064	CCB5	17:00	02/24/11	1.000
ID8B026065	IPB043SB	17:03	02/24/11	1.000
ID8B026066	IPB043SL	17:05	02/24/11	1.000
ID8B026067	IPB043SC	17:08	02/24/11	1.000
ID8B026068	B208-02A	17:11	02/24/11	1.000
ID8B026069	B208-02	17:13	02/24/11	1.000
ID8B026070	B208-02J	17:16	02/24/11	5.000
ID8B026071	B208-02M	17:19	02/24/11	1.000
ID8B026072	B208-02S	17:21	02/24/11	1.000
ID8B026073	B208-08	17:24	02/24/11	1.000
ID8B026074	Blank	17:27	02/24/11	1.000
ID8B026075	CCV6	17:30	02/24/11	1.000
ID8B026076	CCB6	17:32	02/24/11	1.000
ID8B026077	B208-13	17:35	02/24/11	1.000
ID8B026078	A236-01	17:38	02/24/11	1.000
ID8B026079	A236-01T	17:41	02/24/11	10.00
ID8B026080	Blank	17:44	02/24/11	1.000
ID8B026081	MRLB2403	17:46	02/24/11	1.000
ID8B026082	MRLB2404	17:49	02/24/11	1.000
ID8B026083	CCV7	17:52	02/24/11	1.000
ID8B026084	CCB7	17:55	02/24/11	1.000
ID8B026085	IPB044WB	17:58	02/24/11	1.000
ID8B026086	IPB044WL	18:01	02/24/11	1.000
ID8B026087	IPB044WC	18:03	02/24/11	1.000
ID8B026088	B196-12A	18:06	02/24/11	1.000
ID8B026089	B196-12	18:08	02/24/11	1.000
ID8B026090	B196-12J	18:11	02/24/11	5.000
ID8B026091	B196-12M	18:14	02/24/11	1.000
ID8B026092	B196-12S	18:16	02/24/11	1.000
ID8B026093	B193-13	18:19	02/24/11	1.000
ID8B026094	Blank	18:22	02/24/11	1.000
ID8B026095	CCV8	18:24	02/24/11	1.000
ID8B026096	CCB8	18:27	02/24/11	1.000
ID8B026097	B173-04	18:30	02/24/11	1.000
ID8B026098	B173-05	18:33	02/24/11	1.000
ID8B026099	B173-06	18:36	02/24/11	1.000
ID8B026100	B204-05	18:38	02/24/11	1.000
ID8B026101	B204-07	18:41	02/24/11	1.000
ID8B026102	B204-09	18:44	02/24/11	1.000
ID8B026103	B180-01	18:47	02/24/11	1.000
ID8B026104	B203-01	18:50	02/24/11	1.000
ID8B026105	B201-01	18:52	02/24/11	1.000
ID8B026106	Blank	18:55	02/24/11	1.000
ID8B026107	CCV9	18:58	02/24/11	1.000
ID8B026108	CCB9	19:01	02/24/11	1.000
ID8B026109	B201-01M	19:03	02/24/11	1.000
ID8B026110	B201-01S	19:06	02/24/11	1.000
ID8B026111	B525-01	19:09	02/24/11	1.000

ID8B026112	B526-01A	19:11	02/24/11	50.00
ID8B026113	B526-01T	19:14	02/24/11	50.00
ID8B026114	B526-01J	19:17	02/24/11	250.0
ID8B026115	B516-03	19:19	02/24/11	1.000
ID8B026116	B516-04	19:22	02/24/11	1.000
ID8B026117	Blank	19:25	02/24/11	1.000
ID8B026118	CCV10	19:28	02/24/11	1.000
ID8B026119	CCB10	19:30	02/24/11	1.000
ID8B026120	IPB045SB	19:33	02/24/11	1.000
ID8B026121	IPB045SL	19:36	02/24/11	1.000
ID8B026122	IPB045SC	19:39	02/24/11	1.000
ID8B026123	B225-15A	19:41	02/24/11	1.000
ID8B026124	B225-15	19:44	02/24/11	1.000
ID8B026125	B225-15J	19:46	02/24/11	5.000
ID8B026126	B225-15M	19:49	02/24/11	1.000
ID8B026127	B225-15S	19:52	02/24/11	1.000
ID8B026128	B225-01	19:54	02/24/11	1.000
ID8B026129	Blank	19:57	02/24/11	1.000
ID8B026130	CCV11	20:00	02/24/11	1.000
ID8B026131	CCB11	20:02	02/24/11	1.000
ID8B026132	B225-02	20:05	02/24/11	1.000
ID8B026133	B225-03	20:08	02/24/11	1.000
ID8B026134	B225-04	20:11	02/24/11	1.000
ID8B026135	B225-05	20:14	02/24/11	1.000
ID8B026136	B225-06	20:16	02/24/11	1.000
ID8B026137	B225-07	20:19	02/24/11	1.000
ID8B026138	B225-08	20:22	02/24/11	1.000
ID8B026139	B225-09	20:24	02/24/11	1.000
ID8B026140	B225-10	20:27	02/24/11	1.000
ID8B026141	Blank	20:30	02/24/11	1.000
ID8B026142	CCV12	20:33	02/24/11	1.000
ID8B026143	CCB12	20:35	02/24/11	1.000
ID8B026144	B225-11	20:38	02/24/11	1.000
ID8B026145	B225-12	20:41	02/24/11	1.000
ID8B026146	B225-13	20:44	02/24/11	1.000
ID8B026147	B225-14	20:47	02/24/11	1.000
ID8B026148	Blank	20:49	02/24/11	1.000
ID8B026149	CCV13	20:52	02/24/11	1.000
ID8B026150	CCB13	20:55	02/24/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8B026 DATE : 02/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	97	103	99	99	98	99	101	98	92	101	99	96	106	92	93	98	99	98	102	100	105	96	92	98	98	96	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	101	----	----	----	----	----	----	95	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	101	105	109	107	98	106	98	94	96	95	110	93	95	115	94	92	103	100	105	108	111	110	99	85	100	98	98	108
CCV1	107	101	105	99	97	98	98	100	98	96	101	98	96	106	92	92	100	99	98	104	101	104	97	93	103	97	97	108
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	106	101	104	99	97	98	97	100	97	95	100	98	95	105	92	92	100	98	98	103	100	103	97	92	102	97	96	107
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	106	99	103	98	97	97	96	101	97	95	100	98	95	105	92	92	100	98	97	102	99	103	96	91	102	97	96	107
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	107	100	103	99	97	98	97	99	97	95	101	98	95	106	91	92	100	99	97	102	100	103	96	91	103	97	96	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B508-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	106	100	103	98	97	97	97	101	97	95	100	98	95	105	92	92	100	98	97	102	100	103	96	91	102	97	96	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	107	101	105	98	97	98	99	100	98	95	100	99	95	104	92	92	100	98	96	104	100	102	96	93	103	98	97	108
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	108	101	105	99	98	98	99	101	98	95	101	100	95	105	93	92	100	98	96	103	100	102	95	93	102	98	97	108
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B193-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	106	100	105	99	98	99	101	102	100	95	100	100	95	105	94	94	99	98	98	104	101	103	97	94	101	98	99	108
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B180-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	110	102	107	100	100	100	101	103	100	96	103	102	96	106	95	94	101	99	98	105	102	104	97	95	103	100	100	110
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B525-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	110	102	108	101	100	100	103	104	101	96	102	103	96	105	97	96	100	99	99	106	103	104	97	96	102	100	100	110
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	110	102	108	100	100	100	103	104	102	95	102	104	96	105	97	95	100	99	98	105	103	104	96	97	103	100	100	111*
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	109	101	109	100	101	101	106	106	104	95	102	104	95	105	98	97	99	99	100	106	104	105	98	98	101	100	102	111*
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	110	102	110	101	101	101	106	105	104	96	103	103	95	105	98	97	99	99	100	107	104	105	98	98	101	100	102	111*
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B026 (WATER) DATE : 02/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	12.0	1.09	-1.01	.400	.100	6.02	.090	-15.3	.260	-.020	.520	4.51	.380	.170	6.48	.220	.500	.020	48.9	.940	.130	-35.9	.100	.030	.160	.020	.090	-1.24
MLB02401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.17	.150	3.91	-.060	24.4	1.85	----	.920	-1.70	1.81	----	2.96	7.03	----	.640	-1.83	-.430	-60.3	2.16	.410	-27.0	-.460	1.07	3.13	2.54	-1.15	-.110
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	79.4	1.01	-.420	.690	.160	6.16	.250	16.7	.490	.080	.590	30.4	-.360	-.220	23.8	.270	.710	.120	55.6	.400	.220	-16.2	.130	-.210	.180	-.170	.140	-1.27
IPB035SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	23.6	1.12	-.130	1.30	.270	5.84	.180	66.7	.510	.140	.790	8.61	.190	.070	22.7	.630	.580	.100	32.6	-.130	-.120	-48.1	.170	-.020	.200	.190	.100	2.43
B130-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	22.5	1.51	-.460	1.000	.190	5.90	.280	57.4	.450	.250	.690	9.76	.420	-.220	15.6	.350	.800	.350	8.61	.970	.040	-57.3	.170	.620	.430	.000	.180	2.31
IPB046SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	21.1	1.65	.400	1.50	.420	5.75	.120	64.9	.500	.060	2.28	21.2	-.180	.130	19.6	.850	.650	.300	26.0	.310	.030	-58.6	.270	.040	.080	.400	.040	1.68
B248-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B508-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	24.1	1.43	.230	1.24	.340	4.79	.150	59.3	.590	.120	.910	5.56	.110	-.160	21.7	.640	.880	.220	-3.62	.630	-.020	-66.1	.160	-.210	.330	-.040	.140	1.92
IPB043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	30.5	1.30	.200	1.30	.410	5.85	.330	67.9	.650	.090	.960	9.98	.470	.100	25.6	.580	1.000	.450	34.5	.920	.170	-57.8	.230	.150	.150	.210	.230	2.51
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.5	1.63	-1.06	1.55	.710	5.66	.290	78.7	.800	.180	1.02	9.58	.260	.610	32.7	1.21	.840	.180	23.8	.300	.090	-55.0	.250	.460	.410	.080	.280	1.59
IPB044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B193-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	24.9	1.48	.020	1.10	.290	5.83	.450	59.5	.590	.220	.700	4.36	.360	-.060	15.9	.360	1.06	.360	5.14	.850	.010	-52.0	.180	.550	.550	.330	.200	2.21
B173-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B180-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	30.2	1.16	-.100	2.61	.430	5.35	.330	257	.740	.190	.870	6.40	.600	.020	24.2	.800	1.02	.550	14.4	.410	.060	-45.2	.260	.900	.280	.080	.340	10.0
B201-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B525-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	32.8	1.07	-.180	3.19	.480	5.60	.500	253	.870	.260	.900	7.45	.550	.160	23.3	.830	1.12	.750	9.26	.790	.100	-46.3	.310	.580	.630	.470	.390	9.93
IPB045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	20.1	1.22	-.510	2.23	.320	5.20	.290	243	.450	.050	.610	8.84	.860	.080	18.4	.710	.840	.420	8.42	.310	-.010	-58.4	.160	.210	.360	.760	.210	9.88
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	41.0	.620	.710	2.69	.590	5.36	.600	298	1.02	.280	.910	13.5	.700	.170	23.5	1.16	1.19	.700	18.0	1.16	.200	-56.7	.330	.710	.360	.210	.370	12.0
B225-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	29.2	1.12	1.17	2.25	.420	5.33	.370	252	.620	.280	.700	9.05	.540	.410	30.9	.960	.960	.290	4.07	.850	.060	-62.9	.260	.330	.170	.360	.220	10.8

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

7998

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B026 (SOIL) DATE : 02/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	12.0	1.09	-1.01	.400	.100	6.02	.090	-15.3	.260	-.020	.520	4.51	.380	.170	6.48	.220	.500	.020	48.9	.940	.130	-35.9	.100	.030	.160	.020	.090	-1.24
MLB02401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MLB02402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.17	.150	3.91	-.060	24.4	1.85	----	.920	-1.70	1.81	----	2.96	7.03	----	.640	-1.83	-.430	-60.3	2.16	.410	-27.0	-.460	1.07	3.13	2.54	-1.15	-.110
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	79.4	1.01	-.420	.690	.160	6.16	.250	16.7	.490	.080	.590	30.4	-.360	-.220	23.8	.270	.710	.120	55.6	.400	.220	-16.2	.130	-.210	.180	-.170	.140	-1.27
IPB035SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB035SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-06H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	23.6	1.12	-.130	1.30	.270	5.84	.180	66.7	.510	.140	.790	8.61	.190	.070	22.7	.630	.580	.100	32.6	-.130	-.120	-48.1	.170	-.020	.200	.190	.100	2.43
B130-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B130-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	22.5	1.51	-.460	1.000	.190	5.90	.280	57.4	.450	.250	.690	9.76	.420	-.220	15.6	.350	.800	.350	8.61	.970	.040	-57.3	.170	.620	.430	.000	.180	2.31
IPB046SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB046SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B248-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	21.1	1.65	.400	1.50	.420	5.75	.120	64.9	.500	.060	2.28	21.2	-.180	.130	19.6	.850	.650	.300	26.0	.310	.030	-58.6	.270	.040	.080	.400	.040	1.68
B248-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B508-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B508-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	24.1	1.43	.230	1.24	.340	4.79	.150	59.3	.590	.120	.910	5.56	.110	-.160	21.7	.640	.880	.220	-3.62	.630	-.020	-66.1	.160	-.210	.330	-.040	.140	1.92
IPB043SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB043SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	30.5	1.30	.200	1.30	.410	5.85	.330	67.9	.650	.090	.960	9.98	.470	.100	25.6	.580	1.000	.450	34.5	.920	.170	-57.8	.230	.150	.150	.210	.230	2.51
B208-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A236-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.5	1.63	-1.06	1.55	.710	5.66	.290	78.7	.800	.180	1.02	9.58	.260	.610	32.7	1.21	.840	.180	23.8	.300	.090	-55.0	.250	.460	.410	.080	.280	1.59
IPB044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B196-12S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B193-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	24.9	1.48	.020	1.10	.290	5.83	.450	59.5	.590	.220	.700	4.36	.360	-.060	15.9	.360	1.06	.360	5.14	.850	.010	-52.0	.180	.550	.550	.330	.200	2.21
B173-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B180-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B203-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	30.2	1.16	-.100	2.61	.430	5.35	.330	257	.740	.190	.870	6.40	.600	.020	24.2	.800	1.02	.550	14.4	.410	.060	-45.2	.260	.900	.280	.080	.340	10.0
B201-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B201-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B525-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B516-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	32.8	1.07	-.180	3.19	.480	5.60	.500	253	.870	.260	.900	7.45	.550	.160	23.3	.830	1.12	.750	9.26	.790	.100	-46.3	.310	.580	.630	.470	.390	9.93
IPB045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-15S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	20.1	1.22	-.510	2.23	.320	5.20	.290	243	.450	.050	.610	8.84	.860	.080	18.4	.710	.840	.420	8.42	.310	-.010	-58.4	.160	.210	.360	.760	.210	9.88
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	41.0	.620	.710	2.69	.590	5.36	.600	298	1.02	.280	.910	13.5	.700	.170	23.5	1.16	1.19	.700	18.0	1.16	.200	-56.7	.330	.710	.360	.210	.370	12.0
B225-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	29.2	1.12	1.17	2.25	.420	5.33	.370	252	.620	.280	.700	9.05	.540	.410	30.9	.960	.960	.290	4.07	.850	.060	-62.9	.260	.330	.170	.360	.220	10.8

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8B026001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8B026002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8B026003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8B026004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8B026005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8B026006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8B026007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8B026008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8B026009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8B026010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8B026011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8B026012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8B026013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8B026014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8B026015			1	☒	3XIDL	None
16	27	2	3	3	QC	MLB02401		ID8B026016			1	☒	MRL-EMAX	None
17	3	2	3	1	QC	MLB02402		ID8B026017			1	☒	MRL-AFCEE	None
18	4	2	4	1	QC	ICSA1		ID8B026018			1	☒	ICSA	None
19	5	2	5	1	QC	ICSAB1		ID8B026019			1	☒	ICSAB	None
20	6	2	6	1	QC	CCV1		ID8B026020			1	☒	CCV	None
21	7	2	7	1	QC	CCB1		ID8B026021			1	☒	3XIDL	None
22	8	2	8	1	QC	IPB035SQ		ID8B026022			1	☒	1/2LOQ	None
23	9	2	9	1	QC	IPB035SX		ID8B026023			1	☒	LCS	None
24	10	2	10	1	QC	IPB035SY		ID8B026024			1	☒	LCS	None
25	11	2	11	1	Unk	B130-06A		ID8B026025			1	☒	unk	---
26	12	2	12	1	Unk	B130-06W		ID8B026026			1	☒	unk	---
27	13	2	1	2	Unk	B130-06J		ID8B026027			1	☒	unk	---
28	14	2	2	2	Unk	B130-06G		ID8B026028			1	☒	unk	---
29	15	2	3	2	Unk	B130-06H		ID8B026029			1	☒	unk	---
30	16	2	4	2	Unk	B130-02W		ID8B026030			1	☒	unk	---
31	17	2	5	2	Blank	Blank		ID8B026031			1	☐		---
32	18	2	6	2	QC	CCV2		ID8B026032			1	☒	CCV	None
33	19	2	7	2	QC	CCB2		ID8B026033			1	☒	3XIDL	None
34	20	2	8	2	Unk	B130-03W		ID8B026034			1	☒	unk	---
35	21	2	9	2	Unk	B130-04W		ID8B026035			1	☒	unk	---
36	22	2	10	2	Unk	B130-05W		ID8B026036			1	☒	unk	---
37	23	2	11	2	Unk	B208-09T	5X	ID8B026037			1	☒	unk	---
38	24	2	12	2	Blank	Blank		ID8B026038			1	☐		---
39	25	2	1	3	QC	CCV3		ID8B026039			1	☒	CCV	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	26	2	2	3	QC	CCB3		ID8B026040			1	☒	3XIDL	None
41	28	2	4	3	QC	IPB046SB		ID8B026041			1	☒	1/2LOQ	None
42	29	2	5	3	QC	IPB046SL		ID8B026042			1	☒	LCS	None
43	30	2	6	3	QC	IPB046SC		ID8B026043			1	☒	LCS	None
44	31	2	7	3	Unk	B526-01A	5X YELLOW	ID8B026044			1	☒	unk	---
45	32	2	8	3	Unk	B526-01T	5X YELLOW	ID8B026045			1	☒	unk	---
46	33	2	9	3	Unk	B526-01J	25X YELLOW	ID8B026046			1	☒	unk	---
47	34	2	10	3	Unk	B526-01M	5X YELLOW	ID8B026047			1	☒	unk	---
48	35	2	11	3	Unk	B526-01S	5X YELLOW	ID8B026048			1	☒	unk	---
49	36	2	12	3	Unk	B248-01T	10X YELLOW	ID8B026049			1	☒	unk	---
50	37	2	1	4	Blank	Blank		ID8B026050			1	☐		---
51	38	2	2	4	QC	CCV4		ID8B026051			1	☒	CCV	None
52	39	2	3	4	QC	CCB4		ID8B026052			1	☒	3XIDL	None
53	134	4	2	2	Unk	B248-01I	20X	ID8B026053			1	☒	unk	---
54	40	2	4	4	Unk	B508-01		ID8B026054			1	☒	unk	---
55	41	2	5	4	Unk	B508-02		ID8B026055			1	☒	unk	---
56	42	2	6	4	Unk	B508-03		ID8B026056			1	☒	unk	---
57	43	2	7	4	Unk	B508-04		ID8B026057			1	☒	unk	---
58	44	2	8	4	Unk	B508-05		ID8B026058			1	☒	unk	---
59	45	2	9	4	Unk	B508-06		ID8B026059			1	☒	unk	---
60	46	2	10	4	Unk	B508-07		ID8B026060			1	☒	unk	---
61	47	2	11	4	Unk	B508-08		ID8B026061			1	☒	unk	---
62	48	2	12	4	Blank	Blank		ID8B026062			1	☐		---
63	49	2	1	5	QC	CCV5		ID8B026063			1	☒	CCV	None
64	50	2	2	5	QC	CCB5		ID8B026064			1	☒	3XIDL	None
65	83	3	11	2	QC	IPB043SB		ID8B026065			1	☒	1/2LOQ	None
66	84	3	12	2	QC	IPB043SL		ID8B026066			1	☒	LCS	None
67	85	3	1	3	QC	IPB043SC		ID8B026067			1	☒	LCS	None
68	86	3	2	3	Unk	B208-02A	dried & sieved	ID8B026068			1	☒	unk	---
69	87	3	3	3	Unk	B208-02	dried & sieved	ID8B026069			1	☒	unk	---
70	88	3	4	3	Unk	B208-02J	dried & sieved	ID8B026070			1	☒	unk	---
71	89	3	5	3	Unk	B208-02M	dried & sieved	ID8B026071			1	☒	unk	---
72	90	3	6	3	Unk	B208-02S	dried & sieved	ID8B026072			1	☒	unk	---
73	91	3	7	3	Unk	B208-08	⊥	ID8B026073			1	☒	unk	---
74	92	3	8	3	Blank	Blank	TH 2/25/11	ID8B026074			1	☐		---
75	93	3	9	3	QC	CCV6		ID8B026075			1	☒	CCV	None
76	94	3	10	3	QC	CCB6		ID8B026076			1	☒	3XIDL	None
77	95	3	11	3	Unk	B208-13	dried & sieved	ID8B026077			1	☒	unk	---
78	96	3	12	3	Unk	A236-01		ID8B026078			1	☒	unk	---

T1053

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	97	3	1	4	Unk	A236-01T	10X	ID8B026079			1	☒	unk	---
80	98	3	2	4	Blank	Blank		ID8B026080			1	☐		---
81	99	3	3	4	QC	MRLB2403		ID8B026081			1	☒	MRL-EMAX	None
82	100	3	4	4	QC	MRLB2404		ID8B026082			1	☒	MRL-AFCEE	None
83	101	3	5	4	QC	CCV7		ID8B026083			1	☒	CCV	None
84	102	3	6	4	QC	CCB7		ID8B026084			1	☒	3XIDL	None
85	51	2	3	5	QC	IPB044WB		ID8B026085			1	☒	1/2LOQ	None
86	52	2	4	5	QC	IPB044WL		ID8B026086			1	☒	LCS	None
87	53	2	5	5	QC	IPB044WC		ID8B026087			1	☒	LCS	None
88	54	2	6	5	Unk	B196-12A		ID8B026088			1	☒	unk	---
89	55	2	7	5	Unk	B196-12		ID8B026089			1	☒	unk	---
90	56	2	8	5	Unk	B196-12J		ID8B026090			1	☒	unk	---
91	57	2	9	5	Unk	B196-12M		ID8B026091			1	☒	unk	---
92	58	2	10	5	Unk	B196-12S		ID8B026092			1	☒	unk	---
93	59	2	11	5	Unk	B193-13		ID8B026093			1	☒	unk	---
94	60	2	12	5	Blank	Blank		ID8B026094			1	☐		---
95	61	3	1	1	QC	CCV8		ID8B026095			1	☒	CCV	None
96	62	3	2	1	QC	CCB8		ID8B026096			1	☒	3XIDL	None
97	63	3	3	1	Unk	B173-04		ID8B026097			1	☒	unk	---
98	64	3	4	1	Unk	B173-05		ID8B026098			1	☒	unk	---
99	65	3	5	1	Unk	B173-06		ID8B026099			1	☒	unk	---
100	66	3	6	1	Unk	B204-05		ID8B026100			1	☒	unk	---
101	67	3	7	1	Unk	B204-07		ID8B026101			1	☒	unk	---
102	68	3	8	1	Unk	B204-09		ID8B026102			1	☒	unk	---
103	69	3	9	1	Unk	B180-01		ID8B026103			1	☒	unk	---
104	70	3	10	1	Unk	B203-01		ID8B026104			1	☒	unk	---
105	71	3	11	1	Unk	B201-01		ID8B026105			1	☒	unk	---
106	72	3	12	1	Blank	Blank		ID8B026106			1	☐		---
107	73	3	1	2	QC	CCV9		ID8B026107			1	☒	CCV	None
108	74	3	2	2	QC	CCB9		ID8B026108			1	☒	3XIDL	None
109	75	3	3	2	Unk	B201-01M		ID8B026109			1	☒	unk	---
110	76	3	4	2	Unk	B201-01S		ID8B026110			1	☒	unk	---
111	77	3	5	2	Unk	B525-01		ID8B026111			1	☒	unk	---
112	135	4	3	2	Unk	B526-01A	50X	ID8B026112			1	☒	unk	---
113	136	4	4	2	Unk	B526-01T	50X	ID8B026113			1	☒	unk	---
114	137	4	5	2	Unk	B526-01J	250X	ID8B026114			1	☒	unk	---
115	78	3	6	2	Unk	B516-03		ID8B026115			1	☒	unk	---
116	79	3	7	2	Unk	B516-04		ID8B026116			1	☒	unk	---
117	80	3	8	2	Blank	Blank		ID8B026117			1	☐		---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	81	3	9	2	QC	CCV10		ID8B026118			1	☒	CCV	None
119	82	3	10	2	QC	CCB10		ID8B026119			1	☒	3XIDL	None
120	103	3	7	4	QC	IPB045SB		ID8B026120			1	☒	1/2LOQ	None
121	104	3	8	4	QC	IPB045SL		ID8B026121			1	☒	LCS	None
122	105	3	9	4	QC	IPB045SC		ID8B026122			1	☒	LCS	None
123	106	3	10	4	Unk	B225-15A		ID8B026123			1	☒	unk	---
124	107	3	11	4	Unk	B225-15		ID8B026124			1	☒	unk	---
125	108	3	12	4	Unk	B225-15J		ID8B026125			1	☒	unk	---
126	109	3	1	5	Unk	B225-15M		ID8B026126			1	☒	unk	---
127	110	3	2	5	Unk	B225-15S		ID8B026127			1	☒	unk	---
128	111	3	3	5	Unk	B225-01		ID8B026128			1	☒	unk	---
129	112	3	4	5	Blank	Blank		ID8B026129			1	☐		---
130	113	3	5	5	QC	CCV11		ID8B026130			1	☒	CCV	None
131	114	3	6	5	QC	CCB11		ID8B026131			1	☒	3XIDL	None
132	115	3	7	5	Unk	B225-02		ID8B026132			1	☒	unk	---
133	116	3	8	5	Unk	B225-03		ID8B026133			1	☒	unk	---
134	117	3	9	5	Unk	B225-04		ID8B026134			1	☒	unk	---
135	118	3	10	5	Unk	B225-05		ID8B026135			1	☒	unk	---
136	119	3	11	5	Unk	B225-06		ID8B026136			1	☒	unk	---
137	120	3	12	5	Unk	B225-07		ID8B026137			1	☒	unk	---
138	121	4	1	1	Unk	B225-08		ID8B026138			1	☒	unk	---
139	122	4	2	1	Unk	B225-09		ID8B026139			1	☒	unk	---
140	123	4	3	1	Unk	B225-10		ID8B026140			1	☒	unk	---
141	124	4	4	1	Blank	Blank		ID8B026141			1	☐		---
142	125	4	5	1	QC	CCV12	Zn	ID8B026142			1	☒	CCV	None
143	126	4	6	1	QC	CCB12		ID8B026143			1	☒	3XIDL	None
144	127	4	7	1	Unk	B225-11		ID8B026144			1	☒	unk	---
145	128	4	8	1	Unk	B225-12		ID8B026145			1	☒	unk	---
146	129	4	9	1	Unk	B225-13		ID8B026146			1	☒	unk	---
147	130	4	10	1	Unk	B225-14		ID8B026147			1	☒	unk	---
148	131	4	11	1	Blank	Blank		ID8B026148			1	☐		---
149	132	4	12	1	QC	CCV13		ID8B026149			1	☒	CCV	None
150	133	4	1	2	QC	CCB13		ID8B026150			1	☒	3XIDL	None

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Status

Revision	24	
Date Created	8/14/2006 16:36:29	by admin
Date Modified	2/24/2011 10:31:55	by admin
Date Calibrated	2/24/2011 14:40:45	
Current Status	by admin	
Number of Elements	31	
Number of Wavelengths	33	
Locked	No	
Notes:		

Analysis Preferences

Sample Options	# Repeats:	3			
	Delay Time:	0.0 seconds			
	Sample Flush Time:	11 seconds			
Source	Sample Introduction	Nebulizer			
	Plasma View:	Line Selection			
Analysis Maximum Integration Times (sec)	Low WL Range	Axial	15	Radial	15
	High WL Range:	Axial	10	Radial	5
Calibration Mode	Concentration				
Trailing Full Frame Options	Intelli-Frame:		No		
	Max Integration Time (sec):		30		
	WL Range:		Low		
	View:		Axial		
Auto-Increment Sample Names:	Yes				
Use Sample Weight Corrections:	No				

Source Settings

Nebulizer Pump	Flush Pump Rate (rpm):	75	
	Analysis Pump Rate (rpm):	23	
	Pump Relaxation Time (sec	2	
	Pump Tubing Type:	Tygon Orange/White	
RF Power:	1150	W	
Nebulizer Flow:	0.55	L/min	
Auxiliary Gas:	0.5	L/min	

ID8B026 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00113	.00002	-.00001	.00029	.00011	.00028	-.00003	.00086	-.00001	-.00092	Blank
2	S20					.86570		.10981				S20
3	S21					8.6719		1.0735				S21
4	S22				.50672						.15871	S22
5	S23				4.9122						1.6478	S23
6	S24						.09305					S24
7	S25						.96091					S25
8	S26	.27645							.88361	.12825		S26
9	S27	9.7475							8.1124	1.2272		S27
10	S28		.00552									S28
11	S29		.05453									S29
12	S30			.00130								S30
13	S31			.00517								S31
14	ICV	107.00	1.4609	1.0337	1.9763	1.4873	2.4483	1.9860	75.592	2.4391	.92089	ICV
15	ICB	.01203	.00109	-.00101	.00040	.00010	.00602	.00009	-.01535	.00026	-.00002	ICB
16	MLB02401	.22209	.10131	.00940	.01003	.00989	.01237*	.01033	.98888	.01042	.00911	MLB02401
17	MLB02402	.22974	.05174	.00977	.00540	.00419	.09636	.00521	.50966	.01044	.00906	MLB02402
18	ICSA1	402.31	.00717	.00015	.00391	-.00006	.02442	.00185	474.10	.00092	-.00170	ICSA1
19	ICSAB1	403.32	1.0531	1.0865	.53500	.49121	.52832	.98135	468.61	.48233	.47253	ICSAB1
20	CCV1	106.65	1.5224	1.0525	1.9794	1.4580	2.4593	1.9673	75.172	2.4398	.95518	CCV1
21	CCB1	.07940	.00101	-.00042	.00069	.00016	.00616	.00025	.01675	.00049	.00008	CCB1
22	IPB035SQ	.10207*	.00186	-.00167	.00156	.00020	.00798	-.00014	.26766	.00113	-.00008	IPB035SQ
23	IPB035SX	5.4087	2.5236	.52282	.51551	.51427	.48105	.51868	51.879	.52496	.50765	IPB035SX
24	IPB035SY	5.3743	2.4740	.51648	.51351	.51190	.47847	.51432	52.369	.52303	.50546	IPB035SY
25	B130-06A	111.79	2.3978	.62643	1.5445	.51783	.54194	.50763	51.024	.79563	.56514	B130-06A
26	B130-06W	106.12	.01553	.10363	1.0468	.00467	.09527	.00187	.31342	.28679	.05361	B130-06W
27	B130-06J	22.894	.00383	.01996	.21243	.00094	.01725	-.00033	.06396	.05807	.01049	B130-06J
28	B130-06G	177.01	2.0280	.61093	2.0673	.50664	.54430	.50040	50.420	.75513	.54440	B130-06G
29	B130-06H	172.16	2.0903	.60934	2.3639	.50864	.55816	.49655	50.815	.75876	.59048	B130-06H
30	B130-02W	88.408	.00836	.05981	2.4884	.01411	.04888	.00012	8.0501	.13239	.29508	B130-02W
31	Blank	.07967	.00164	-.00061	.00419	.00033	.00171	.00041	1.3301	.00086	.00031	Blank
32	CCV2	106.42	1.5091	1.0384	1.9766	1.4547	2.4403	1.9413	75.319	2.4193	.95125	CCV2
33	CCB2	.02357	.00112	-.00013	.00130	.00027*	.00584	.00018	.06668	.00051	.00014	CCB2
34	B130-03W	70.397	.01406	.07067	.36438	.00402	.04464	.00056	4.4427	.50013	.02913	B130-03W
35	B130-04W	99.808	.04121	.10602	.82203	.00524	.05628	-.00039	6.0734	.20406	.07867	B130-04W
36	B130-05W	84.771	.01178	.05421	.63384	.00415	.06085	.00041	.51067	.25605	.04265	B130-05W
37	B208-09T	17.837	.00443	.04236	.32628	.00230	.01727	.00396	7.6204	.07317	.04023	B208-09T
38	Blank	.02385	.00194	-.00222	.00098	-.00003	-.00048	-.00023	-.00386	.00022	-.00004	Blank
39	CCV3	106.08	1.4888	1.0285	1.9558	1.4555	2.4342	1.9286	75.722	2.4248	.95067	CCV3
40	CCB3	.02251	.00151	-.00046	.00100	.00019	.00590	.00028	.05744	.00045	.00025	CCB3
41	IPB046SB	.04422	.00147	-.00226	.00068	.00037	.00312	.00001	.02402	.00103	.00001	IPB046SB
42	IPB046SL	5.2916	2.4692	.51117	.50688	.50878	.46885	.51185	51.507	.51890	.50396	IPB046SL
43	IPB046SC	5.2474	2.4370	.50288	.50028	.50076	.46341	.50052	50.415	.50905	.49542	IPB046SC
44	B526-01A	13.306	2.5607	.56355	.86340	.51944	.52868	.51436	138.06	.76721	.51621	B526-01A
45	B526-01T	7.3511	.04536	.01364	.34929	.00026	.03121	.00288	88.937	.25575	.01124	B526-01T
46	B526-01J	1.4302	.00941	.00256	.06895	.00006	.00734	.00048	17.881	.05129	.00210	B526-01J
47	B526-01M	7.1101	.52148	.11701	.34242	.10453	.15320	.10623	58.934	1.2767	.12571	B526-01M
48	B526-01S	10.577	.50576	.13798	.32159	.10248	.13590	.10284	62.064	.22856	.11903	B526-01S
49	B248-01T	2.2993	.03798	.10008	8.2440	.00002	.11599	.00622	2.4112	1.0510	.05328	B248-01T
50	Blank	.00530	.00051	-.00176	.00241	.00000	.00058	-.00006	.00430	.00038	-.00004	Blank
51	CCV4	107.10	1.5001	1.0335	1.9736	1.4575	2.4439	1.9311	74.592	2.4237	.95113	CCV4
52	CCB4	.02105	.00165	.00040	.00150	.00042*	.00575	.00012	.06488	.00050	.00006	CCB4
53	B248-01I	1.1226	.01880	.04751	4.2109	-.00004	.05460	.00062	1.1851	.52874	.02636	B248-01I
54	B508-01	.32124	.00022	.01079	.04089	.00005	.01639	.00053	13.340	.00692	.00037	B508-01

55	B508-02	1.5299	.00156	.01058	.10177	.00015	.04912	.00137	48.676	.01081	.00257	B508-02
56	B508-03	2.2774	.00167	.03407	.03986	.00012	.02762	.00177	103.10	.01672	.00279	B508-03
57	B508-04	.18836	.00062	-.00095	.01972	-.00002	.01164	.00295	6.3629	.00250	.00026	B508-04
58	B508-05	.99454	.00297	.05046	.04213	.00002	.02354	.00257	22.535	.01217	.00603	B508-05
59	B508-06	.88725	.00094	.00038	.10830	-.00001	.02738	.00174	9.3091	.00890	.00175	B508-06
60	B508-07	.52508	.00410	.00183	.21441	.00003	.12159	.00935	33.527	.05053	.00221	B508-07
61	B508-08	.07085	.00017	-.00040	.08932	.00006	.07428	.00008	14.618	.00357	.00014	B508-08
62	Blank	.00080	.00026	-.00052	.00039	-.00003	.00012	-.00002	.00139	.00006	-.00004	Blank
63	CCV5	106.36	1.4938	1.0283	1.9662	1.4555	2.4336	1.9301	75.399	2.4330	.95144	CCV5
64	CCB5	.02409	.00143	.00023	.00124	.00034*	.00479	.00015	.05933	.00059	.00012	CCB5
65	IPB043SB	.01524	.00135	-.00137	.00065	.00010	.00041	-.00012	-.02394	.00058	-.00009	IPB043SB
66	IPB043SL	5.1646	2.3690	.49236	.48698	.48606	.44832	.48966	49.304	.49582	.48048	IPB043SL
67	IPB043SC	5.1171	2.3273	.48676	.48167	.48180	.44126	.48211	48.306	.48920	.47548	IPB043SC
68	B208-02A	94.850	2.4129	.58324	1.8630	.51946	.49106	.58985	93.082	.63350	.54774	B208-02A
69	B208-02	90.413	.01219	.05701	1.4000	.00776	.03426	.09370	44.600	.12914	.04127	B208-02
70	B208-02J	18.703	.00287	.01135	.27630	.00159	.00774	.01922	9.0016	.02622	.00804	B208-02J
71	B208-02M	145.23	1.9902	.54197	1.9417	.48624	.45019	.55660	92.646	.64308	.51047	B208-02M
72	B208-02S	152.03	2.0321	.54935	2.0264	.49082	.46039	.56502	95.287	.65532	.51949	B208-02S
73	B208-08	89.799	.01836	.07024	1.1224	.00711	.03445	.00657	119.02	.15062	.04568	B208-08
74	Blank	.07072	.00106	-.00041	.00051	.00000	.00071	.00013	.02133	.00024	.00014	Blank
75	CCV6	107.06	1.5135	1.0503	1.9684	1.4589	2.4451	1.9829	75.307	2.4505	.94877	CCV6
76	CCB6	.03054	.00130	.00020	.00130	.00041*	.00585	.00033	.06791	.00065	.00009	CCB6
77	B208-13	86.912	.00949	.09422	1.0697	.00725	.03805	.03939	255.04	.20498	.04472	B208-13
78	A236-01	83.962	1.0146	2.1922	6.5637	1.3130	.76519	2.0631	63.693	2.5738	.62658	A236-01
79	A236-01T	8.8165	.10054	.21423	.66500	.13312	.08059	.21373	6.5009	.26169	.06036	A236-01T
80	Blank	.01044	.00099	-.00038	.00022	-.00002	.00129	.00004	-.00828	.00016	.00000	Blank
81	MRLB2403	.22588	.09969	.01049	.01061	.01006	.01014	.01032	1.0040	.01053	.00914	MRLB2403
82	MRLB2404	.22828	.05092	.01021	.00646*	.00419	.09415	.00526	.52374	.01054	.00893	MRLB2404
83	CCV7	107.68	1.5141	1.0506	1.9736	1.4656	2.4405	1.9708	75.400	2.4384	.95032	CCV7
84	CCB7	.03249	.00163	-.00106	.00155	.00071*	.00566	.00029	.07869	.00080	.00018	CCB7
85	IPB044WB	.01106	.00027	-.00018	-.00020	-.00004	.00410	-.00009	-.02433	.00006	.00002	IPB044WB
86	IPB044WL	5.7545	2.5443	.53834	.50285	.51054	.50236	.52873	50.221	.51447	.47936	IPB044WL
87	IPB044WC	5.8281	2.5645	.54108	.51153	.51893	.51212	.53004	50.961	.52111	.48738	IPB044WC
88	B196-12A	6.0487	2.5119	.56493	.62350	.52996	.56344	.52980	115.37	.53710	.49389	B196-12A
89	B196-12	.02502	.00196	.00210	.09957	.00013	.05315	.00005	66.601	.00972	-.00034	B196-12
90	B196-12J	.00645	.00063	-.00101	.01978	-.00002	.01092	-.00009	13.602	.00212	-.00017	B196-12J
91	B196-12M	5.9023	2.6192	.55909	.62050	.52113	.57098	.52938	118.62	.53059	.48512	B196-12M
92	B196-12S	5.8658	2.5749	.55132	.62002	.52024	.57025	.52448	119.67	.53320	.48402	B196-12S
93	B193-13	.02551	.00116	.00253	.10213	.00016	.05421	.00004	69.193	.01001	-.00030	B193-13
94	Blank	.00369	.00125	-.00110	.00018	.00001	.00119	.00000	-.00086	.00004	.00000	Blank
95	CCV8	106.38	1.4979	1.0533	1.9790	1.4680	2.4645	2.0129	76.245	2.4940	.94935	CCV8
96	CCB8	.02490	.00148	.00002	.00110	.00029*	.00583	.00045*	.05946	.00059	.00022	CCB8
97	B173-04	.86138	-.00028	.00538	.16508	.00006	.08570	.00061	91.515	.08138	.00016	B173-04
98	B173-05	3.6104	-.00190	.00298	.20979	.00019	.07788	.00088	183.49	.35067	.00143	B173-05
99	B173-06	.49245	-.01513	.00127	.08536	.00000	.07398	.00017	78.586	1.7573	-.00013	B173-06
100	B204-05	.65107	.00074	.00396	.36906	-.00002	.10132	.00003	26.058	.00356	-.00002	B204-05
101	B204-07	.65700	-.00043	.00269	.07349	.00001	.05535	.00001	60.775	.01118	-.00024	B204-07
102	B204-09	.02403	-.00134	.00025	.08066	-.00005	.10487	-.00008	179.76	.23542	-.00045	B204-09
103	B180-01	.90831	.00043	.00103	.03321	.00000	.03151	.00030	32.122	.00373	.00017	B180-01
104	B203-01	3.1405	.00123	.00142	.04883	.00008	.12527	.00006	26.528	.00941	.00125	B203-01
105	B201-01	.01812	.00060	-.00186	.03314	-.00006	.02458	.00000	14.704	.00410	-.00042	B201-01
106	Blank	.00374	-.00026	-.00079	.00012	-.00002	.00018	-.00005	.00077	-.00002	-.00008	Blank
107	CCV9	109.76	1.5284	1.0691	2.0091	1.4960	2.4906	2.0273	77.120	2.5094	.95928	CCV9
108	CCB9	.03024	.00116	-.00010	.00261	.00043*	.00535	.00033	.25739	.00074	.00019	CCB9
109	B201-01M	5.8750	2.6409	.56228	.54931	.52519	.54555	.54975	66.143	.53684	.48852	B201-01M
110	B201-01S	5.8880	2.6203	.55801	.55160	.52728	.54775	.54012	66.571	.53402	.48588	B201-01S
111	B525-01	1.1921	.00453	.00303	.07232	.00018	.09107	.00236	14.929	.00803	.00127	B525-01

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
112	B526-01A	6.6457	2.4971	.56091	.55590	.53356	.50858	.55021	60.617	.56546	.49368	B526-01A
113	B526-01T	.73295	.00565	.00106	.03579	.00010	.00465	.00023	9.2138	.02687	.00112	B526-01T
114	B526-01J	.14488	.00162	.00148	.00705	.00002	.00137	.00004	1.7991	.00534	.00010	B526-01J
115	B516-03	.72401	.58972	-.00306	.39695	.00007	.00222	.27466	.66467	.22584	.00288	B516-03
116	B516-04	.01492	.00262	-.00215	.00091	-.00004	.00317	-.00010	9.2127	.00055	-.00031	B516-04
117	Blank	.00932	.00037	.00008	.00090	.00002	.00026	.00014	.05150	.00037	.00008	Blank
118	CCV10	109.65	1.5325	1.0829	2.0118	1.5046	2.5017	2.0688	78.171	2.5358	.95595	CCV10
119	CCB10	.03278	.00107	-.00018	.00319	.00048*	.00560	.00050*	.25300	.00087	.00026	CCB10
120	IPB045SB	.03773	.00191	-.00154	.00197	.00064	.00251	-.00014	.05059	.00105	-.00013	IPB045SB
121	IPB045SL	5.3836	2.5023	.53499	.51737	.52668	.47980	.54860	53.773	.54907	.50180	IPB045SL
122	IPB045SC	5.3775	2.4760	.52818	.51825	.53032	.48637	.54622	54.156	.55362	.50472	IPB045SC
123	B225-15A	63.012	2.3593	.59836	1.7649	.53455	.49008	.74003	77.406	.67853	.57056	B225-15A
124	B225-15	58.195	.01849	.06944	1.3084	.00647	.02872	.23261	26.499	.14714	.06942	B225-15
125	B225-15J	12.081	.00382	.01354	.26171	.00133	.00654	.04751	5.4123	.02992	.01339	B225-15J
126	B225-15M	81.339	2.2827	.61029	1.8028	.53440	.48573	.55155	74.751	.71284	.58373	B225-15M
127	B225-15S	78.629	2.2520	.59641	1.7809	.52953	.48166	.55207	74.122	.67951	.58179	B225-15S
128	B225-01	73.604	.01497	.09279	.94598	.00629	.04727	.13770	283.59	.20355	.05149	B225-01
129	Blank	.08071	.00079	-.00009	.00212	.00013	.00083	.00014	.36691	.00056	.00013	Blank
130	CCV11	110.17*	1.5356	1.0835	1.9951	1.5047	2.5063	2.0681	78.264	2.5484	.95194	CCV11
131	CCB11	.02010	.00122	-.00051	.00223	.00032*	.00520	.00029	.24303	.00045	.00005	CCB11
132	B225-02	67.652	.01114	.07726	.84615	.00565	.03895	.06108	101.93	.18342	.04507	B225-02
133	B225-03	85.437	.01188	.13242	1.5858	.00826	.06021	.01199	38.721	.40502	.14916	B225-03
134	B225-04	89.628	.01243	.11969	1.1920	.00781	.05580	.00990	32.846	.45090	.09304	B225-04
135	B225-05	70.755	.00939	.07517	1.1673	.00587	.03428	.04019	59.864	.16289	.06646	B225-05
136	B225-06	96.061	.01545	.14030	1.4433	.00943	.06950	.01985	37.034	.52124	.19312	B225-06
137	B225-07	30.516	.01291	.06763	.46627	.00453	.03478	.19206	472.52	.10039	.03021	B225-07
138	B225-08	46.400	.00819	.06165	.93020	.00478	.02871	.05583	136.95	.14959	.02950	B225-08
139	B225-09	53.695	.00903	.07592	1.0302	.00577	.03113	.05923	137.82	.24655	.03110	B225-09
140	B225-10	9.7285	.01676	.05635	.25924	.00240	.03057	.32403	657.12	.06979	.02072	B225-10
141	Blank	.02996	.00019	-.00125	.00123	.00002	.00003	.00003	1.0241	.00031	-.00002	Blank
142	CCV12	108.59	1.5225	1.0891	2.0079	1.5097	2.5245	2.1152	79.140	2.6061	.95292	CCV12
143	CCB12	.04096	.00062	.00071	.00269	.00059*	.00536	.00060*	.29816	.00102	.00028	CCB12
144	B225-11	29.427	.02022	.10168	.44026	.00650	.03820	.47161	670.28	.11138	.02968	B225-11
145	B225-12	56.662	.01737	.07445	1.1461	.00641	.03163	.33251	333.20	.12121	.06403	B225-12
146	B225-13	37.976	.01848	.07616	1.2076	.00516	.02351	.38050	170.50	.11839	.07793	B225-13
147	B225-14	41.350	.02372	.13017	.88924	.00461	.05886	.10198	64.135	.12664	.05828	B225-14
148	Blank	.03110	-.00014	.00005	.00088	.00001	.00015	.00008	.06087	.00015	.00007	Blank
149	CCV13	109.55	1.5351	1.0967	2.0131	1.5101	2.5329	2.1157	78.702	2.5933	.95612	CCV13
150	CCB13	.02921	.00112	.00117	.00225	.00042*	.00533	.00037	.25200	.00062	.00028	CCB13

ID8B026 Section 1 of 3

ID8B026 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00153	.00001	.00003	.00012	.00000	.00004	.00000	-.00046	.00024	.00000	Blank
2	S20			.19905			.10729					S20
3	S21			1.9725			1.0542					S21
4	S22	.33632	.05704									S22
5	S23	3.2059	2.1637									S23
6	S24							.78336				S24
7	S25							7.8929				S25
8	S26								.78733	.34972		S26
9	S27								7.4776	3.4588		S27
10	S28					.10528						S28
11	S29					.42862						S29
12	S30				.03009						.00146	S30
13	S31				.14950						.00571	S31
14	ICV	2.5128	24.835	2.3942	.52860	55.375	2.3160	2.4472	2.4646	58.637	1.0158	ICV
15	ICB	.00052	.00451	.00038	.00017	.00648	.00022	.00050	.00002	.04891	.00094	ICB
16	MLB02401	.01061	.21461	.00970	.00980	.93253	.00973	.01006	.00992	.92942	.01032	MLB02401
17	MLB02402	.01112	.10730	.00300	.09793	.19208	.00510	.00982	.01008	.90119	.01059	MLB02402
18	ICSA1	.00181	186.57	.00296	.00703	188.91	.00064	-.00183	-.00043	-.06029	.00216	ICSA1
19	ICSAB1	.54904	186.28	.94875	1.1463	187.03	.45871	1.0315	.99823	78.615	1.0794	ICSAB1
20	CCV1	2.5235	24.623	2.3934	.53045	54.995	2.3093	2.5093	2.4665	58.581	1.0416	CCV1
21	CCB1	.00059	.03044	-.00036	-.00022	.02375	.00027	.00071	.00012	.05560	.00040	CCB1
22	IPB035SQ	.00128	.05024	-.00008	-.00026	.04705	.00075	.00041	.00030	.04125	.00066	IPB035SQ
23	IPB035SX	.53083	5.2972	.50815	.00052*	47.992	.50076	.55337	.47698	50.325	.51048	IPB035SX
24	IPB035SY	.52687	5.2924	.50775	.00007*	48.449	.49834	.54812	.47581	50.826	.50272	IPB035SY
25	B130-06A	.85284	341.03	.64934	.14593	57.473	2.7815	.55153	.63446	65.911	.51489	B130-06A
26	B130-06W	.31072	348.74	.14658	.14122	10.657	2.3745	.02185	.14397	15.774	.00731	B130-06W
27	B130-06J	.06255	74.540	.02983	.02758	2.1848	.48889	.00439	.02846	3.0933	.00189	B130-06J
28	B130-06G	.81200	306.13	.64617	.24178	65.940	2.8425	.54245	.59638	80.975	.50387	B130-06G
29	B130-06H	.84199	321.77	.68700	.24136	66.442	4.1751	.54855	.60289	82.499	.50347	B130-06H
30	B130-02W	.05066	188.26	.32609	.03896	5.3960	45.537*	.00438	.09143	9.1909	.00367	B130-02W
31	Blank	.00124	.12197	.00122	.00039	.02917	.00823	.00047	.00114	.01622	.00078	Blank
32	CCV2	2.5007	24.544	2.3829	.52651	55.067	2.3037	2.5027	2.4598	58.623	1.0264	CCV2
33	CCB2	.00079	.00861	.00019	.00007	.02266	.00063	.00058	.00010	.03259	-.00013	CCB2
34	B130-03W	.08391	237.07	.56403	.02462	2.3608	1.6148	.01098	.04200	2.0529	.00469	B130-03W
35	B130-04W	.34382	279.96	2.7011	.04028	3.4142	4.9290	.01619	.07204	4.3298	.00343	B130-04W
36	B130-05W	.06733	301.24	.19367	.05186	3.7782	1.2519	.00717	.07545	3.1942	.00467	B130-05W
37	B208-09T	.01603	108.67	.07373	.00534	1.0232	2.4344	.00319	.01633	1.0127	.00209	B208-09T
38	Blank	.00034	.10691	.00021	-.00013	.01048	.00224	.00009	.00052	.00056	.00085	Blank
39	CCV3	2.4879	24.500	2.3861	.52276	55.434	2.3051	2.4881	2.4541	58.249	1.0178	CCV3
40	CCB3	.00069	.00976	.00042	-.00022	.01558	.00035	.00080*	.00035	.00861	.00097	CCB3
41	IPB046SB	.00105	.01789	-.00012	-.00005	.01997	.00063	.00067	.00025	.02182	.00145	IPB046SB
42	IPB046SL	.52290	5.2496	.50565	-.00005*	47.775	.49321	.54733	.47215	49.825	.50040	IPB046SL
43	IPB046SC	.51754	5.1600	.49855	.00007*	46.853	.48341	.53955	.46465	48.873	.49516	IPB046SC
44	B526-01A	37.172*	132.94	1.2614	.00743	51.227	1.1629	.55959	2.8831	51.754	.54197	B526-01A
45	B526-01T	37.105*	131.44	.77578	.00706	3.9800	.68303	.03512	2.4678	1.1398	.00317	B526-01T
46	B526-01J	7.6644	26.617	.15125	.00115	.81573	.13708	.00652	.47301	.20544	.00072	B526-01J
47	B526-01M	45.440*	280.64	.74534	.00533	13.014	1.7789	.13465	3.1057	10.959	.09341	B526-01M
48	B526-01S	36.758*	188.51	.31358	.01198	13.679	.98902	.12980	2.1538	11.337	.09534	B526-01S
49	B248-01T	4.1176	535.55*	.04002	.00160	1.8993	2.8202	.17755	.96167	.03509	.00117	B248-01T
50	Blank	.00839	.13597	-.00040	-.00071	.00417	.00095	.00006	.00003	-.02826	.00183	Blank
51	CCV4	2.5180	24.566	2.3835	.52754	54.814	2.2946	2.5072	2.4631	58.274	1.0201	CCV4
52	CCB4	.00228*	.02121	-.00018	.00013	.01956	.00085	.00065	.00030	.02596	.00031	CCB4
53	B248-01I	2.0301	275.21	.01974	.00083	.94687	1.4300	.08672	.47830	.01752	-.00063	B248-01I
54	B508-01	.01314	3.1449	.00459	.00048	1.5183	.07001	.00070	.00463	4.5912	.01151	B508-01

55	B508-02	.02267	20.935	.02152	.00198	15.898	.36797	.00091	.00537	8.2448	.01042	B508-02
56	B508-03	.03903	24.601	.02721	.00469	26.629	.20199	.00173	.01261	14.440	.01037	B508-03
57	B508-04	.01446	.51686	.00705	.00021	1.8145	.60940	.00022	.00269	1.4989	.00892	B508-04
58	B508-05	.04446	6.8117	.05339	.00173	6.2774	.22077	.00155	.00837	9.9761	.01265	B508-05
59	B508-06	.04316	2.2214	.01623	.00060	3.0648	1.6497	.00911	.00351	4.3008	.01142	B508-06
60	B508-07	.06550	4.1909	.12905	.00164	2.2933	1.2070	.00167	.03826	16.557	.01315	B508-07
61	B508-08	5.4801	.27204	.00899	.00016	4.5763	.08254	.00018	.00295	7.8341	.01171	B508-08
62	Blank	.00279	.00014	-.00004	-.00043	.00118	.00003	-.00001	-.00014	-.04176	-.00032	Blank
63	CCV5	2.4950	24.603	2.3869	.52351	55.210	2.2980	2.5034	2.4596	58.322	1.0190	CCV5
64	CCB5	.00091	.00556	.00011	-.00016	.02172	.00064	.00088*	.00022	-.00362	.00063	CCB5
65	IPB043SB	.00060	.00675	-.00050	-.00003	.00699	.00006	.00046	.00000	-.00238	.00078	IPB043SB
66	IPB043SL	.50565	5.0512	.48141	.00065*	45.905	.47104	.52338	.45079	47.543	.48006	IPB043SL
67	IPB043SC	.49736	5.0183	.47704	.00032*	45.103	.46395	.51667	.44573	46.405	.47251	IPB043SC
68	B208-02A	.70908	124.23	1.0798	.04198	57.379	3.7454	.53007	.58885	55.462	.52043	B208-02A
69	B208-02	.17350	125.10	.60680	.04162	10.922	3.4095	.00435	.10295	6.1083	.00596	B208-02
70	B208-02J	.03418	25.627	.12059	.00747	2.2152	.69368	.00076	.01953	1.1436	.00254	B208-02J
71	B208-02M	.68716	138.56	1.0753	.06997	58.145	3.7716	.50074	.55344	55.534	.47237	B208-02M
72	B208-02S	.69890	145.51	1.1000	.07431	59.562	4.1371	.50746	.56156	56.877	.47813	B208-02S
73	B208-08	.07914	152.67	.91267	.04677	6.5813	2.6107	.00712	.07293	6.4060	.00497	B208-08
74	Blank	.00049	.08929	.00045	-.00021	.00586	.00062	.00022	-.00004	-.03010	.00130	Blank
75	CCV6	2.4959	24.792	2.3811	.52017	55.406	2.3050	2.4963	2.4566	57.796	1.0364	CCV6
76	CCB6	.00096	.00998	.00047	.00010	.02558	.00058	.00100*	.00045	.03448	.00092	CCB6
77	B208-13	.12198	178.41	.26387	.04903	12.697	2.3345	.00757	.08086	6.0876	.00380	B208-13
78	A236-01	1.2699	91.032	2.7557	1.0718	26.456	4.0385	1.4727	1.7622	39.333	1.3435	A236-01
79	A236-01T	.12641	9.5165	.28128	.10172	2.6974	.41675	.13698	.17268	3.7158	.13130	A236-01T
80	Blank	.00045	.01381	-.00006	.00005	.00137	.00007	.00018	-.00007	-.02281	.00215	Blank
81	MRLB2403	.01058	.22195	.00941	.01037	.95149	.00990	.01019	.00996	.87909	.00969	MRLB2403
82	MRLB2404	.01095	.11063	.00332	.09668	.19626	.00497	.00989	.01022	.88432	.01052	MRLB2404
83	CCV7	2.5174	24.925	2.3755	.52265	55.729	2.3054	2.5035	2.4611	57.861	1.0347	CCV7
84	CCB7	.00102	.00958	.00026	.00061	.03272	.00121	.00084*	.00018	.02384	.00030	CCB7
85	IPB044WB	.00055	.00188	-.00029	-.00011	.01065	-.00009	.00012	-.00017	-.02393	.00120	IPB044WB
86	IPB044WL	.52774	5.3546	.49896	.00029*	47.385	.48548	.50658	.45228	48.058	.52911	IPB044WL
87	IPB044WC	.53737	5.4020	.50605	.00056*	48.159	.49530	.51586	.45996	48.986	.53338	IPB044WC
88	B196-12A	.55339	5.6475	.51029	.02863	60.989	.51037	.51507	.48117	52.967	.54785	B196-12A
89	B196-12	.00296	.13992	.00043	.02779	13.141	.00707	.00334	.00005	2.1512	.00109	B196-12
90	B196-12J	.00108	.02697	.00007	.00488	2.6801	.00128	.00072	-.00014	.39425	.00117	B196-12J
91	B196-12M	.54080	5.5328	.50163	.02953	61.858	.50303	.52345	.45593	52.937	.54354	B196-12M
92	B196-12S	.53993	5.5581	.49968	.02963	62.257	.50560	.51876	.45444	53.460	.53658	B196-12S
93	B193-13	.00279	.14497	.00102	.02798	13.670	.00794	.00344	-.00008	2.2608	.00076	B193-13
94	Blank	.00016	-.00078	-.00034	.00031	.00900	-.00013	.00012	-.00018	-.01362	.00075	Blank
95	CCV8	2.5106	24.888	2.3765	.52326	56.138	2.3414	2.4708	2.4550	58.772	1.0365	CCV8
96	CCB8	.00070	.00436	.00036	-.00006	.01589	.00036	.00106*	.00036	.00514	.00085	CCB8
97	B173-04	.01566	.89982	.00453	.03240	17.792	.03580	.00180	.00346	2.9577	.00111	B173-04
98	B173-05	.02429	3.4789	.01315	.04559	37.418	.20280	.00255	.01173	4.8186	.00276	B173-05
99	B173-06	.00317	.32878	.00026	.02823	15.096	.01812	.00263	.00318	2.3317	.00275	B173-06
100	B204-05	.00308	.81250	.00098	.01762	5.0508	.21795	.08273	.00216	2.0982	-.00034	B204-05
101	B204-07	.00145	.36187	.00081	.03032	11.860	.01302	.01031	.00013	1.8892	.00009	B204-07
102	B204-09	.00211	.06178	.00061	.04372	36.292	.00023	.00129	-.00017	2.9892	.00461	B204-09
103	B180-01	.02635	.96645	.00185	.00551	3.4278	.01731	.00719	.00328	1.6563	.00450	B180-01
104	B203-01	.02374	2.8916	.00417	.00446	2.5740	.06051	.00287	.00468	5.0218	.00181	B203-01
105	B201-01	.00103	.00046	.00072	.00041	8.4253	.00009	.00001	.00075	1.5026	.00305	B201-01
106	Blank	.00022	.00061	.00014	.00048	.00437	-.00020	.00003	-.00002	-.03308	.00027	Blank
107	CCV9	2.5649	25.475	2.3991	.53028	57.139	2.3603	2.5174	2.4851	59.038	1.0500	CCV9
108	CCB9	.00087	.00640	.00060	.00002	.02425	.00080	.00102*	.00055	.01440	.00041	CCB9
109	B201-01M	.54157	5.4791	.50361	.00127	57.546	.50347	.51589	.45970	51.545	.55150	B201-01M
110	B201-01S	.53994	5.5015	.50042	.00132	57.890	.50412	.51862	.45851	52.460	.54460	B201-01S
111	B525-01	.08162	1.7561	.01036	.00511	4.1214	.04982	.01471	.01591	27.843	.00071	B525-01

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	B526-01A	4.4461	18.789	.58209	.00116	49.459	.58034	.50640	.71512	49.781	.54216	B526-01A
113	B526-01T	4.0381	13.902	.07524	.00030	.43661	.07138	.00341	.23626	.14714	.00108	B526-01T
114	B526-01J	.79600	2.6970	.01471	.00000	.09030	.01403	.00072	.04533	.01238	.00115	B526-01J
115	B516-03	.19092	1.7704	.67320	.46514	.43145	.08190	.43112	.12271	.18779	.00142	B516-03
116	B516-04	.00076	.02695	-.00022	-.00027	.02020	.00043	.00122	.00008	-.00158	.00241	B516-04
117	Blank	.00051	.00195	.00060	.00031	.00357	.00000	.00028	-.00001	-.03512	.00098	Blank
118	CCV10	2.5503	25.707	2.3914	.52705	58.105	2.3877	2.5025	2.4762	59.293	1.0554	CCV10
119	CCB10	.00090	.00745	.00055	.00016	.02329	.00083	.00112*	.00075	.00926	.00079	CCB10
120	IPB045SB	.00088	.05180	-.00021	-.00035	.03017	.00180	.00033	-.00003	.02592	.00219	IPB045SB
121	IPB045SL	.52877	5.5064	.50350	.00046*	50.718	.52055	.53941	.46959	50.595	.51728	IPB045SL
122	IPB045SC	.52957	5.5265	.50644	-.00002*	51.080	.52085	.54093	.47305	51.133	.51253	IPB045SC
123	B225-15A	.63656	137.50	.65788	.02375	54.510	3.4765	.52318	.53800	53.547	.51087	B225-15A
124	B225-15	.10386	138.58	.17011	.02325	5.6642	3.1500	.00725	.05340	3.9869	.00403	B225-15
125	B225-15J	.02070	28.643	.03435	.00422	1.1601	.64275	.00123	.01009	.76875	.00113	B225-15J
126	B225-15M	.60212	189.48	.68390	.03345	55.934	4.0280	.53885	.55165	55.267	.50448	B225-15M
127	B225-15S	.59043	152.20	.66896	.03133	55.756	4.1345	.53291	.51475	54.325	.50812	B225-15S
128	B225-01	.44447	179.82	.35888	.03313	54.821	5.4740	.01047	.10981	3.9924	.00667	B225-01
129	Blank	.00070	.18933	.00009	-.00012	.07816	.00748	.00016	.00017	-.01625	.00039	Blank
130	CCV11	2.5409	25.957	2.3875	.52388	58.358	2.3819	2.5036	2.4696	58.981	1.0549	CCV11
131	CCB11	.00061	.00884	.00086	.00008	.01845	.00071	.00084*	.00042	.00842	.00031	CCB11
132	B225-02	.17716	165.99	.23558	.02600	20.576	4.1638	.00949	.06359	2.9394	.00700	B225-02
133	B225-03	.12139	280.38	.35648	.02647	6.5605	10.821	.01429	.06801	3.0452	.00756	B225-03
134	B225-04	.08277	276.92	.32590	.02912	6.1493	6.8086	.01208	.08277	3.1648	.00349	B225-04
135	B225-05	.13774	152.57	.28422	.02733	13.575	6.3426	.00721	.06419	3.3374	.00535	B225-05
136	B225-06	.12063	328.46	.35073	.03110	10.014	11.242	.01586	.09018	3.6143	.00723	B225-06
137	B225-07	.68131	82.283	.32626	.02407	88.691	4.0741	.00316	.09841	3.0518	.00772	B225-07
138	B225-08	.29915	118.23	.12370	.02151	26.870	3.1638	.00560	.05669	2.6993	.00505	B225-08
139	B225-09	.29024	151.76	.13142	.02256	26.896	2.9746	.00652	.06430	2.7276	.00482	B225-09
140	B225-10	.74442	60.339	.40046	.01629	139.91	5.4786	.00352	.11001	3.0127	.00756	B225-10
141	Blank	.00061	.10876	.00032	-.00003	.19286	.00851	.00004	.00002	-.05289	.00010	Blank
142	CCV12	2.5459	25.885	2.3870	.52496	58.862	2.4267	2.4711	2.4632	59.711	1.0589	CCV12
143	CCB12	.00091	.01350	.00070	.00017	.02352	.00116	.00119*	.00070	.01801	.00116	CCB12
144	B225-11	1.7452	112.33	.84147	.02591	153.61	4.1905	.00892	.11012	6.9923	.01428	B225-11
145	B225-12	.29496	113.39	.86586	.03089	79.930	4.9893	.00626	.09351	3.7449	.00634	B225-12
146	B225-13	.14033	133.79	.58637	.01840	41.435	3.4010	.00683	.05789	2.4845	.00481	B225-13
147	B225-14	.65479	272.00	.34538	.01872	10.367	3.9952	.01475	.14377	3.2933	.00572	B225-14
148	Blank	.00056	.11972	.00015	-.00025	.00725	.00149	.00001	-.00009	-.04813	.00025	Blank
149	CCV13	2.5729	25.702	2.3869	.52620	58.566	2.4212	2.4805	2.4709	59.723	1.0713	CCV13
150	CCB13	.00070	.00905	.00054	.00041	.03091	.00096	.00096*	.00029	.00407	.00085	CCB13

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ID8B026 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00342	-.00009	-.00001	.00008	.00001	-.00011	.00189	Blank
2	S20									S20
3	S21									S21
4	S22							.13396		S22
5	S23							1.3219		S23
6	S24		1.1044							S24
7	S25		6.3559							S25
8	S26									S26
9	S27									S27
10	S28				.00619					S28
11	S29				.05738					S29
12	S30	.04125		.13131		.02639	.01660		.57222	S30
13	S31	.20552		.65425		.12870	.08240		5.5177	S31
14	ICV	.49867	62.711	.48128	2.2877	.49185	.49074	1.4464	2.6624	ICV
15	ICB	.00013	-.03587	.00010	.00003	.00016	.00002	.00009	-.00124	ICB
16	MLB02401	.00988	.95502	.00995	.01060	.00020	.00980	.00985	.01271*	MLB02401
17	MLB02402	.01003	.44671	.01017	.01062	.00985	.01007	.01004	.00890	MLB02402
18	ICSA1	.00041	-.02702	-.00046	.00107	.00313	.00254	-.00115	-.00011	ICSA1
19	ICSAB1	1.1090	82.719	.49399	.84562	.99851	.97523	.48917	1.0823	ICSAB1
20	CCV1	.50293	62.202	.48510	2.3163	.51334	.48745	1.4491	2.6877	CCV1
21	CCB1	.00022	-.01620	.00013	-.00021	.00018	-.00017	.00014	-.00127	CCB1
22	IPB035SQ	-.00002	.05131	.00132	-.00082	.03377	.00038	.00039	.00606	IPB035SQ
23	IPB035SX	.49793	53.774	.49265	.48085	.55405	.51779	.52136	.57959	IPB035SX
24	IPB035SY	.49483	54.179	.48895	.47457	.54945	.51521	.51897	.57936	IPB035SY
25	B130-06A	.49836	53.108	.51723	.45973	.53879	1.6191	.91415	.86691	B130-06A
26	B130-06W	.00056	.12836	.04383	.00427	.04369	1.1521	.41224	.28657	B130-06W
27	B130-06J	.00017	-.03894	.00886	.00171	.00864	.23229	.08220	.05503	B130-06J
28	B130-06G	.50275	52.922	.57115	.45360	.55119	2.0252	.94317	.90017	B130-06G
29	B130-06H	.50243	53.258	.56940	.45197	.55690	2.0546	.94132	.87755	B130-06H
30	B130-02W	-.00013	.13756	.03520	-.01384*	.04083	.60122	.18796	.17029	B130-02W
31	Blank	.00014	-.04514	.00068	.00028	.00068	.00048	.00034	.04803	Blank
32	CCV2	.49777	62.039	.48276	2.2875	.51142	.48696	1.4377	2.6755	CCV2
33	CCB2	-.00012	-.04806	.00017	-.00002	.00020	.00019	.00010	.00243	CCB2
34	B130-03W	-.00013	.06381	.01671	.00195	.04022	.82280	.32227	.14111	B130-03W
35	B130-04W	-.00043	.07045	.02707	.00146	.04291	.89420	.38827	.24729	B130-04W
36	B130-05W	.00001	.03510	.02771	.00259	.04029	1.0440	.35937	.22012	B130-05W
37	B208-09T	.00006	-.05766	.01247	.00049	.01119	.20691	.14297	.39965	B208-09T
38	Blank	-.00022	-.08451	.00007	-.00114	.03806	.00008	.00008	.00095	Blank
39	CCV3	.49743	61.683	.47974	2.2653	.51214	.48678	1.4359	2.6821	CCV3
40	CCB3	.00004	-.05733	.00017	.00062	.00043	.00000	.00018	.00231	CCB3
41	IPB046SB	-.00018	-.05720	.00027	-.00108	.03980	.00000	.00046	.00151	IPB046SB
42	IPB046SL	.49411	53.130	.48385	.47272	.55415	.51218	.51692	.57609	IPB046SL
43	IPB046SC	.48700	52.205	.47635	.46441	.54773	.50462	.50798	.56423	IPB046SC
44	B526-01A	.54076	55.508	.89920	.48309	1.7188	.87496	.54272	2.4934	B526-01A
45	B526-01T	.03250	1.8885	.43753	.00131	1.2161	.37679	.02354	1.9421	B526-01T
46	B526-01J	.00637	.28461	.08621	.00043	.23527	.07324	.00460	.36930	B526-01J
47	B526-01M	.13142	12.175	.33251	.09961	2.5815	.44015	.13682	1.8743	B526-01M
48	B526-01S	.22306	11.809	.40605	.09762	.71829	.56134	.13368	1.3444	B526-01S
49	B248-01T	.00369	.28856	.08974	.00639	.13525	.09369	.02078	.04820	B248-01T
50	Blank	-.00009	-.09857	.00010	-.00067	.00032	.00024	.00007	-.00092	Blank
51	CCV4	.49948	61.831	.48137	2.2787	.51423	.48593	1.4426	2.6792	CCV4
52	CCB4	.00003	-.05860	.00027	.00004	.00008	.00040	.00004	.00168	CCB4
53	B248-01I	.00170	.09424	.04527	.00371	.06673	.04539	.01027	.02213	B248-01I
54	B508-01	-.00015	1.2676	.15018	-.00778*	.04378	.00813	.00087	.49405	B508-01

55	B508-02	-.00018	9.5426	.09437	-.00802*	.04735	.44143	.00322	2.5072	B508-02
56	B508-03	-.00006	5.7100	.17340	-.00820*	.04828	.51217	.00393	1.5128	B508-03
57	B508-04	.00057	.18158	.03190	-.00678*	.04371	.01242	.00069	.17354	B508-04
58	B508-05	-.00009	4.3480	.07570	-.00877*	.04885	.08308	.00353	2.2096	B508-05
59	B508-06	-.00017	34.891	.04568	-.00955*	.04584	.05213	.00284	1.4746	B508-06
60	B508-07	-.00026	.62870	.09554	-.00914*	.04841	.02685	.00209	14.125	B508-07
61	B508-08	-.00028	.13506	.10046	-.00878*	.04546	.00537	.00011	.15141	B508-08
62	Blank	-.00010	-.10038	.00009	-.00078	.00022	.00002	-.00020	.00116	Blank
63	CCV5	.49819	61.678	.48032	2.2758	.51230	.48677	1.4424	2.6812	CCV5
64	CCB5	-.00002	-.06610	.00016	-.00021	.00033	-.00004	.00014	.00192	CCB5
65	IPB043SB	-.00008	-.08293	.00008	-.00086	.03885	.00002	.00005	-.00057	IPB043SB
66	IPB043SL	.47519	50.768	.45603	.45518	.53058	.49012	.49627	.54751	IPB043SL
67	IPB043SC	.46845	49.654	.44651	.45025	.52470	.48256	.48781	.54237	IPB043SC
68	B208-02A	.49102	52.812	.56877	.45752	.54095	1.4730	.74488	17.911	B208-02A
69	B208-02	-.00048	.50722	.10663	-.00141	.04903	1.0116	.24496	17.940	B208-02
70	B208-02J	-.00020	.01863	.02109	.00000	.00974	.20011	.04848	3.5078	B208-02J
71	B208-02M	.47993	50.984	.57314	.40561	.52945	1.5081	.75329	18.655	B208-02M
72	B208-02S	.48629	51.633	.58391	.41353	.53344	1.6105	.77351	19.572	B208-02S
73	B208-08	-.00044	.35931	.09353	-.00023	.06551	.92104	.26869	1.1274	B208-08
74	Blank	.00008	-.09923	.00002	-.00049	.00062	.00035	.00018	.00495	Blank
75	CCV6	.50012	61.237	.47897	2.3293	.51253	.48854	1.4527	2.7096	CCV6
76	CCB6	.00017	-.05780	.00023	.00015	.00015	.00021	.00023	.00251	CCB6
77	B208-13	-.00056	.44758	.12995	-.00035	.04489	.84050	.31008	5.0270	B208-13
78	A236-01	.37492	69.235	2.1661	1.7859	.94672	.60561	.92490	2.8795	A236-01
79	A236-01T	.03727	6.6866	.21726	.20397	.09333	.06050	.09233	.27287	A236-01T
80	Blank	-.00004	-.09285	.00003	-.00052	.00018	-.00023	.00004	-.00084	Blank
81	MRLB2403	.00996	.91859	.01004	.01072	.00013	.01017	.01011	.01850	MRLB2403
82	MRLB2404	.00992	.40456	.01018	.01065	.00977	.01046	.01013	.00956	MRLB2404
83	CCV7	.49933	61.416	.47607	2.3233	.51214	.48957	1.4529	2.6902	CCV7
84	CCB7	.00009	-.05498	.00025	.00046	.00041	.00008	.00028	.00159	CCB7
85	IPB044WB	-.00013	-.09531	.00007	-.00080	.00029	-.00010	-.00016	.00046	IPB044WB
86	IPB044WL	.50986	51.580	.46792	.50753	.49825	.50424	.50918	.55251	IPB044WL
87	IPB044WC	.51709	52.522	.47885	.50849	.50538	.51448	.51672	.56011	IPB044WC
88	B196-12A	.51664	94.355	1.2209	.50031	.49850	.50641	.53473	.60028	B196-12A
89	B196-12	-.00016	41.153	.76925	-.00020	.00011	.00144	.00509	.02917	B196-12
90	B196-12J	-.00008	8.0963	.15573	-.00002	.00039	.00015	.00107	.00740	B196-12J
91	B196-12M	.52613	96.130	1.2704	.49261	.51243	.51912	.52436	.59364	B196-12M
92	B196-12S	.52690	96.957	1.2782	.48824	.50689	.51360	.52641	.59338	B196-12S
93	B193-13	-.00013	42.630	.79485	-.00078	.00003	.00129	.00532	.03484	B193-13
94	Blank	-.00014	-.06722	.00021	-.00037	.00003	.00023	-.00008	-.00136	Blank
95	CCV8	.50594	62.009	.48541	2.3384	.50479	.48976	1.4778	2.7116	CCV8
96	CCB8	.00001	-.05195	.00018	.00055	.00055	.00033	.00020	.00221	CCB8
97	B173-04	-.00006	57.062	1.0331	-.00131	.00100	.01988	.00479	.08833	B173-04
98	B173-05	.00001	72.207	2.0800	-.00029	.00145	.06853	.00796	.12996	B173-05
99	B173-06	-.00008	49.477	.87542	.00005	.00037	.01168	.00522	.01205	B173-06
100	B204-05	-.00021	44.661	.30065	-.00083	.00210	.01397	.00041	.01535	B204-05
101	B204-07	-.00025	43.053	.69299	-.00042	.00032	.01459	.00609	.00475	B204-07
102	B204-09	-.00027	74.579	2.0356	-.00051	.00028	.00182	.00393	.03397	B204-09
103	B180-01	-.00013	6.1856	.16993	-.00035	.00143	.04795	.00606	.06215	B180-01
104	B203-01	-.00016	7.8535	.09613	-.00070	.00081	.17874	.02437	.05160	B203-01
105	B201-01	-.00010	49.108	.20595	-.00034	-.00024	.00052	.00074	.00266	B201-01
106	Blank	-.00008	-.05719	.00017	-.00045	.00008	.00011	-.00018	-.00126	Blank
107	CCV9	.51126	62.406	.48360	2.3753	.51414	.49783	1.4950	2.7478	CCV9
108	CCB9	.00006	-.04519	.00026	.00090	.00028	.00008	.00034	.01002	CCB9
109	B201-01M	.53111	102.20	.68659	.50993	.50780	.51877	.52952	.57162	B201-01M
110	B201-01S	.53004	103.63	.69012	.50572	.50931	.52067	.52718	.56995	B201-01S
111	B525-01	-.00002	119.26	.06339	-.00065	.00113	.10524	.00747	1.7643	B525-01

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
112	B526-01A	.51465	52.742	.50572	.52404	.61172	.54499	.53990	.77047	B526-01A
113	B526-01T	.00334	.15162	.04394	.00018	.11697	.03762	.00244	.18626	B526-01T
114	B526-01J	.00065	-.03049	.00861	-.00086	.02259	.00748	.00048	.03479	B526-01J
115	B516-03	.05345	.49823	.01101	-.00104	.04297	.01611	.00142	.35529	B516-03
116	B516-04	-.00028	-.06504	.00499	-.00175	.03727	.00061	.00016	.66759	B516-04
117	Blank	-.00008	-.09029	.00001	.00006	.00028	.00023	-.00008	.00211	Blank
118	CCV10	.51351	62.522	.48444	2.4106	.51071	.50113	1.5015	2.7605*	CCV10
119	CCB10	.00010	-.04631	.00031	.00058	.00063	.00047	.00039	.00993	CCB10
120	IPB045SB	-.00008	-.04104	.00028	-.00145	.03984	.00123	.00038	.00202	IPB045SB
121	IPB045SL	.50669	53.692	.48398	.49949	.54938	.52342	.54330	.59447	IPB045SL
122	IPB045SC	.51080	54.117	.48727	.49489	.54891	.52512	.54661	.59489	IPB045SC
123	B225-15A	.49113	52.970	.54966	.47062	.53271	1.0678	.88836	48.326*	B225-15A
124	B225-15	-.00062	.60449	.08498	-.00062	.04617	.58681	.37212	49.441*	B225-15
125	B225-15J	.00003	.04677	.01692	-.00019	.00901	.11643	.07458	10.362	B225-15J
126	B225-15M	.51749	54.890	.57234	.47802	.55317	1.1052	.94847	4.1383	B225-15M
127	B225-15S	.51204	54.116	.55676	.47798	.55004	1.0750	.86715	4.6757	B225-15S
128	B225-01	-.00018	.51169	.17575	-.00074	.07155	.74231	.31657	30.798	B225-01
129	Blank	.00026	-.07344	.00030	-.00021	.00029	.00082	.00061	.00499	Blank
130	CCV11	.51274	62.198	.47958	2.4165	.51495	.49907	1.5044	2.7699*	CCV11
131	CCB11	-.00001	-.05844	.00016	.00021	.00036	.00076	.00021	.00988	CCB11
132	B225-02	-.00031	.31280	.09296	.00029	.11380	.79667	.30145	13.356	B225-02
133	B225-03	-.00025	.32094	.06712	-.00009	.04759	1.1727	.54893	2.8126	B225-03
134	B225-04	-.00036	.29386	.06951	.00098	.04672	1.2180	.48235	2.3280	B225-04
135	B225-05	-.00052	.39823	.09422	-.00124	.04595	.99979	.29987	8.2114	B225-05
136	B225-06	-.00056	.30267	.08815	-.00034	.04822	1.3363	.61388	4.3443	B225-06
137	B225-07	-.00021	.47211	.23012	-.00205	.04902	.37849	.12082	43.156*	B225-07
138	B225-08	-.00060	.37478	.09809	-.00090	.04499	.63872	.22022	10.415	B225-08
139	B225-09	-.00049	.40542	.10166	-.00098	.04553	.63283	.28917	11.210	B225-09
140	B225-10	-.00020	.39514	.30945	-.00481	.04524	.11511	.06593	71.945*	B225-10
141	Blank	-.00007	-.10317	.00044	.00020	.00007	.00060	.00017	.01720	Blank
142	CCV12	.52066	62.717	.49007	2.4384	.50697	.49990	1.5348	2.7857*	CCV12
143	CCB12	.00020	-.05667	.00033	.00071	.00036	.00021	.00037	.01199	CCB12
144	B225-11	.00040	.57080	.31937	-.00154	.04716	.27187	.14172	66.109*	B225-11
145	B225-12	-.00047	1.1274	.19299	-.00257	.04544	.40875	.24368	56.279*	B225-12
146	B225-13	-.00061	1.2339	.11201	-.00195	.04396	.44290	.30183	63.394*	B225-13
147	B225-14	.00009	.39012	.08634	.00079	.96365	.42020	.21456	18.828	B225-14
148	Blank	-.00010	-.10365	.00007	-.00050	.00002	.00028	-.00004	.01965	Blank
149	CCV13	.52225	62.739	.49122	2.4460	.50703	.50026	1.5371	2.7636*	CCV13
150	CCB13	.00006	-.06293	.00026	.00033	.00017	.00036	.00022	.01083	CCB13

ID8B026 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 2/25/11 10:17

End Date: 2/25/11 14:30

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

B208105A sample introduction error

B537101, B537102 Al7LDR

B537031, 04T, 05T overdilutedⓐ10X

B537101T ⓐ 10X Al7LDR

B537105 Ca7LDR

(Al&Ca interfers w/ Pb)

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8B027

Analytical Sequence: S-11B6010/V25)

Method File: 11B6010/V25)

Database: Emax13

TH 2/25/11

	STANDARDS ID		STANDARDS ID
S0	~~2~~SM1B144005	S30	SM1B140203
S1	NA	S31	0204
S2		ICV	2701
S3		CCV	3505
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B144109
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B143102		
S21	0101		
S22	0102		
S23	0103		
S24	0104		
S25	0105		
S26	2801		
S27	2802		
S28	0201		
S29	0202		

Analyzed By: TH

Date: 2/25/11

SEQUENCE FILE : ID8B027

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8B027001	Blank	10:17	02/25/11	1.000
ID8B027002	S20	10:20	02/25/11	1.000
ID8B027003	S21	10:23	02/25/11	1.000
ID8B027004	S22	10:26	02/25/11	1.000
ID8B027005	S23	10:29	02/25/11	1.000
ID8B027006	S24	10:32	02/25/11	1.000
ID8B027007	S25	10:35	02/25/11	1.000
ID8B027008	S26	10:38	02/25/11	1.000
ID8B027009	S27	10:40	02/25/11	1.000
ID8B027010	S28	10:44	02/25/11	1.000
ID8B027011	S29	10:46	02/25/11	1.000
ID8B027012	S30	10:49	02/25/11	1.000
ID8B027013	S31	10:52	02/25/11	1.000
ID8B027014	ICV	10:55	02/25/11	1.000
ID8B027015	ICB	10:57	02/25/11	1.000
ID8B027016	MRLB2501	11:00	02/25/11	1.000
ID8B027017	MRLB2502	11:03	02/25/11	1.000
ID8B027018	ICSA1	11:06	02/25/11	1.000
ID8B027019	ICSAB1	11:09	02/25/11	1.000
ID8B027020	TEST	11:12	02/25/11	1.000
ID8B027021	Blank	11:14	02/25/11	1.000
ID8B027022	Blank	11:18	02/25/11	1.000
ID8B027023	CCV1	11:21	02/25/11	1.000
ID8B027024	CCB1	11:23	02/25/11	1.000
ID8B027025	IPB045SQ	11:26	02/25/11	1.000
ID8B027026	IPB045SX	11:29	02/25/11	1.000
ID8B027027	IPB045SY	11:32	02/25/11	1.000
ID8B027028	B225-02A	11:34	02/25/11	1.000
ID8B027029	B225-02W	11:37	02/25/11	1.000
ID8B027030	B225-02J	11:39	02/25/11	5.000
ID8B027031	B225-08W	11:42	02/25/11	1.000
ID8B027032	B225-09W	11:45	02/25/11	1.000
ID8B027033	B225-14W	11:47	02/25/11	1.000
ID8B027034	Blank	11:50	02/25/11	1.000
ID8B027035	CCV2	11:53	02/25/11	1.000
ID8B027036	CCB2	11:55	02/25/11	1.000
ID8B027037	IPB050SB	11:58	02/25/11	1.000
ID8B027038	IPB050SL	12:01	02/25/11	1.000
ID8B027039	IPB050SC	12:04	02/25/11	1.000
ID8B027040	B208-05A	12:06	02/25/11	1.000
ID8B027041	B208-05R	12:09	02/25/11	1.000
ID8B027042	B208-05J	12:12	02/25/11	5.000
ID8B027043	B539-19	12:14	02/25/11	1.000
ID8B027044	B537-01	12:17	02/25/11	1.000
ID8B027045	B537-02	12:20	02/25/11	1.000
ID8B027046	Blank	12:22	02/25/11	1.000
ID8B027047	CCV3	12:36	02/25/11	1.000
ID8B027048	CCB3	12:39	02/25/11	1.000
ID8B027049	B537-03T	12:42	02/25/11	10.00
ID8B027050	B537-04T	12:45	02/25/11	10.00
ID8B027051	B537-05T	12:47	02/25/11	10.00
ID8B027052	B537-06T	12:50	02/25/11	10.00
ID8B027053	B537-07T	12:53	02/25/11	10.00
ID8B027054	B537-08T	12:56	02/25/11	10.00

ID8B027055	B537-09T	12:59	02/25/11	10.00
ID8B027056	Blank	13:02	02/25/11	1.000
ID8B027057	CCV4	13:05	02/25/11	1.000
ID8B027058	CCB4	13:08	02/25/11	1.000
ID8B027059	B208-05A	13:10	02/25/11	1.000
ID8B027060	B537-03	13:13	02/25/11	1.000
ID8B027061	B537-04	13:16	02/25/11	1.000
ID8B027062	B537-05	13:19	02/25/11	1.000
ID8B027063	B537-01T	13:21	02/25/11	10.00
ID8B027064	B537-02T	13:24	02/25/11	10.00
ID8B027065	Blank	13:27	02/25/11	1.000
ID8B027066	Blank	13:30	02/25/11	1.000
ID8B027067	CCV5	13:33	02/25/11	1.000
ID8B027068	CCB5	13:36	02/25/11	1.000
ID8B027069	B191-21	13:38	02/25/11	1.000
ID8B027070	B191-22	13:41	02/25/11	1.000
ID8B027071	B191-23	13:44	02/25/11	1.000
ID8B027072	B191-24	13:46	02/25/11	1.000
ID8B027073	B191-24M	13:49	02/25/11	1.000
ID8B027074	B191-24S	13:52	02/25/11	1.000
ID8B027075	Blank	13:57	02/25/11	1.000
ID8B027076	CCV6	13:59	02/25/11	1.000
ID8B027077	CCB6	14:02	02/25/11	1.000
ID8B027078	B537-01I	14:05	02/25/11	20.00
ID8B027079	B537-05I	14:08	02/25/11	5.000
ID8B027080	B225-02	14:11	02/25/11	1.000
ID8B027081	B225-08	14:14	02/25/11	1.000
ID8B027082	B225-09	14:16	02/25/11	1.000
ID8B027083	B225-14	14:19	02/25/11	1.000
ID8B027084	B173-06W	14:22	02/25/11	1.000
ID8B027085	B204-09W	14:24	02/25/11	1.000
ID8B027086	CCV7	14:27	02/25/11	1.000
ID8B027087	CCB7	14:30	02/25/11	1.000

VERSON : 11A UNIT : %

SUMMARY of ICV and CCV : ID8B027

DATE : 02/25/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	108	97	105	102	104	100	100	103	99	94	105	103	96	108	96	95	99	99	100	103	102	107	98	94	96	99	100	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	102	----	----	----	----	----	----	96	----	----	----	96	----	----	96	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	101	104	108	109	103	106	96	94	96	96	113	95	95	116	95	93	104	100	107	108	112	113	101	85	97	98	100	106
TEST	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	107	100	105	101	102	100	97	101	98	98	105	100	96	109	93	93	102	99	99	105	103	106	100	93	99	98	100	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	108	99	106	102	102	99	98	100	98	98	107	100	96	109	93	94	103	100	99	106	103	106	101	94	98	98	102	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB050SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB050SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB050SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B539-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	108	100	106	101	102	100	98	100	98	97	107	99	96	107	93	93	101	99	98	106	103	105	99	94	97	98	101	104
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B537-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	108	99	104	102	102	100	97	100	98	97	107	99	96	108	92	93	101	99	100	105	104	106	101	93	97	98	101	104
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	109	100	105	101	101	99	98	99	98	97	107	99	96	107	92	93	101	99	97	106	103	104	100	94	97	98	101	104
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	109	100	105	101	101	99	98	98	97	98	107	98	96	107	91	92	101	99	97	106	103	104	99	94	97	97	100	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	108	99	104	101	101	99	97	98	97	98	107	98	96	107	91	92	101	99	97	106	103	105	100	93	97	97	100	103
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B027 (WATER) DATE : 02/25/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	40.6	1.35	-.590	.830	.330	7.85	.340	15.9	.530	.200	1.04	7.28	.690	.100	28.6	.660	.880	.230	65.1	.390	.150	31.1	.080	.440	-.160	.600	.420	-.340
MRLB2501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.30	-3.32	4.05	-.060	21.2	-1.88	----	.990	-1.58	1.38	----	4.42	6.65	----	.980	-1.56	-.890	-65.7	1.64	.780	9.39	-.510	1.68	1.02	1.67	-.850	.370
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TEST	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	65.2	1.42	1.35	2.40	.440	7.61	.390	245	.410	.200	.630	19.8	.010	.410	32.3	1.06	.910	.290	59.4	.220	.120	54.3	.280	.950	.190	.120	.360	7.51
IPB045SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	49.7	1.12	.630	2.53	.570	6.76	.300	240	.780	.220	.890	12.9	.360	.380	14.1	1.23	.940	.320	52.0	.520	.140	35.5	.260	.510	.380	.260	.510	8.87
IPB050SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB050SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB050SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B539-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	30.1	.550	-.160	1.06	.360	5.47	.130	10.2	.300	.160	.540	-2.10	-.010	.220	13.1	.780	.650	-.140	15.2	-.300	.030	37.1	.140	.220	-.330	.280	.220	-.340
B537-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B537-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	48.2	.690	.220	1.12	.470	6.06	.110	14.0	.340	-.030	.530	4.29	.060	.590	20.6	1.000	.670	-.220	28.5	.370	-.050	26.4	.170	-.080	-.070	.440	.340	-.340
B208-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	65.6	1.66	-.210	1.18	.530	6.48	.240	17.2	.620	.090	.910	9.94	.970	.530	20.5	.960	.970	-.140	34.3	1.33	-.010	31.3	.150	.620	-.350	.640	.550	-.250
B191-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	41.0	1.34	-.110	1.04	.350	6.70	.320	84.6	.460	.200	.710	5.09	.160	.410	20.7	.690	.990	.110	32.5	.930	.040	25.3	.250	.310	-.380	.240	.330	-.650
B537-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	40.4	1.29	.210	1.12	.500	6.65	.310	22.1	.570	.110	.820	4.95	.200	.870	20.8	.900	1.07	-.020	41.2	-.360	-.030	42.1	.360	.470	-.180	.460	.520	-.350

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8B027 (SOIL) DATE : 02/25/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	40.6	1.35	-.590	.830	.330	7.85	.340	15.9	.530	.200	1.04	7.28	.690	.100	28.6	.660	.880	.230	65.1	.390	.150	31.1	.080	.440	-.160	.600	.420	-.340
MRLB2501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB2502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.30	-3.32	4.05	-.060	21.2	-1.88	----	.990	-1.58	1.38	----	4.42	6.65	----	.980	-1.56	-.890	-65.7	1.64	.780	9.39	-.510	1.68	1.02	1.67	-.850	.370
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TEST	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	65.2	1.42	1.35	2.40	.440	7.61	.390	245	.410	.200	.630	19.8	.010	.410	32.3	1.06	.910	.290	59.4	.220	.120	54.3	.280	.950	.190	.120	.360	7.51
IPB045SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB045SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	49.7	1.12	.630	2.53	.570	6.76	.300	240	.780	.220	.890	12.9	.360	.380	14.1	1.23	.940	.320	52.0	.520	.140	35.5	.260	.510	.380	.260	.510	8.87
IPB050SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB050SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPB050SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B208-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B539-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	30.1	.550	-.160	1.06	.360	5.47	.130	10.2	.300	.160	.540	-2.10	-.010	.220	13.1	.780	.650	-.140	15.2	-.300	.030	37.1	.140	.220	-.330	.280	.220	-.340
B537-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

7123

B537-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	48.2	.690	.220	1.12	.470	6.06	.110	14.0	.340	-.030	.530	4.29	.060	.590	20.6	1.000	.670	-.220	28.5	.370	-.050	26.4	.170	-.080	-.070	.440	.340	-.340
B208-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	65.6	1.66	-.210	1.18	.530	6.48	.240	17.2	.620	.090	.910	9.94	.970	.530	20.5	.960	.970	-.140	34.3	1.33	-.010	31.3	.150	.620	-.350	.640	.550	-.250
B191-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B191-24S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	41.0	1.34	-.110	1.04	.350	6.70	.320	84.6	.460	.200	.710	5.09	.160	.410	20.7	.690	.990	.110	32.5	.930	.040	25.3	.250	.310	-.380	.240	.330	-.650
B537-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B537-05I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B225-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B173-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B204-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	40.4	1.29	.210	1.12	.500	6.65	.310	22.1	.570	.110	.820	4.95	.200	.870	20.8	.900	1.07	-.020	41.2	-.360	-.030	42.1	.360	.470	-.180	.460	.520	-.350

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8B027001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8B027002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8B027003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8B027004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8B027005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8B027006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8B027007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8B027008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8B027009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8B027010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8B027011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8B027012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8B027013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8B027014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8B027015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLB2501		ID8B027016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLB2502		ID8B027017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8B027018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8B027019			1	☒	ICSAB	None
20	7	2	7	1	Unk	TEST		ID8B027020			1	☒	unk	---
21	8	2	8	1	Blank	Blank		ID8B027021			1	☐		---
22	6	2	6	1	Blank	Blank		ID8B027022			1	☐		---
23	7	2	7	1	QC	CCV1		ID8B027023			1	☒	CCV	None
24	8	2	8	1	QC	CCB1		ID8B027024			1	☒	3XIDL	None
25	18	2	6	2	QC	IPB045SQ		ID8B027025			1	☒	1/2LOQ	None
26	19	2	7	2	QC	IPB045SX		ID8B027026			1	☒	LCS	None
27	20	2	8	2	QC	IPB045SY		ID8B027027			1	☒	LCS	None
28	9	2	9	1	Unk	B225-02A		ID8B027028			1	☒	unk	---
29	10	2	10	1	Unk	B225-02W		ID8B027029			1	☒	unk	---
30	11	2	11	1	Unk	B225-02J		ID8B027030			1	☒	unk	---
31	12	2	12	1	Unk	B225-08W		ID8B027031			1	☒	unk	---
32	13	2	1	2	Unk	B225-09W		ID8B027032			1	☒	unk	---
33	14	2	2	2	Unk	B225-14W		ID8B027033			1	☒	unk	---
34	15	2	3	2	Blank	Blank		ID8B027034			1	☐		---
35	16	2	4	2	QC	CCV2		ID8B027035			1	☒	CCV	None
36	17	2	5	2	QC	CCB2		ID8B027036			1	☒	3XIDL	None
37	21	2	9	2	QC	IPB050SB		ID8B027037			1	☒	1/2LOQ	None
38	22	2	10	2	QC	IPB050SL		ID8B027038			1	☒	LCS	None
39	23	2	11	2	QC	IPB050SC		ID8B027039			1	☒	LCS	None

7125

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	24	2	12	2	Unk	B208-05A		ID8B027040			1	☒	unk	---
41	25	2	1	3	Unk	B208-05R		ID8B027041			1	☒	unk	---
42	26	2	2	3	Unk	B208-05J		ID8B027042			1	☒	unk	---
43	27	2	3	3	Unk	B539-19		ID8B027043			1	☒	unk	---
44	28	2	4	3	Unk	B537-01		ID8B027044			1	☒	unk	---
45	29	2	5	3	Unk	B537-02		ID8B027045			1	☒	unk	---
46	30	2	6	3	Blank	Blank		ID8B027046			1	☐		---
47	31	2	7	3	QC	CCV3		ID8B027047			1	☒	CCV	None
48	32	2	8	3	QC	CCB3		ID8B027048			1	☒	3XIDL	None
49	33	2	9	3	Unk	B537-03T	10X	ID8B027049			1	☒	unk	---
50	34	2	10	3	Unk	B537-04T	10X	ID8B027050			1	☒	unk	---
51	35	2	11	3	Unk	B537-05T	10X	ID8B027051			1	☒	unk	---
52	36	2	12	3	Unk	B537-06T	10X	ID8B027052			1	☒	unk	---
53	37	2	1	4	Unk	B537-07T	10X	ID8B027053			1	☒	unk	---
54	38	2	2	4	Unk	B537-08T	10X	ID8B027054			1	☒	unk	---
55	39	2	3	4	Unk	B537-09T	10X	ID8B027055			1	☒	unk	---
56	40	2	4	4	Blank	Blank		ID8B027056			1	☐		---
57	41	2	5	4	QC	CCV4		ID8B027057			1	☒	CCV	None
58	42	2	6	4	QC	CCB4		ID8B027058			1	☒	3XIDL	None
59	56	2	8	5	Unk	B208-05A		ID8B027059			1	☒	unk	---
60	62	3	2	1	Unk	B537-03		ID8B027060			1	☒	unk	---
61	63	3	3	1	Unk	B537-04		ID8B027061			1	☒	unk	---
62	64	3	4	1	Unk	B537-05		ID8B027062			1	☒	unk	---
63	57	2	9	5	Unk	B537-01T	10X	ID8B027063			1	☒	unk	---
64	58	2	10	5	Unk	B537-02T	10X	ID8B027064			1	☒	unk	---
65	59	2	11	5	Blank	Blank		ID8B027065			1	☐		---
66	55	2	7	5	Blank	Blank		ID8B027066			1	☐		---
67	60	2	12	5	QC	CCV5		ID8B027067			1	☒	CCV	None
68	61	3	1	1	QC	CCB5		ID8B027068			1	☒	3XIDL	None
69	47	2	11	4	Unk	B191-21		ID8B027069			1	☒	unk	---
70	48	2	12	4	Unk	B191-22		ID8B027070			1	☒	unk	---
71	49	2	1	5	Unk	B191-23		ID8B027071			1	☒	unk	---
72	50	2	2	5	Unk	B191-24		ID8B027072			1	☒	unk	---
73	51	2	3	5	Unk	B191-24M		ID8B027073			1	☒	unk	---
74	52	2	4	5	Unk	B191-24S		ID8B027074			1	☒	unk	---
75	65	3	5	1	Blank	Blank		ID8B027075			1	☐		---
76	66	3	6	1	QC	CCV6		ID8B027076			1	☒	CCV	None
77	67	3	7	1	QC	CCB6		ID8B027077			1	☒	3XIDL	None
78	68	3	8	1	Unk	B537-01I	20X	ID8B027078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	69	3	9	1	Unk	B537-05I	5X	ID8B027079			1	☒	unk	---
80	43	2	7	4	Unk	B225-02	dried & sieved	ID8B027080			1	☒	unk	---
81	44	2	8	4	Unk	B225-08	dried & sieved	ID8B027081			1	☒	unk	---
82	45	2	9	4	Unk	B225-09	dried & sieved	ID8B027082			1	☒	unk	---
83	46	2	10	4	Unk	B225-14	dried & sieved	ID8B027083			1	☒	unk	---
84	70	3	10	1	Unk	B173-06W		ID8B027084			1	☒	unk	---
85	71	3	11	1	Unk	B204-09W		ID8B027085			1	☒	unk	---
86	53	2	5	5	QC	CCV7		ID8B027086			1	☒	CCV	None
87	54	2	6	5	QC	CCB7		ID8B027087			1	☒	3XIDL	None
88	72	3	12	1	QC	IPB049SB		ID8B027088			1	☒	1/2LOQ	None
89	73	3	1	2	QC	IPB049SL		ID8B027089			1	☒	LCS	None
90	74	3	2	2	QC	IPB049SC		ID8B027090			1	☒	LCS	None
91	75	3	3	2	Unk	B191-20A		ID8B027091			1	☒	unk	---
92	76	3	4	2	Unk	B191-20		ID8B027092			1	☒	unk	---
93	77	3	5	2	Unk	B191-20J		ID8B027093			1	☒	unk	---
94	78	3	6	2	Unk	B191-20M		ID8B027094			1	☒	unk	---
95	79	3	7	2	Unk	B191-20S		ID8B027095			1	☒	unk	---
96	80	3	8	2	Unk	B191-01		ID8B027096			1	☒	unk	---
97	81	3	9	2	Blank	Blank		ID8B027097			1	☐		---
98	82	3	10	2	QC	CCV8		ID8B027098			1	☒	CCV	None
99	83	3	11	2	QC	CCB8		ID8B027099			1	☒	3XIDL	None
100	84	3	12	2	Unk	B191-02		ID8B027100			1	☒	unk	---
101	85	3	1	3	Unk	B191-03		ID8B027101			1	☒	unk	---
102	86	3	2	3	Unk	B191-04		ID8B027102			1	☒	unk	---
103	87	3	3	3	Unk	B191-05		ID8B027103			1	☒	unk	---
104	88	3	4	3	Unk	B191-06		ID8B027104			1	☒	unk	---
105	89	3	5	3	Unk	B191-07		ID8B027105			1	☒	unk	---
106	90	3	6	3	Unk	B191-08		ID8B027106			1	☒	unk	---
107	91	3	7	3	Unk	B191-09		ID8B027107			1	☒	unk	---
108	92	3	8	3	Unk	B191-10		ID8B027108			1	☒	unk	---
109	93	3	9	3	Blank	Blank		ID8B027109			1	☐		---
110	94	3	10	3	QC	CCV9		ID8B027110			1	☒	CCV	None
111	95	3	11	3	QC	CCB9		ID8B027111			1	☒	3XIDL	None
112	96	3	12	3	Unk	B191-11		ID8B027112			1	☒	unk	---
113	97	3	1	4	Unk	B191-12		ID8B027113			1	☒	unk	---
114	98	3	2	4	Unk	B191-13		ID8B027114			1	☒	unk	---
115	99	3	3	4	Unk	B191-14		ID8B027115			1	☒	unk	---
116	100	3	4	4	Unk	B191-15		ID8B027116			1	☒	unk	---
117	101	3	5	4	Unk	B191-16		ID8B027117			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	102	3	6	4	Unk	B191-17		ID8B027118			1	☒	unk	---
119	103	3	7	4	Unk	B191-18		ID8B027119			1	☒	unk	---
120	104	3	8	4	Unk	B191-19		ID8B027120			1	☒	unk	---
121	105	3	9	4	Blank	Blank		ID8B027121			1	☐		---
122	106	3	10	4	QC	CCV10		ID8B027122			1	☒	CCV	None
123	107	3	11	4	QC	CCB10		ID8B027123			1	☒	3XIDL	None

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Status

Revision	25	
Date Created	8/14/2006 16:36:29	by admin
Date Modified	2/25/2011 10:05:30	by admin
Date Calibrated	2/25/2011 10:55:10	
Current Status	by admin	
Number of Elements	31	
Number of Wavelengths	33	
Locked	No	
Notes:		

Analysis Preferences

Sample Options	# Repeats:	3			
	Delay Time:	0.0 seconds			
	Sample Flush Time:	11 seconds			
Source	Sample Introduction	Nebulizer			
	Plasma View:	Line Selection			
Analysis Maximum Integration Times (sec)	Low WL Range	Axial	15	Radial	15
	High WL Range:	Axial	10	Radial	5
Calibration Mode	Concentration				
Trailing Full Frame Options	Intelli-Frame:		No		
	Max Integration Time (sec):		30		
	WL Range:		Low		
	View:		Axial		
Auto-Increment Sample Names:	Yes				
Use Sample Weight Corrections:	No				

Source Settings

Nebulizer Pump	Flush Pump Rate (rpm):	75
	Analysis Pump Rate (rpm):	23
	Pump Relaxation Time (sec	2
	Pump Tubing Type:	Tygon Orange/White

ID8B027 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00110	.00002	-.00001	.00029	.00010	.00034	-.00004	.00090	.00002	-.00092	Blank
2	S20					.87793		.11963				S20
3	S21					8.5762		1.1547				S21
4	S22				.49651						.15698	S22
5	S23				4.8403						1.6280	S23
6	S24						.09473					S24
7	S25						.97733					S25
8	S26	.27155							.92207	.13673		S26
9	S27	9.7070							8.4117	1.3165		S27
10	S28		.00555									S28
11	S29		.05423									S29
12	S30			.00134								S30
13	S31			.00529								S31
14	ICV	107.50	1.4572	1.0469	2.0334	1.5672	2.5000	1.9964	77.364	2.4635	.93763	ICV
15	ICB	.04064	.00135	-.00059	.00083	.00033*	.00785*	.00034	.01592	.00053	.00020	ICB
16	MRLB2501	.22864	.10082	.00986	.01038	.01035	.01186	.01029	1.0013	.01027	.00943	MRLB2501
17	MRLB2502	.23263	.05100	.01136	.00557	.00441	.09804	.00527	.56084	.01047	.00942	MRLB2502
18	ICSA1	406.41	.00630	-.00332	.00405	-.00006	.02118	-.00188	480.96	.00099	-.00158	ICSA1
19	ICSAB1	403.46	1.0351	1.0816	.54701	.51332	.52957	.96425	471.88	.48070	.47952	ICSAB1
20	TEST	104.67	1.4044	1.0355	1.9891	1.5416	2.4654	1.9679	76.123	2.4538	.94503	TEST
21	Blank	.04723	.00124	.00028	.00070	.00021	.00710	.00023	.03365	.00007	.00004	Blank
22	Blank	*****	1.5126	1.7009	-7.0654	*****	1.0451	*****	*****	.88144	.45000	Blank
23	CCV1	107.15	1.4942	1.0467	2.0258	1.5331	2.4961	1.9351	75.865	2.4410	.97521	CCV1
24	CCB1	.06520	.00142	.00135	.00240	.00044*	.00761*	.00039	.24455	.00041	.00020	CCB1
25	IPB045SQ	.10463*	.00206	-.00102	.00059	.00030	.00312	.00030	.07008	.00095	.00024	IPB045SQ
26	IPB045SX	5.2812	2.4269	.51531	.52024	.52986	.47389	.50836	51.245	.51473	.50786	IPB045SX
27	IPB045SY	5.3375	2.4947	.52854	.52463	.53666	.48094	.52275	51.630	.52241	.51342	IPB045SY
28	B225-02A	71.966	2.4305	.61233	1.3765	.54796	.49831	.56009	147.10	.69133	.56949	B225-02A
29	B225-02W	66.534	.01250	.07466	.86661	.00563	.02853	.05603	99.323	.17767	.04688	B225-02W
30	B225-02J	13.658	.00260	.01578	.17412	.00118	.00657	.01131	20.317	.03621	.00921	B225-02J
31	B225-08W	45.524	.00707	.06180	.94368	.00489	.02292	.05100	128.67	.13907	.02993	B225-08W
32	B225-09W	52.886	.00844	.07522	1.0571	.00595	.02392	.05452	132.63	.23627	.03209	B225-09W
33	B225-14W	40.972	.02392	.12792	.91217	.00474	.04444	.09282	61.829	.12067	.05996	B225-14W
34	Blank	.05064	.00049	.00146	.00126	.00000	.00019	.00001	.06230	-.00004	.00010	Blank
35	CCV2	108.32	1.4902	1.0553	2.0434	1.5323	2.4871	1.9569	74.920	2.4580	.98161	CCV2
36	CCB2	.04966	.00112	.00063	.00253	.00057*	.00676	.00030	.24028	.00078	.00022	CCB2
37	IPB050SB	.05685	.00195	-.00014	.00067	.00048	.00496	-.00002	.93975*	.00100	-.00003	IPB050SB
38	IPB050SL	5.4795	2.4889	.52791	.53148	.54230	.48604	.52401	52.266	.52937	.51714	IPB050SL
39	IPB050SC	5.3928	2.4227	.51752	.52204	.53229	.47752	.50849	51.041	.51877	.50653	IPB050SC
40	B208-05A	94.367	2.6315	.66167	1.8126	.54963	.62135	.61156	78.874	.76052	.65304	B208-05A
41	B208-05R	78.582	.01082	.06741	1.3189	.00830	.02416	.04125	30.133	.12325	.13694	B208-05R
42	B208-05J	16.611	.00221	.01430	.26059	.00162	.00543	.00835	6.0343	.02483	.02600	B208-05J
43	B539-19	124.32	.00140	.04255	.48778	.00750	.11406	.00483	52.893	1.6990	.18974	B539-19
44	B537-01	*****	.02864	-.05326*	.16602	.00092	.21633	.07191	28.356	.15197	2.4129	B537-01
45	B537-02	1284.6*	-.00509	-.00549*	.05715	.00017	.04238	-.00525*	4.5432	1.7189	2.0868	B537-02
46	Blank	2.0396	.00010	-.00002	.00074	.00003	.00023	-.00003	.01415	.00068	.00054	Blank
47	CCV3	108.14	1.4983	1.0569	2.0189	1.5236	2.4917	1.9667	74.857	2.4503	.97124	CCV3
48	CCB3	.03006	.00055	-.00016	.00106	.00036*	.00547	.00013	.01020	.00030	.00016	CCB3
49	B537-03T	.31589	.00120	.00133	.06102	.00004	.06434	.00043	1.4939	.01149	.00058	B537-03T
50	B537-04T	5.8523	-.00054	-.00177	.01759	.00004	.07692	.00023	119.36	.00426	.01372	B537-04T
51	B537-05T	3.6265	-.00042	-.00106	.00672	.00018	.01662	.00036	244.31	.00655	.00119	B537-05T
52	B537-06T	.72907	-.02120	9.8719	.01668	-.00007	.04729	.00068	2.3038	9.7912*	.08848	B537-06T
53	B537-07T	179.90	-.00092	.03159	.17970	.00008	.14549	.00242	2.8043	.60217	.28985	B537-07T
54	B537-08T	187.66	.02883	.00107	.03816	.00007	.02303	-.00035	36.578	.04268	.15593	B537-08T

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
55	B537-09T	139.98	.02206	.00008	.03300	.00005	.01698	-.00031	28.267	.03343	.11810	B537-09T
56	Blank	.06895	.00071	.00118	.00064	.00000	.00000	.00000	.01596	.00004	.00005	Blank
57	CCV4	107.97	1.4802	1.0395	2.0334	1.5253	2.5017	1.9365	74.820	2.4400	.97165	CCV4
58	CCB4	.04823	.00069	.00022	.00112	.00047*	.00606	.00011	.01399	.00034	-.00003	CCB4
59	B208-05A	83.126	2.3472	.59065	1.8071	.54485	.49185	.53320	77.810	.63187	.65332	B208-05A
60	B537-03	2.6425	.00623	.01392	.61906	.00007	.61124	.00017	15.361	.11701	.00423	B537-03
61	B537-04	60.708	-.00283	-.00227	.18227	.00028	.78989	.00113	1097.9*	.03767	.14522	B537-04
62	B537-05	50.838	-.00492	-.00392	.08441	.00033	.22722	.00342	2483.0*	.07586	.01555	B537-05
63	B537-01T	372.73*	.00230	.00011	.01647	.00009	.02206	.00767	5.3964	.01229	.25840	B537-01T
64	B537-02T	189.61	-.00116	.00037	.00537	.00002	.00433	-.00059	.53147	.16279	.20602	B537-02T
65	Blank	.15267	.00020	-.00026	.00015	.00001	.00009	-.00002	.03065	.00006	.00017	Blank
66	Blank	.06944	.00041	.00034	.00088	.00009	-.00007	.00005	.12796	.00001	.00014	Blank
67	CCV5	108.79	1.4950	1.0547	2.0240	1.5224	2.4824	1.9638	74.265	2.4464	.97427	CCV5
68	CCB5	.06558	.00166	-.00021	.00118	.00053*	.00648	.00024	.01717	.00062	.00009	CCB5
69	B191-21	49.135	.02063	.01358	.21407	.00139	.01625	.00043	9.8828	.07082	.00948	B191-21
70	B191-22	72.379	.00508	.02065	.11363	.00213	.01109	.00014	3.2588	.09180	.01249	B191-22
71	B191-23	74.977	.00321	.01620	.69359	.00225	.01804	.00069	24.200	.09568	.01584	B191-23
72	B191-24	69.998	.06856	.02004	.11902	.00178	.00916	-.00060	2.4617	.09646	.01178	B191-24
73	B191-24M	89.979	2.2856	.53399	.63016	.52798	.47334	.50015	53.062	.62810	.51615	B191-24M
74	B191-24S	92.154	2.3511	.53856	.64171	.53786	.47906	.50660	53.927	.61340	.52583	B191-24S
75	Blank	.03789	.00093	-.00012	.00021	.00010	.00124	.00007	.00154	-.00003	.00006	Blank
76	CCV6	108.72	1.4940	1.0504	2.0157	1.5143	2.4802	1.9516	73.782	2.4227	.97599	CCV6
77	CCB6	.04097	.00134	-.00011	.00104	.00035*	.00670	.00032	.08455	.00046	.00020	CCB6
78	B537-01I	192.56	.00219	.00011	.00799	.00005	.01195	.00380	1.3451	.00576	.12632	B537-01I
79	B537-05I	9.2436	-.00135	-.00162	.01599	.00013	.04199	.00076	571.51	.01508	.00310	B537-05I
80	B225-02	86.764	.01381	.10520	1.1814	.00738	.03548	.06307	145.36	.25662	.06820	B225-02
81	B225-08	64.711	.00977	.08320	1.2974	.00696	.02523	.06443	164.00	.17382	.04508	B225-08
82	B225-09	59.312	.00813	.06558	1.1427	.00584	.02205	.05903	151.12	.13002	.04082	B225-09
83	B225-14	63.964	.01219	.06308	1.2256	.00634	.02783	.21055	71.330	.11207	.05645	B225-14
84	B173-06W	.52002	-.01530	.00293	.08651	.00000	.07128	.00013	75.411	1.6803	-.00007	B173-06W
85	B204-09W	.04053	-.00221	.00247	.08110	.00000	.10397	-.00011	173.10	.22755	-.00056	B204-09W
86	CCV7	108.34	1.4873	1.0433	2.0176	1.5138	2.4844	1.9321	73.639	2.4281	.97614	CCV7
87	CCB7	.04045	.00129	.00021	.00112	.00050*	.00665	.00031	.02211	.00057	.00011	CCB7

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ID8B027 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00154	.00002	.00007	.00009	.00001	.00002	.00002	-.00034	.00008	.00000	Blank
2	S20			.19748			.11323					S20
3	S21			1.9612			1.1210					S21
4	S22	.32931	.05847									S22
5	S23	3.1402	2.1805									S23
6	S24							.76081				S24
7	S25							7.5893				S25
8	S26								.78297	.34407		S26
9	S27								7.4783	3.4508		S27
10	S28					.10964						S28
11	S29					.44808						S29
12	S30				.02941						.00147	S30
13	S31				.14427						.00573	S31
14	ICV	2.6149	25.720	2.4051	.53791	57.409	2.3644	2.4833	2.4758	60.162	1.0349	ICV
15	ICB	.00104	.00728	.00069	.00010	.02859	.00066	.00088*	.00023	.06513	.00039	ICB
16	MRLB2501	.01063	.21680	.01024	.01015	.94314	.01007	.01041	.00996	.94079	.00959	MRLB2501
17	MRLB2502	.01109	.10382	.00294	.10073	.18958	.00537	.00997	.01020	.95456	.01007	MRLB2502
18	ICSA1	.00138	192.56	.00442	.00665	192.42	.00098	-.00156	-.00089	-.06572	.00164	ICSA1
19	ICSAB1	.56635	190.27	.95043	1.1647	190.18	.46389	1.0419	.99600	80.251	1.0785	ICSAB1
20	TEST	2.6186	25.191	2.3957	.53311	56.267	2.3494	-.00035	2.4749	59.434	1.0328	TEST
21	Blank	.00031	.01713	.00067	.00013	.01035	.00046	-.00001	.00003	.07507	.00057	Blank
22	Blank	*****	*****	.91560	-14.453	*****	-7.1260	.93835	.95644	*****	1.5915	Blank
23	CCV1	2.6318	25.055	2.4038	.54467	55.933	2.3295	2.5539	2.4852	59.570	1.0453	CCV1
24	CCB1	.00063	.01979	.00001	.00041	.03229	.00106	.00091*	.00029	.05943	.00022	CCB1
25	IPB045SQ	.00086	.08473	.00035	.00033	.01562	.00166	.00061	.00024	.04486	.00087	IPB045SQ
26	IPB045SX	.54427	5.2897	.50045	.00003*	48.217	.50054	.54760	.46866	50.042	.50986	IPB045SX
27	IPB045SY	.55237	5.3244	.50502	.00020*	48.766	.50395	.55288	.47245	50.427	.52631	IPB045SY
28	B225-02A	.75982	159.64	.74208	.02874	67.239	4.5084	.54998	.55983	54.068	.53880	B225-02A
29	B225-02W	.18614	159.51	.23806	.02749	19.839	4.1225	.00962	.06473	3.0919	.00480	B225-02W
30	B225-02J	.03668	33.288	.04805	.00600	4.0977	.85187	.00180	.01241	.57904	.00073	B225-02J
31	B225-08W	.30902	112.60	.12239	.02220	25.119	3.0264	.00534	.05632	2.7696	.00408	B225-08W
32	B225-09W	.30366	147.39	.13268	.02412	25.771	2.9138	.00647	.06493	2.7951	.00418	B225-09W
33	B225-14W	.68511	264.83	.34879	.01963	10.004	3.9073	.01509	.14584	3.3513	.00490	B225-14W
34	Blank	.00036	.17737	.00021	.00059	.00241	.00311	.00007	-.00033	-.02262	-.00011	Blank
35	CCV2	2.6809	24.918	2.4090	.54532	55.563	2.3439	2.5629	2.4967	59.313	1.0576	CCV2
36	CCB2	.00089	.01291	.00036	.00038	.01411	.00123	.00094*	.00032	.05197	.00052	CCB2
37	IPB050SB	.00670*	.01418	.00047	-.00003	.01540	.00118	.00041	.11516*	.03390	.00052	IPB050SB
38	IPB050SL	.56222	5.4014	.50946	-.00003*	49.322	.50813	.55659	.47652	51.303	.52350	IPB050SL
39	IPB050SC	.55343	5.3020	.50038	.00004*	48.395	.49976	.54524	.46800	50.347	.50996	IPB050SC
40	B208-05A	.77402	*****	.97683	.03344	52.866	9.1001	.54106	.57081	54.941	.59428	B208-05A
41	B208-05R	.10161	131.42	.49845	.03163	5.8255	9.0699	.00552	.07761	4.4216	.00701	B208-05R
42	B208-05J	.01984	26.981	.09946	.00651	1.1859	1.8382	.00108	.01428	.83405	.00193	B208-05J
43	B539-19	.13832	326.60	23.122	.09706	302.17	3.7423	.01458	1.8716	2.7214	.00278	B539-19
44	B537-01	.54441	21.008	2.2433	.04963	2.7689	.34645	.00956	.30696	3.2667	-.03952*	B537-01
45	B537-02	.25967	45.473	454.84*	.01549	.92263	.57742	.00462	.15082	.96660	.00786	B537-02
46	Blank	.00028	.05797	.05413	.00008	.01187	.00065	.00001	-.00010	-.02633	.00023	Blank
47	CCV3	2.6646	24.848	2.3891	.53656	55.593	2.3262	2.5274	2.4707	58.620	1.0629	CCV3
48	CCB3	.00054	-.00210	-.00001	.00022	.01307	.00078	.00065	-.00014	.01523	-.00030	CCB3
49	B537-03T	.01584	10.001	.00391	.00009	.28024	.13153	.00212	.00401	.27631	.00003	B537-03T
50	B537-04T	.00608	.76922	.00472	.00298	1.9743	.04573	.00031	.00297	.66084	.00034	B537-04T
51	B537-05T	.01462	1.3819	.00396	.00617	5.8541	.17692	.00019	.01070	.91118	-.00022	B537-05T
52	B537-06T	2.7845	13.813	.02220	.00211	.26185	.02016	.00293	.00798	.14806	.00327	B537-06T
53	B537-07T	.04208	10.920	2.0858	.00066	.53728	.12625	.00087	.01267	.33258	.00068	B537-07T
54	B537-08T	.42043	3.5884	.02014	.00712	3.2699	.07609	.00181	.01058	.05163	.00105	B537-08T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
55	B537-09T	.33694	3.0524	.01194	.00506	2.4845	.06098	.00108	.00780	.03764	.00153	B537-09T
56	Blank	.00037	-.00032	.00015	.00049	-.00635	.00014	.00010	-.00033	-.05324	.00037	Blank
57	CCV4	2.6630	24.645	2.3895	.54237	55.437	2.3356	2.5195	2.4695	59.914	1.0501	CCV4
58	CCB4	.00053	.00429	.00006	.00059	.02058	.00100	.00067	-.00022	.02854	.00037	CCB4
59	B208-05A	.67809	129.74	.97828	.03281	51.580	9.0168	.54083	.57097	54.178	.52721	B208-05A
60	B537-03	.15381	99.999	.02961	.00049	2.8542	1.3258	.01926	.04292	3.1565	.00842	B537-03
61	B537-04	.05878	7.4795	.04562	.03510	19.185	.43608	.00204	.03470	7.9372	.00321	B537-04
62	B537-05	.20742	16.730	.04767	.08915	71.987	2.1220	.00318	.14095	14.228	.01136	B537-05
63	B537-01T	.05110	2.1800	.28615	.00497	.33041	.03728	.00068	.03241	.23707	.00443	B537-01T
64	B537-02T	.02396	4.5543	53.000	.00183	.08855	.05574	.00038	.01467	.06182	.00139	B537-02T
65	Blank	.00004	.00236	.01291	.00070	-.00091	.00020	.00003	-.00036	-.03138	.00128	Blank
66	Blank	.00014	.00063	.00193	.00017	-.00230	.00044	.00013	-.00018	-.03887	-.00083	Blank
67	CCV5	2.6763	24.808	2.3992	.53574	55.315	2.3245	2.5289	2.4756	58.332	1.0615	CCV5
68	CCB5	.00091	.00994	.00097	.00053	.02054	.00096	.00097*	-.00014	.03430	.00133	CCB5
69	B191-21	1.3492	35.305	2.9693	.02341	6.7477	.53126	.00150	.06715	3.9111	.00069	B191-21
70	B191-22	.08761	41.645	.40477	.03101	8.8149	.30959	.00092	.08850	4.7636	.00090	B191-22
71	B191-23	.12378	50.759	.27417	.03374	9.5229	2.2015	.00140	.10240	5.9278	.00213	B191-23
72	B191-24	.15601	43.198	1.3339	.02934	7.4046	.24095	.00133	.08607	3.0330	.00253	B191-24
73	B191-24M	.71031	48.263	1.3387	.03984	55.556	.73108	.53547	.56617	52.635	.51339	B191-24M
74	B191-24S	.72187	49.163	1.3723	.04074	56.244	.74247	.54519	.57576	53.438	.52158	B191-24S
75	Blank	.00018	.01065	.00047	.00008	.00414	.00028	.00016	-.00026	.02719	-.00113	Blank
76	CCV6	2.6723	24.590	2.4060	.53497	54.665	2.3057	2.5342	2.4829	58.114	1.0619	CCV6
77	CCB6	.00071	.00509	.00016	.00041	.02071	.00069	.00099*	.00011	.03255	.00093	CCB6
78	B537-01I	.02510	1.0541	.14195	.00275	.12768	.01740	.00059	.01562	.09517	.00230	B537-01I
79	B537-05I	.03702	3.3341	.00975	.01521	14.138	.42702	.00083	.02739	2.3927	.00067	B537-05I
80	B225-02	.26760	224.51	.29094	.03627	27.985	5.7463	.01111	.08774	4.1815	.00881	B225-02
81	B225-08	.39613	164.40	.17439	.03058	32.271	3.5342	.00723	.08571	3.8214	.00764	B225-08
82	B225-09	.33235	122.14	.15243	.02958	29.751	3.1700	.00597	.06731	3.7759	.00731	B225-09
83	B225-14	.20829	115.33	.39768	.03307	12.374	3.9048	.00684	.07652	5.0995	.00662	B225-14
84	B173-06W	.00316	.42928	.00055	.02763	14.541	.02102	.00258	.00277	2.2582	.00225	B173-06W
85	B204-09W	.00204	.07147	.00083	.04519	35.077	.00059	.00123	-.00045	2.9566	.00502	B204-09W
86	CCV7	2.6751	24.488	2.4051	.53695	54.472	2.3048	2.5367	2.4845	58.479	1.0560	CCV7
87	CCB7	.00082	.00495	.00020	.00087	.02079	.00090	.00107*	-.00002	.04118	-.00036	CCB7

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00132	-.00007	-.00002	.00012	-.00001	-.00012	.00197	Blank
2	S20									S20
3	S21									S21
4	S22							.13792		S22
5	S23							1.3780		S23
6	S24		1.0934							S24
7	S25		6.2447							S25
8	S26									S26
9	S27									S27
10	S28				.00619					S28
11	S29				.05874					S29
12	S30	.04291		.13433		.02647	.01687		.58922	S30
13	S31	.20891		.65377		.12832	.08334		5.7699	S31
14	ICV	.51120	64.261	.49170	2.3395	.47912	.49643	1.5035	2.6200	ICV
15	ICB	.00015	.03113	.00008	.00044	-.00016	.00060	.00042	-.00034	ICB
16	MRLB2501	.00994	1.0346	.01014	.01113	-.00057	.01010	.01044	.01823	MRLB2501
17	MRLB2502	.01018	.52986	.01068	.01110	.00938	.01029	.01060	.01207*	MRLB2502
18	ICSA1	.00078	.00939	-.00051	.00168	.00102	.00167	-.00085	.00037	ICSA1
19	ICSAB1	1.1225	84.449	.50552	.85433	.97124	.98274	.50236	1.0571	ICSAB1
20	TEST	.51150	62.995	.48912	2.3178	.46615	.48844	1.4976	2.5845	TEST
21	Blank	.00012	.04023	.00008	.00043	-.00005	.00036	.00018	.00056	Blank
22	Blank	*****	*****	-6.6359	1.5632	.95066	-13.739	.80758	1.2110	Blank
23	CCV1	.51483	63.619	.49764	2.3220	.49741	.49108	1.5012	2.6313	CCV1
24	CCB1	.00012	.05434	.00028	.00095	.00019	.00012	.00036	.00751	CCB1
25	IPB045SQ	.00001	.04585	.00020	-.00041	.03852	.00034	.00084	.00292	IPB045SQ
26	IPB045SX	.50227	53.784	.48845	.47936	.52461	.51145	.53142	.55812	IPB045SX
27	IPB045SY	.50964	54.142	.49422	.49334	.53077	.51644	.54004	.55940	IPB045SY
28	B225-02A	.50702	54.770	.58345	.47095	.58190	1.2740	.83657	12.962	B225-02A
29	B225-02W	.00009	.43835	.09779	-.00025	.10801	.78855	.30555	12.681	B225-02W
30	B225-02J	.00004	.08177	.01939	.00070	.02159	.15742	.06161	2.5052	B225-02J
31	B225-08W	-.00031	.47689	.09964	-.00056	.04281	.63012	.21500	9.7066	B225-08W
32	B225-09W	-.00040	.51823	.10567	-.00051	.04285	.62117	.29000	10.642	B225-09W
33	B225-14W	-.00014	.49311	.08917	.00050	.93678	.40880	.21390	17.847	B225-14W
34	Blank	-.00004	-.00802	.00009	.00022	.00013	.00040	.00037	.00450	Blank
35	CCV2	.51707	63.622	.50421	2.3471	.49018	.49163	1.5242	2.6262	CCV2
36	CCB2	.00014	.03555	.00026	.00051	.00038	.00026	.00051	.00887	CCB2
37	IPB050SB	-.00002	.03441	.00063	-.00131	.03820	.00024	.00058	.18274*	IPB050SB
38	IPB050SL	.51523	55.111	.49940	.49461	.53266	.52257	.54713	.56201	IPB050SL
39	IPB050SC	.50699	54.055	.48980	.48147	.52138	.51073	.53821	.54940	IPB050SC
40	B208-05A	.57452	54.696	.59272	.51417	.51055	1.1618	.99274	8.4290	B208-05A
41	B208-05R	-.00073	.73986	.10486	-.00282	.04372	.68880	.32249	8.1645	B208-05R
42	B208-05J	-.00007	.13653	.02070	-.00029	.00806	.13670	.06409	1.5553	B208-05J
43	B539-19	.00062	4.1679	.58767	.00061	.05776	.75909	.29299	1.9002	B539-19
44	B537-01	.00047	4.0049	.05411	-.00289	.07017	1.0199	1.2300	84.480*	B537-01
45	B537-02	.00281	1.2564	.01831	-.00081	.06099	.51768	.24190	6.7616	B537-02
46	Blank	-.00004	-.00688	.00008	.00030	.00013	.00053	.00061	.01555	Blank
47	CCV3	.51701	62.810	.49623	2.3610	.48596	.48817	1.5184	2.6010	CCV3
48	CCB3	.00003	.03706	.00014	.00022	-.00033	.00028	.00022	-.00034	CCB3
49	B537-03T	.00018	.29935	.03166	-.00011	.00676	.01796	.00095	.01158	B537-03T
50	B537-04T	.00080	.58411	.03750	.00003	.01538	.40727	.00409	.16113	B537-04T
51	B537-05T	.00008	.47678	.06857	.00014	.00375	.29405	.00346	1.0900	B537-05T
52	B537-06T	.00106	.44522	.00567	.00244	.02504	.12846	.00285	.12751	B537-06T
53	B537-07T	-.00004	.37009	.01424	-.00023	.02163	.05990	.01667	8.2311	B537-07T
54	B537-08T	.00024	.52590	.02123	-.00027	.02450	.27165	.02043	15.929	B537-08T

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
55	B537-09T	.00015	.38053	.01636	.00002	.01671	.21470	.01530	12.262	B537-09T
56	Blank	-.00003	-.02071	.00001	.00025	-.00021	.00005	.00000	.00344	Blank
57	CCV4	.51782	63.772	.50266	2.3134	.48354	.48942	1.5114	2.5893	CCV4
58	CCB4	-.00005	.02635	.00017	-.00008	-.00007	.00044	.00034	-.00034	CCB4
59	B208-05A	.50011	54.059	.59035	.45868	.51213	1.1560	.84227	8.4257	B208-05A
60	B537-03	.00213	3.1058	.32268	-.00467	.07678	.17969	.00749	.13790	B537-03
61	B537-04	.00945	6.5391	.38848	-.00484	.15892	3.4971	.04147	1.7078	B537-04
62	B537-05	-.00148	6.9722	.90197	-.00722*	.05485	3.9393	.04279	13.895	B537-05
63	B537-01T	-.00013	.31690	.00597	-.00158	.00806	.10739	.12444	10.458	B537-01T
64	B537-02T	.00013	.09547	.00156	-.00133	.00550	.04968	.02297	.63595	B537-02T
65	Blank	-.00013	-.00652	.00001	-.00038	-.00051	.00080	.00003	.00107	Blank
66	Blank	.00004	-.00301	.00007	.00015	-.00003	.00036	.00025	.00369	Blank
67	CCV5	.51589	62.567	.49872	2.3545	.48432	.49043	1.5177	2.5951	CCV5
68	CCB5	-.00001	.03131	.00015	.00062	-.00035	.00064	.00055	-.00025	CCB5
69	B191-21	-.00013	.66952	.14228	-.00132	.04086	1.7152	.07418	.26190	B191-21
70	B191-22	-.00024	.67900	.03936	-.00075	.04071	2.1488	.08077	.11740	B191-22
71	B191-23	-.00018	.63712	.34850	-.00184	.04192	2.3382	.09345	.17264	B191-23
72	B191-24	-.00038	.57939	.02654	-.00005	.04398	2.0568	.08581	.12081	B191-24
73	B191-24M	.50817	54.058	.52469	.46849	.51461	2.5178	.61302	.66674	B191-24M
74	B191-24S	.51674	55.033	.53468	.47187	.52078	2.5761	.62413	.67441	B191-24S
75	Blank	-.00001	.00708	.00008	.00007	-.00016	.00073	.00026	-.00094	Blank
76	CCV6	.51525	62.380	.49743	2.3466	.48519	.48726	1.5036	2.5903	CCV6
77	CCB6	.00004	.02530	.00025	.00031	-.00038	.00024	.00033	-.00065	CCB6
78	B537-01I	-.00014	.13961	.00261	.00029	.00354	.05004	.06034	5.0371	B537-01I
79	B537-05I	-.00056	1.2273	.17128	-.00136	.01057	.69697	.00837	2.7217	B537-05I
80	B225-02	-.00025	.67253	.13964	-.00065	.05003	1.3254	.40040	15.157	B225-02
81	B225-08	-.00044	.79328	.13527	-.00126	.04257	.97240	.29343	12.617	B225-08
82	B225-09	-.00054	.73487	.12275	-.00145	.04323	.82974	.24172	11.021	B225-09
83	B225-14	-.00066	.79170	.11278	-.00207	.05522	.69008	.25961	29.463	B225-14
84	B173-06W	-.00021	49.542	.89103	-.00036	.00011	.01130	.00580	.01688	B173-06W
85	B204-09W	-.00021	74.694	2.0773	-.00054	.00021	.00187	.00409	.03084	B204-09W
86	CCV7	.51704	62.757	.50040	2.3234	.48490	.48750	1.5059	2.5822	CCV7
87	CCB7	-.00003	.04214	.00036	.00047	-.00018	.00046	.00052	-.00035	CCB7

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EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Digestor C

B208-05 during digestion, sample boiled over after the addition of H_2O_2. sample was lost. Needs redigestion.

dried & sieved: 1/B208

Book #: EIP-098

Batch: 1PB043S

Matrix: SOIL

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-1301-28	0.5
LCS-2	01-29	0.5
LCS-3	02-13	1.0
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-302	10
HCl	04-333	5+5
H_2O_2	-04-209	10
HNO3(1:1)	SMSB02-145	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SMSA-02-060

☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask

☐ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask

☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask

☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask

☑ Thermometer ID: 101615632

Prepared By: TH

Standard Added By: TH Witnessed By: NT

Extract Rcvd By: TH Checked By: MJM

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPB043S01	IPB043SB	1	g	2/23/11 10:08	100	1	100	1	
11IPB043S02	IPB043SL	1	g	2/23/11 10:08	100	1	100	1	
11IPB043S03	IPB043SC	1	g	2/23/11 10:08	100	1	100	1	
11IPB043S04	B208-02	1.01	g	2/23/11 10:10	100	1	100	0.99	dried & sieved
11IPB043S05	B208-02M	1.01	g	2/23/11 10:11	100	1	100	0.99	dried & sieved
11IPB043S06	B208-02S	1.04	g	2/23/11 10:28	100	1	100	0.962	dried & sieved
11IPB043S07	B208-05	1.01	g	2/23/11 10:29		1		0.99	dried & sieved * Reclgested
11IPB043S08	B208-08	1.06	g	2/23/11 10:30	100	1	100	0.943	dried & sieved
11IPB043S09	B208-13	1	g	2/23/11 10:31	100	1	100	1	dried & sieved
11IPB043S10	A236-01	1	g	2/23/11 10:32	100	1	100	1	

TH
2/23/11

Balance ID: 10304418. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 2/23/11 15:30 Prepared By: TH

☑ Digestion Ended @ 2/23/11 17:30 Checked By: MM

Comments: B208-05: after the addition of H2O2, sample boiled over was lost Date 2/23/2011 2/23/11

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Digestor C

Book #: EIP-098
Batch: IPB050S
Matrix: Soil

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90/91 °C		90/91 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-02-13	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-302	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-209	10
HNO3(1:1)	SM5B-02-145	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101615632

Prepared By: HF / MJM
Standard Added By: HF Witnessed By: MJM
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPB050S01	IPB050SB	1	g	2/24/11 12:09	100	1	100	1	
11IPB050S02	IPB050SL	1	g	2/24/11 12:09	100	1	100	1	
11IPB050S03	IPB050SC	1	g	2/24/11 12:09	100	1	100	1	
11IPB050S04	B191-21	1.02	g	2/24/11 12:11	100	1	100	0.98	
11IPB050S05	B191-22	1.29	g	2/24/11 12:13	100	1	100	0.775	
11IPB050S06	B191-23	1.23	g	2/24/11 12:14	100	1	100	0.813	
11IPB050S07	B191-24	1.3	g	2/24/11 12:15	100	1	100	0.769	
11IPB050S08	B191-24M	1.22	g	2/24/11 12:16	100	1	100	0.82	
11IPB050S09	B191-24S	1.28	g	2/24/11 12:17	100	1	100	0.781	
11IPB050S10	B208-05R	1.04	g	2/24/11 12:18	100	1	100	0.962	
11IPB050S11	B225-02	1.17	g	2/24/11 12:19	100	1	100	0.855	dried & sieved
11IPB050S12	B225-08	1.27	g	2/24/11 12:20	100	1	100	0.787	dried & sieved
11IPB050S13	B225-09	1.09	g	2/24/11 12:21	100	1	100	0.917	dried & sieved
11IPB050S14	B225-14	1.05	g	2/24/11 12:22	100	1	100	0.952	dried & sieved
11IPB050S15	B539-19	1.14	g	2/24/11 12:24	100	1	100	0.877	
11IPB050S16	B537-01	1.09	g	2/24/11 12:29	100	1	100	0.917	
11IPB050S17	B537-02	0.72	g	2/24/11 12:34	100	1	100	1.389	
11IPB050S18	B537-03	1.09	g	2/24/11 12:36	100	1	100	0.917	
11IPB050S19	B537-04	1.31	g	2/24/11 12:38	100	1	100	0.763	
11IPB050S20	B537-05	1.34	g	2/24/11 12:39	100	1	100	0.746	
11IPB050S21	B537-06	1.02	g	2/24/11 12:41	100	1	100	0.98	
11IPB050S22	B537-07	0.82	g	2/24/11 12:44	100	1	100	1.22	
11IPB050S23	B537-08	1.1	g	2/24/11 12:46	100	1	100	0.909	
11IPB050S24	B537-09	1.08	g	2/24/11 12:48	100	1	100	0.926	

TH
2/24/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 2/24/11 13:48 Prepared By: HF/MJM

☑ Digestion Ended @ 2/24/11 15:48 Checked By: TH

Comments: Date 2/24/11

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11C066**

SECTION		PAGE
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GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7059 7060 – 7089
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-10-2011
EMAX Batch No.: 11C066

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 03/04/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB231-10-01	C066-01	02/28/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-10-02	C066-02	02/28/11	SOIL	CADMIUM
CB231-11-01	C066-03	02/28/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-11-02	C066-04	02/28/11	SOIL	CADMIUM
CB231-12-01	C066-05	02/28/11	SOIL	CADMIUM
CB231-12-02	C066-06	02/28/11	SOIL	CADMIUM
CB231-12-02FD	C066-07	02/28/11	SOIL	CADMIUM
CP091-14-01	C066-08	03/01/11	SOIL	CADMIUM
CP091-14-02	C066-09	03/01/11	SOIL	CADMIUM
CP091-15-01	C066-10	03/01/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-15-02	C066-11	03/01/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL

Sample ID	Control #	Col Date	Matrix	Analysis
CP093-S1-02-01	C066-12	03/01/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP093-S1-02-02	C066-13	03/01/11	SOIL	CADMIUM
CP093-S1-03-01	C066-14	03/01/11	SOIL	CADMIUM
CP093-S1-03-02	C066-15	03/01/11	SOIL	CADMIUM
CP093-S1-04-01	C066-16	03/01/11	SOIL	CADMIUM
CP093-S1-04-01FD	C066-17	03/01/11	SOIL	CADMIUM
CP093-S1-04-02	C066-18	03/01/11	SOIL	CADMIUM
CP093-05-01	C066-19	03/01/11	SOIL	CADMIUM
CP093-05-02	C066-20	03/01/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Linh Pham

From: Ye Myint
Sent: Thursday, March 03, 2011 10:50 AM
To: Linh Pham
Cc: Mary J Mendoza
Subject: FW: Rush TAT needed for CP091-15-01
Importance: High

FYI

Ye

310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Wednesday, March 02, 2011 10:45 PM
To: Ye Myint
Subject: Rush TAT needed for CP091-15-01
Importance: High

Hello Ye,

You should be receiving some Tar Creek samples in a day or 2 - please log in sample CP091-15-01 for a 3-day rush TAT for zinc and cadmium. Thanks!

Chain of Custody Record

CH_1002_

11C066

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			March 3, 2011	Page 1 of 2
Address	**Telephone Number**	**Fax Number**			
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401			
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**		
Houston, TX 77079	John Ynfante	Contact John Ynfante			
Project Name	**Carrier/Waybill Numbe**	**CH2M HILL Project Number:**			
Tar Creek OU4	794490985966	413831.CV.01			
Samplers:					
Various CH2M HILL personnel					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cadmium Only				Comments
1	CB231-10-01	February 28, 2011	15:15	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil	X	X	x				Sieve lead sample
2	CB231-10-02	February 28, 2011	15:20	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
3	CB231-11-01	February 28, 2011	14:50	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil	X	X	x				Sieve lead sample
4	CB231-11-02	February 28, 2011	14:55	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
5	CB231-12-01	February 28, 2011	14:15	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
6	CB231-12-02	February 28, 2011	14:20	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
7	CB231-12-02FD	February 28, 2011	14:20	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
8	CP091-14-01	March 1, 2011	9:00	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
9	CP091-14-02	March 1, 2011	9:05	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
10	**CP091-15-01**	**March 1, 2011**	**9:35**	**XRF Cup & 8 oz**	**Plastic & Glass**	**1(ea)**	**ICE**	**Soil**	**X**	**X**	**x**				**Sieve lead sample**
11	CP091-15-02	March 1, 2011	9:40	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil	X	X	x				Sieve lead sample
12	CP093-S1-02-01	March 1, 2011	10:50	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil	X	X	x				Sieve lead sample
13	CP093-S1-02-02	March 1, 2011	10:55	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
14	CP093-S1-03-01	March 1, 2011	11:05	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
15	CP093-S1-03-02	March 1, 2011	11:10	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				
16	CP093-S1-04-01	March 1, 2011	13:55	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x				

Turnaround Time

7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T = 3.6°C

1. Relinquished By Richy Ricks	***Date:*** March 3, 2011	***Time:*** 18:00	***1. Received By:***	***Date:***	***Time:***
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***	
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:*** 3/4/11	0930

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

1003

Chain of Custody Record

11C066

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			March 3, 2011	Page 2 of 2
Address	**Telephone Number**	**Fax Number**			
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401			
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**		
Houston, TX 77079	John Ynfante	Contact John Ynfante			
Project Name	**Carrier/Waybill Numbe**	**CH2M HILL Project Number:**			
Tar Creek OU4		413831.CV.01			
Samplers:					
Various CH2M HILL personnel					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cadmium Only					Comments
17	CP093-S1-04-01FD	March 1, 2011	13:55	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x					
18	CP093-S1-04-02	March 1, 2011	14:00	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x					
19	CP093-05-01	March 1, 2011	11:25	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x					
20	CP093-05-02	March 1, 2011	11:30	XRF Cup & 8 oz	Plastic & Glass	1(ea)	ICE	Soil			x					

Turnaround Time

7 *Days* **UNLESS BOLDED, 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Richy Ricks	**Date:** March 3, 2011	**Time:** 18:00	**1. Received By:**	**Date:**	**Time:**
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:** 3/4/11	0930

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

1001

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11C066
☐ EMAX Courier		Recepient L-LUNA
☐ Client Delivery		Date 3-4-11
☑ Third Party FEDEX	794490985961	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 1 3.6 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 3/4/11

SRF [signature] Date 3/4/11

PM LP for Yo Date 3/4/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: (916) 747-2986
Richy Ricks
CH2M HILL
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Origin ID: SMFA

FedEx Express

J11101012220225

Ship Date: 03MAR11
ActWgt: 39.5 LB
CAD: 6300065/WBUS0200

Dims: 24 X 13 X 13 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Sample Recieving
E MAX Laboratories, Inc.
1835 W. 205th Street

Torrance, CA 90501

Ref # 413831.cv.01/AAA00006605
Invoice #
PO #
Dept #

11C066

FRI - 04 MAR A1
PRIORITY OVERNIGHT

TRK# 7944 9098 5966
0201

90 AVXA

90501
CA-US
LAX

50DG2/BDD9/7EFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	Description
ND	For wet chemistry methods, indicates that the analyte is non detect at the RL. For metals and organics (Volatiles, Semi-volatiles, Pesticides, PCBs, Explosives), indicates that the analyte is non detect at the MDL.
J	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
B	Indicates that the analyte is found in the associated method blank at or above the RL as well as in the sample at above QC level.
E	Indicates that the result is above the maximum calibration range.
N	Indicates presumptive evidence of a compound.
*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

Quality Control	
MBLK	Method Blank
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
Others	
CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method(s), protocol(s), or project(s) specifically requires otherwise.

REPORTING CONVENTIONS

Decimal places, trailing zeroes or the lack thereof appearing on the data should not be interpreted as indicative of the precision of the analytical procedure, but rather as a result of reporting format limitations.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11C066

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C066

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of twenty (20) soil samples were received on 03/04/11 for metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement except Zinc was detected above 1/2LOQ. However, Zinc concentrations on all associated samples were detected at least 185 times the method blank concentration level, thus, no corrective action was taken.

Lab Control Sample
One set of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries for IPC013SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for C066-20M/S were within project QC limits.
In addition Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.
Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C066
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC013SB	1	NA	03/08/1114:39	03/07/1115:31	ID8C008061	ID8C008059	IPC013S	Method Blank
LCS1S	IPC013SL	1	NA	03/08/1114:42	03/07/1115:31	ID8C008062	ID8C008059	IPC013S	Lab Control Sample (LCS)
LCD1S	IPC013SC	1	NA	03/08/1114:44	03/07/1115:31	ID8C008063	ID8C008059	IPC013S	LCS Duplicate
CP093-05-02AS	C066-20A	0.996	17.4	03/08/1114:47	03/07/1115:31	ID8C008064	ID8C008059	IPC013S	Analytical Spike Sample
CP093-05-02	C066-20	0.996	17.4	03/08/1114:49	03/07/1115:31	ID8C008065	ID8C008059	IPC013S	Field Sample
CP093-05-02DL	C066-20J	4.83	17.4	03/08/1114:52	03/07/1115:31	ID8C008066	ID8C008059	IPC013S	Diluted Sample
CP091-15-01	C066-10	0.930	26.0	03/08/1115:00	03/07/1115:31	ID8C008069	ID8C008059	IPC013S	Field Sample
CB231-10-01	C066-01	0.909	22.5	03/08/1115:11	03/07/1115:31	ID8C008073	ID8C008071	IPC013S	Field Sample
CP091-15-02	C066-11	0.842	21.3	03/08/1115:45	03/07/1115:31	ID8C008085	ID8C008083	IPC013S	Field Sample
CP093-S1-02-01	C066-12	0.903	18.4	03/08/1115:48	03/07/1115:31	ID8C008086	ID8C008083	IPC013S	Field Sample
CB231-11-01	C066-03T	7.81	18.7	03/08/1116:52	03/07/1115:31	ID8C008109	ID8C008106	IPC013S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 15:15
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	C8231-10-01	Date Analyzed:	03/08/11 15:11
Lab Samp ID:	C066-01	Dilution Factor:	0.909
Lab File ID:	ID8C008073	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	22.5
Calib. Ref.:	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	12.4	1.17	0.235
Zinc	2300	2.35	1.17

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 14:50
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CB231-11-01	Date Analyzed:	03/08/11 16:52
Lab Samp ID:	C066-03T	Dilution Factor:	7.81
Lab File ID:	ID8C008109	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	18.7
Calib. Ref.:	ID8C008105	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	25.3	9.61	1.92
Zinc	4530	19.2	9.61

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 09:35
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID	: CP091-15-01	Date Analyzed:	03/08/11 15:00
Lab Samp ID	: C066-10	Dilution Factor:	0.930
Lab File ID	: ID8C008069	Matrix :	SOIL
Ext Btch ID	: IPC013S	% Moisture :	26.0
Calib. Ref.	: ID8C008059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	21.0	1.26	0.251
Zinc	3250	2.51	1.26

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 09:40
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP091-15-02	Date Analyzed:	03/08/11 15:45
Lab Samp ID:	C066-11	Dilution Factor:	0.842
Lab File ID:	ID8C008085	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	21.3
Calib. Ref.:	ID8C008083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.53	1.07	0.214
Zinc	442	2.14	1.07

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 10:50
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP093-S1-02-01	Date Analyzed:	03/08/11 15:48
Lab Samp ID:	C066-12	Dilution Factor:	0.903
Lab File ID:	ID8C008086	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	18.4
Calib. Ref.:	ID8C008083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.779J	1.11	0.221
Zinc	243	2.21	1.11

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/07/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	MBLK1S	Date Analyzed:	03/08/11 14:39
Lab Samp ID:	IPC013SB	Dilution Factor:	1
Lab File ID:	ID8C008061	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	NA
Calib. Ref.:	ID8C008059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	1.19J	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC013SB	IPC013SL	IPC013SC		
LAB FILE ID:	ID8C008061	ID8C008062	ID8C008063		
DATIME EXTRCTD:	03/07/1115:31	03/07/1115:31	03/07/1115:31	DATE COLLECTED:	NA
DATIME ANALYZD:	03/08/1114:39	03/08/1114:42	03/08/1114:44	DATE RECEIVED:	03/07/11
PREP. BATCH:	IPC013S	IPC013S	IPC013S		
CALIB. REF:	ID8C008059	ID8C008059	ID8C008059		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.6	99	50	50.4	101	1	80-120	20
Zinc	1.19J	50	55	108	50	55.9	109	2	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.4
DILUTION FACTOR:	0.996	4.83		
SAMPLE ID.	CP093-05-02	CP093-05-02DL		
EMAX SAMP ID:	C066-20	C066-20J		
LAB FILE ID:	ID8C008065	ID8C008066		
DATE EXTRACTED:	03/07/1115:31	03/07/1115:31	DATE COLLECTED:	03/01/11 11:30
DATE ANALYZED:	03/08/1114:49	03/08/1114:52	DATE RECEIVED:	03/04/11
PREP. BATCH:	IPC013S	IPC013S		
CALIB. REF:	ID8C008059	ID8C008059		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10
Zinc	52.1	49.2	6	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.4
DILTN FACTR:	0.996	0.996		
SAMPLE ID:	CP093-05-02			
CONTROL NO.:	C066-20	C066-20A		
LAB FILE ID:	ID8C008065	ID8C008064		
DATIME EXTRCTD:	03/07/1115:31	03/07/1115:31	DATE COLLECTED:	03/01/11 11:30
DATIME ANALYZD:	03/08/1114:49	03/08/1114:47	DATE RECEIVED:	03/04/11
PREP. BATCH:	IPC013S	IPC013S		
CALIB. REF:	ID8C008059	ID8C008059		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	60.3	58.9	98	75-125
Zinc	52.1	60.3	116	106	75-125

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C066
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC013SB	1	NA	03/08/1114:39	03/07/1115:31	ID8C008061	ID8C008059	IPC013S	Method Blank
LCS1S	IPC013SL	1	NA	03/08/1114:42	03/07/1115:31	ID8C008062	ID8C008059	IPC013S	Lab Control Sample (LCS)
LCD1S	IPC013SC	1	NA	03/08/1114:44	03/07/1115:31	ID8C008063	ID8C008059	IPC013S	LCS Duplicate
CP093-05-02AS	C066-20A	0.996	17.4	03/08/1114:47	03/07/1115:31	ID8C008064	ID8C008059	IPC013S	Analytical Spike Sample
CP093-05-02	C066-20	0.996	17.4	03/08/1114:49	03/07/1115:31	ID8C008065	ID8C008059	IPC013S	Field Sample
CP093-05-02DL	C066-20J	4.83	17.4	03/08/1114:52	03/07/1115:31	ID8C008066	ID8C008059	IPC013S	Diluted Sample
CP093-05-02MS	C066-20M	0.793	17.4	03/08/1114:55	03/07/1115:31	ID8C008067	ID8C008059	IPC013S	Matrix Spike Sample (MS)
CP093-05-02MSD	C066-20S	0.755	17.4	03/08/1114:58	03/07/1115:31	ID8C008068	ID8C008059	IPC013S	MS Duplicate (MSD)
CB231-10-02	C066-02	0.770	22.0	03/08/1115:14	03/07/1115:31	ID8C008074	ID8C008071	IPC013S	Field Sample
CB231-11-02	C066-04	0.802	19.7	03/08/1115:20	03/07/1115:31	ID8C008076	ID8C008071	IPC013S	Field Sample
CB231-12-01	C066-05	0.887	18.3	03/08/1115:23	03/07/1115:31	ID8C008077	ID8C008071	IPC013S	Field Sample
CB231-12-02	C066-06	0.868	19.0	03/08/1115:25	03/07/1115:31	ID8C008078	ID8C008071	IPC013S	Field Sample
CB231-12-02FD	C066-07	0.959	18.9	03/08/1115:28	03/07/1115:31	ID8C008079	ID8C008071	IPC013S	Field Sample
CP091-14-01	C066-08	0.962	27.1	03/08/1115:31	03/07/1115:31	ID8C008080	ID8C008071	IPC013S	Field Sample
CP091-14-02	C066-09	0.810	25.4	03/08/1115:34	03/07/1115:31	ID8C008081	ID8C008071	IPC013S	Field Sample
CP093-S1-02-02	C066-13	0.898	18.8	03/08/1115:51	03/07/1115:31	ID8C008087	ID8C008083	IPC013S	Field Sample
CP093-S1-03-01	C066-14	0.921	18.2	03/08/1115:54	03/07/1115:31	ID8C008088	ID8C008083	IPC013S	Field Sample
CP093-S1-03-02	C066-15	0.790	17.2	03/08/1115:57	03/07/1115:31	ID8C008089	ID8C008083	IPC013S	Field Sample
CP093-S1-04-01	C066-16	0.940	20.7	03/08/1116:00	03/07/1115:31	ID8C008090	ID8C008083	IPC013S	Field Sample
CP093-S1-04-01FD	C066-17	0.903	21.0	03/08/1116:02	03/07/1115:31	ID8C008091	ID8C008083	IPC013S	Field Sample
CP093-S1-04-02	C066-18	0.889	21.2	03/08/1116:05	03/07/1115:31	ID8C008092	ID8C008083	IPC013S	Field Sample
CP093-05-01	C066-19	0.715	18.3	03/08/1116:08	03/07/1115:31	ID8C008093	ID8C008083	IPC013S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 15:20
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CB231-10-02	Date Analyzed:	03/08/11 15:14
Lab Samp ID:	C066-02	Dilution Factor:	0.770
Lab File ID:	ID8C008074	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	22.0
Calib. Ref.:	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	4.95	0.987	0.197

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 14:55
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CB231-11-02	Date Analyzed:	03/08/11 15:20
Lab Samp ID:	C066-04	Dilution Factor:	0.802
Lab File ID:	ID8C008076	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	19.7
Calib. Ref.:	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	52.0	0.999	0.200

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 14:15
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CB231-12-01	Date Analyzed:	03/08/11 15:23
Lab Samp ID:	C066-05	Dilution Factor:	0.887
Lab File ID:	ID8C008077	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	18.3
Calib. Ref.:	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.377J	1.09	0.217

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 14:20
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CB231-12-02	Date Analyzed:	03/08/11 15:25
Lab Samp ID:	C066-06	Dilution Factor:	0.868
Lab File ID:	ID8C008078	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	19.0
Calib. Ref.:	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.07	0.214

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 14:20
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CB231-12-02FD	Date Analyzed:	03/08/11 15:28
Lab Samp ID:	C066-07	Dilution Factor:	0.959
Lab File ID:	ID8C008079	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	18.9
Calib. Ref.:	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.18	0.236

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 09:00
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP091-14-01	Date Analyzed:	03/08/11 15:31
Lab Samp ID:	C066-08	Dilution Factor:	0.962
Lab File ID:	ID8C008080	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	27.1
Calib. Ref.:	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	92.6	1.32	0.264

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 09:05
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP091-14-02	Date Analyzed:	03/08/11 15:34
Lab Samp ID:	C066-09	Dilution Factor:	0.810
Lab File ID:	ID8C008081	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	25.4
Calib Ref :	ID8C008071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	39.8	1.09	0.217

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected	: 03/01/11 10:55
Project	: TAR CREEK OU4	Date Received	: 03/04/11
SDG NO.	: 11C066	Date Extracted	: 03/07/11 15:31
Sample ID	: CP093-S1-02-02	Date Analyzed	: 03/08/11 15:51
Lab Samp ID	: C066-13	Dilution Factor	: 0.898
Lab File ID	: ID8C008087	Matrix	: SOIL
Ext Btch ID	: TPC013S	% Moisture	: 18.8
Calib. Ref.	: ID8C008083	Instrument ID	: EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.11	0.221

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 11:05
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP093-S1-03-01	Date Analyzed:	03/08/11 15:54
Lab Samp ID:	C066-14	Dilution Factor:	0.921
Lab File ID:	ID8C008088	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	18.2
Calib. Ref.:	ID8C008083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.13	0.225

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 11:10
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP093-S1-03-02	Date Analyzed:	03/08/11 15:57
Lab Samp ID:	C066-15	Dilution Factor:	0.790
Lab File ID:	ID8C008089	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	17.2
Calib. Ref.:	ID8C008083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	0.954	0.191

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected	: 03/01/11 13:55
Project	: TAR CREEK OU4	Date Received	: 03/04/11
SDG NO.	: 11C066	Date Extracted	: 03/07/11 15:31
Sample ID	: CP093-S1-04-01	Date Analyzed	: 03/08/11 16:00
Lab Samp ID	: C066-16	Dilution Factor	: 0.940
Lab File ID	: ID8C008090	Matrix	: SOIL
Ext Btch ID	: IPC013S	% Moisture	: 20.7
Calib. Ref.	: ID8C008083	Instrument ID	: EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.19	0.237

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 13:55
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP093-S1-04-01FD	Date Analyzed:	03/08/11 16:02
Lab Samp ID:	C066-17	Dilution Factor:	0.903
Lab File ID:	ID8C008091	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	21.0
Calib. Ref.:	ID8C008083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.14	0.229

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 14:00
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP093-S1-04-02	Date Analyzed:	03/08/11 16:05
Lab Samp ID:	C066-18	Dilution Factor:	0.889
Lab File ID:	ID8C008092	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	21.2
Calib. Ref.:	ID8C008083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.13	0.226

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 11:25
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	CP093-05-01	Date Analyzed:	03/08/11 16:08
Lab Samp ID:	C066-19	Dilution Factor:	0.715
Lab File ID:	ID8C008093	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	18.3
Calib. Ref.:	ID8C008083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.278J	0.875	0.175

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected	: 03/01/11 11:30
Project	: TAR CREEK OU4	Date Received	: 03/04/11
SDG NO.	: 11C066	Date Extracted	: 03/07/11 15:31
Sample ID	: CP093-05-02	Date Analyzed	: 03/08/11 14:49
Lab Samp ID	: C066-20	Dilution Factor	: 0.996
Lab File ID	: ID8C008065	Matrix	: SOIL
Ext Btch ID	: IPC013S	% Moisture	: 17.4
Calib. Ref.	: ID8C008059	Instrument ID	: EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.21	0.241

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/07/11
SDG NO.	: 11C066	Date Extracted:	03/07/11 15:31
Sample ID:	MBLK1S	Date Analyzed:	03/08/11 14:39
Lab Samp ID:	IPC013SB	Dilution Factor:	1
Lab File ID:	ID8C008061	Matrix :	SOIL
Ext Btch ID:	IPC013S	% Moisture :	NA
Calib. Ref.:	ID8C008059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC013S8	IPC013SL	IPC013SC		
LAB FILE ID:	ID8C008061	ID8C008062	ID8C008063		
DATIME EXTRCTD:	03/07/1115:31	03/07/1115:31	03/07/1115:31	DATE COLLECTED:	NA
DATIME ANALYZD:	03/08/1114:39	03/08/1114:42	03/08/1114:44	DATE RECEIVED:	03/07/11
PREP. BATCH:	IPC013S	IPC013S	IPC013S		
CALIB. REF:	ID8C008059	ID8C008059	ID8C008059		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.6	99	50	50.4	101	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	17.4
DILTN FACTR:	0.996	0.793	0.755		
SAMPLE ID:	CP093-05-02				
CONTROL NO.:	C066-20	C066-20M	C066-20S		
LAB FILE ID:	ID8C008065	ID8C008067	ID8C008068		
DATIME EXTRCTD:	03/07/1115:31	03/07/1115:31	03/07/1115:31	DATE COLLECTED:	03/01/11 11:30
DATIME ANALYZD:	03/08/1114:49	03/08/1114:55	03/08/1114:58	DATE RECEIVED:	03/04/11
PREP. BATCH:	IPC013S	IPC013S	IPC013S		
CALIB. REF:	ID8C008059	ID8C008059	ID8C008059		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	48	46.6	97	45.7	44.5	97	5	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.4
DILUTION FACTOR:	0.996	4.83		
SAMPLE ID:	CP093-05-02	CP093-05-02DL		
EMAX SAMP ID:	C066-20	C066-20J		
LAB FILE ID:	ID8C008065	ID8C008066		
DATE EXTRACTED:	03/07/1115:31	03/07/1115:31	DATE COLLECTED:	03/01/11 11:30
DATE ANALYZED:	03/08/1114:49	03/08/1114:52	DATE RECEIVED:	03/04/11
PREP. BATCH:	IPC013S	IPC013S		
CALIB. REF:	ID8C008059	ID8C008059		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.4
DILTN FACTR:	0.996	0.996		
SAMPLE ID:	CP093-05-02			
CONTROL NO.:	C066-20	C066-20A		
LAB FILE ID:	ID8C008065	ID8C008064		
DATIME EXTRCTD:	03/07/1115:31	03/07/1115:31	DATE COLLECTED:	03/01/11 11:30
DATIME ANALYZD:	03/08/1114:49	03/08/1114:47	DATE RECEIVED:	03/04/11
PREP. BATCH:	IPC013S	IPC013S		
CALIB. REF:	ID8C008059	ID8C008059		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	60.3	58.9	98	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/8/11 11:00

End Date: 3/8/11 19:22

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8C008

Analytical Sequence: S-11C6010(VG)

Method File: 11C6010(VG)

Database: EmaxL3

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

— 1PC013SB Zn > 2LOQ, < RL
Associated samples detected > 10X method blank concentration level.
∴ NO corrective action.
— C06603 Zn > LDR
— TCLP B553RA ↑Se recovery
— TCLP B553D7 RSD ↑ for Se 227
— CCB13 Na > MDL. However, associated samples detected > 10X blank conc. level
- B569-01 IS < 50%. ↑[Na]
- C414, C419 TCLP = NO IS

	STANDARDS ID		STANDARDS ID
S0	SMIB14-40-05	S30	SMIB14-4201
S1	NA	S31	4201
S2		ICV	2701
S3		CCV	3805
S4		ICSA	4404
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SMIB14-4409
S10		MRL2	4403
S11			
S12			
S16			
S17			
S18			
S20	SMIB14-3702		
S21	3702		
S22	3703		
S23	3704		
S24	40-01		
S25	40-02		
S26	2801		
S27	2802		
S28	4003		
S29	40-04		

Analyzed By: TH

Date: 3/8/11

SEQUENCE FILE : IC8C008

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C008001	Blank	11:00	03/08/11	1.000
ID8C008002	S20	11:03	03/08/11	1.000
ID8C008003	S21	11:06	03/08/11	1.000
ID8C008004	S22	11:08	03/08/11	1.000
ID8C008005	S23	11:11	03/08/11	1.000
ID8C008006	S24	11:14	03/08/11	1.000
ID8C008007	S25	11:17	03/08/11	1.000
ID8C008008	S26	11:20	03/08/11	1.000
ID8C008009	S27	11:23	03/08/11	1.000
ID8C008010	S28	11:26	03/08/11	1.000
ID8C008011	S29	11:29	03/08/11	1.000
ID8C008012	S30	11:32	03/08/11	1.000
ID8C008013	S31	11:34	03/08/11	1.000
ID8C008014	ICV	11:37	03/08/11	1.000
ID8C008015	ICB	11:40	03/08/11	1.000
ID8C008016	MRLC0801	11:43	03/08/11	1.000
ID8C008017	MRLC0802	11:46	03/08/11	1.000
ID8C008018	ICSA1	11:48	03/08/11	1.000
ID8C008019	ICSAB1	11:51	03/08/11	1.000
ID8C008020	CCV1	11:54	03/08/11	1.000
ID8C008021	CCB1	11:57	03/08/11	1.000
ID8C008022	IPC011WB	12:00	03/08/11	1.000
ID8C008023	IPC011WL	12:02	03/08/11	1.000
ID8C008024	IPC011WC	12:05	03/08/11	1.000
ID8C008025	C061-02A	12:08	03/08/11	1.000
ID8C008026	C061-02	12:10	03/08/11	1.000
ID8C008027	C061-02J	12:13	03/08/11	5.000
ID8C008028	C061-02M	12:16	03/08/11	1.000
ID8C008029	C061-02S	12:19	03/08/11	1.000
ID8C008030	C061-03	12:21	03/08/11	1.000
ID8C008031	Blank	12:24	03/08/11	1.000
ID8C008032	CCV2	12:27	03/08/11	1.000
ID8C008033	CCB2	12:30	03/08/11	1.000
ID8C008034	C061-04	12:32	03/08/11	1.000
ID8C008035	C061-05	12:35	03/08/11	1.000
ID8C008036	C061-06	12:38	03/08/11	1.000
ID8C008037	C061-07	12:41	03/08/11	1.000
ID8C008038	C061-08	12:44	03/08/11	1.000
ID8C008039	C061-09	12:46	03/08/11	1.000
ID8C008040	C061-10	12:49	03/08/11	1.000
ID8C008041	C061-11	12:52	03/08/11	1.000
ID8C008042	C061-12	12:55	03/08/11	1.000
ID8C008043	Blank	12:58	03/08/11	1.000
ID8C008044	CCV3	13:00	03/08/11	1.000
ID8C008045	CCB3	13:03	03/08/11	1.000
ID8C008046	C061-13	13:06	03/08/11	1.000
ID8C008047	C061-14	13:09	03/08/11	1.000
ID8C008048	C061-15	13:12	03/08/11	1.000
ID8C008049	CCV4	14:02	03/08/11	1.000
ID8C008050	CCB4	14:04	03/08/11	1.000
ID8C008051	C061-13W	14:10	03/08/11	1.000
ID8C008052	C061-14W	14:13	03/08/11	1.000
ID8C008053	C061-15W	14:16	03/08/11	1.000
ID8C008054	C050-04	14:19	03/08/11	1.000

ID8C008055	C050-12	14:22	03/08/11	1.000
ID8C008056	Blank	14:25	03/08/11	1.000
ID8C008057	ICSA2	14:27	03/08/11	1.000
ID8C008058	ICSAB2	14:30	03/08/11	1.000
ID8C008059	CCV5	14:33	03/08/11	1.000
ID8C008060	CCB5	14:36	03/08/11	1.000
ID8C008061	IPC013SB	14:39	03/08/11	1.000
ID8C008062	IPC013SL	14:42	03/08/11	1.000
ID8C008063	IPC013SC	14:44	03/08/11	1.000
ID8C008064	C066-20A	14:47	03/08/11	1.000
ID8C008065	C066-20	14:49	03/08/11	1.000
ID8C008066	C066-20J	14:52	03/08/11	5.000
ID8C008067	C066-20M	14:55	03/08/11	1.000
ID8C008068	C066-20S	14:58	03/08/11	1.000
ID8C008069	C066-10	15:00	03/08/11	1.000
ID8C008070	Blank	15:03	03/08/11	1.000
ID8C008071	CCV6	15:06	03/08/11	1.000
ID8C008072	CCB6	15:09	03/08/11	1.000
ID8C008073	C066-01	15:11	03/08/11	1.000
ID8C008074	C066-02	15:14	03/08/11	1.000
ID8C008075	C066-03	15:17	03/08/11	1.000
ID8C008076	C066-04	15:20	03/08/11	1.000
ID8C008077	C066-05	15:23	03/08/11	1.000
ID8C008078	C066-06	15:25	03/08/11	1.000
ID8C008079	C066-07	15:28	03/08/11	1.000
ID8C008080	C066-08	15:31	03/08/11	1.000
ID8C008081	C066-09	15:34	03/08/11	1.000
ID8C008082	Blank	15:36	03/08/11	1.000
ID8C008083	CCV7	15:40	03/08/11	1.000
ID8C008084	CCB7	15:43	03/08/11	1.000
ID8C008085	C066-11	15:45	03/08/11	1.000
ID8C008086	C066-12	15:48	03/08/11	1.000
ID8C008087	C066-13	15:51	03/08/11	1.000
ID8C008088	C066-14	15:54	03/08/11	1.000
ID8C008089	C066-15	15:57	03/08/11	1.000
ID8C008090	C066-16	16:00	03/08/11	1.000
ID8C008091	C066-17	16:02	03/08/11	1.000
ID8C008092	C066-18	16:05	03/08/11	1.000
ID8C008093	C066-19	16:08	03/08/11	1.000
ID8C008094	Blank	16:10	03/08/11	1.000
ID8C008095	CCV8	16:13	03/08/11	1.000
ID8C008096	CCB8	16:16	03/08/11	1.000
ID8C008097	TXC001WQ	16:19	03/08/11	1.000
ID8C008098	B553-08A	16:21	03/08/11	1.000
ID8C008099	B553-08W	16:24	03/08/11	1.000
ID8C008100	B553-08J	16:27	03/08/11	5.000
ID8C008101	B553-08G	16:30	03/08/11	1.000
ID8C008102	B553-08H	16:33	03/08/11	1.000
ID8C008103	Blank	16:35	03/08/11	1.000
ID8C008104	Blank	16:38	03/08/11	1.000
ID8C008105	CCV9	16:41	03/08/11	1.000
ID8C008106	CCB9	16:44	03/08/11	1.000
ID8C008107	B280-01W	16:47	03/08/11	1.000
ID8C008108	B553-07W	16:50	03/08/11	1.000
ID8C008109	C066-03T	16:52	03/08/11	10.00
ID8C008110	Blank	16:55	03/08/11	1.000
ID8C008111	Blank	16:58	03/08/11	1.000

ID8C008112	CCV10	17:01	03/08/11	1.000
ID8C008113	CCB10	17:04	03/08/11	1.000
ID8C008114	B553-08A	17:06	03/08/11	5.000
ID8C008115	B553-08T	17:09	03/08/11	5.000
ID8C008116	B553-08J	17:12	03/08/11	25.00
ID8C008117	B553-08G	17:15	03/08/11	5.000
ID8C008118	B553-08H	17:18	03/08/11	5.000
ID8C008119	Blank	17:20	03/08/11	1.000
ID8C008120	CCV11	17:23	03/08/11	1.000
ID8C008121	CCB11	17:26	03/08/11	1.000
ID8C008122	IPC012WB	17:29	03/08/11	1.000
ID8C008123	IPC012WL	17:32	03/08/11	1.000
ID8C008124	IPC012WC	17:34	03/08/11	1.000
ID8C008125	C051-02A	17:37	03/08/11	1.000
ID8C008126	C051-02	17:39	03/08/11	1.000
ID8C008127	C051-02J	17:42	03/08/11	5.000
ID8C008128	C051-02M	17:45	03/08/11	1.000
ID8C008129	C051-02S	17:48	03/08/11	1.000
ID8C008130	C051-01	17:50	03/08/11	1.000
ID8C008131	Blank	17:53	03/08/11	1.000
ID8C008132	CCV12	17:56	03/08/11	1.000
ID8C008133	CCB12	17:58	03/08/11	1.000
ID8C008134	C708-01	18:01	03/08/11	1.000
ID8C008135	C069-02	18:04	03/08/11	1.000
ID8C008136	C069-03	18:07	03/08/11	1.000
ID8C008137	C002-02	18:10	03/08/11	1.000
ID8C008138	C026-02	18:13	03/08/11	1.000
ID8C008139	C026-03	18:16	03/08/11	1.000
ID8C008140	B569-01	18:18	03/08/11	1.000
ID8C008141	Blank	18:21	03/08/11	1.000
ID8C008142	ICSA3	18:24	03/08/11	1.000
ID8C008143	ICSAB3	18:27	03/08/11	1.000
ID8C008144	CCV13	18:30	03/08/11	1.000
ID8C008145	CCB13	18:33	03/08/11	1.000
ID8C008146	TXC002SB	18:36	03/08/11	1.000
ID8C008147	C414-01A	18:39	03/08/11	1.000
ID8C008148	C414-01	18:42	03/08/11	1.000
ID8C008149	C414-01J	18:45	03/08/11	5.000
ID8C008150	C414-01M	18:47	03/08/11	1.000
ID8C008151	C414-01S	18:50	03/08/11	1.000
ID8C008152	C419-01	18:53	03/08/11	1.000
ID8C008153	Blank	18:56	03/08/11	1.000
ID8C008154	CCV14	18:59	03/08/11	1.000
ID8C008155	CCB14	19:02	03/08/11	1.000
ID8C008156	B553-07W	19:05	03/08/11	1.000
ID8C008157	B553-07T	19:08	03/08/11	5.000
ID8C008158	Blank	19:10	03/08/11	1.000
ID8C008159	Blank	19:13	03/08/11	1.000
ID8C008160	Blank	19:16	03/08/11	1.000
ID8C008161	CCV15	19:19	03/08/11	1.000
ID8C008162	CCB15	19:22	03/08/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8C008 DATE : 03/08/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	97	104	100	104	99	100	102	97	94	100	101	97	106	95	94	99	100	98	103	100	106	98	93	98	100	98	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC0801	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC0802	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	100	----	----	----	----	----	----	96	----	----	----	95	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	100	103	106	107	101	111	95	94	94	95	108	94	95	114	94	92	103	100	105	106	109	112	100	84	99	98	98	105
CCV1	105	99	103	101	101	100	96	99	96	96	101	99	97	106	93	94	101	101	100	102	100	107	98	92	101	98	98	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC011WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC011WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	99	103	101	101	99	96	98	96	97	102	98	97	106	92	93	103	101	99	102	100	107	98	92	101	98	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	99	103	101	101	99	95	98	95	97	101	98	98	106	92	93	102	101	99	102	99	106	98	92	101	98	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	107	103	104	98	101	96	95	101	93	94	95	104	97	102	96	91	103	99	95	102	94	102	91	94	108	99	102	108
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-13W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-14W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-15W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C050-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	100	----	----	----	----	----	----	95	----	----	----	94	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB2	102	102	107	108	102	111	96	94	96	95	109	94	94	116	96	93	102	100	107	106	111	114	101	85	97	99	98	105
CCV5	107	100	106	101	102	101	100	99	99	96	103	100	96	107	95	95	101	100	100	105	102	108	99	95	99	98	99	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC013SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC013SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC013SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	108	100	107	103	103	102	101	99	100	96	105	100	96	109	95	96	100	100	102	106	103	109	101	96	98	99	99	106
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	107	100	106	102	103	102	101	99	100	97	105	99	97	109	95	96	100	101	102	106	104	109	101	96	98	99	98	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	109	100	107	102	103	102	103	100	101	96	105	101	97	107	96	96	100	100	100	106	104	108	100	98	97	99	99	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC001WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	109	99	105	103	103	102	99	99	100	97	106	99	97	109	95	96	101	101	103	104	104	110	101	94	98	99	98	105
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B280-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV10	109	100	105	103	102	101	98	97	97	98	106	97	98	109	92	94	103	102	100	105	102	108	101	94	99	99	97	104
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	109	100	106	103	103	101	99	98	99	97	106	99	97	109	94	95	102	101	102	105	103	109	100	95	98	99	98	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	108	101	105	102	102	100	97	97	96	97	104	98	97	107	92	93	103	102	100	105	101	107	99	93	100	99	98	104
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C708-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C069-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C069-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C002-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C026-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C026-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	100	----	----	----	----	----	----	92	----	----	----	92	----	----	92	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB3	101	102	105	110	101	113	92	92	93	96	111	92	95	116	93	91	104	101	108	105	111	115	102	82	98	99	97	104
CCV13	109	100	104	103	102	101	95	98	96	98	105	98	98	109	92	93	103	102	102	103	101	109	100	92	101	99	98	105
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C419-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	108	100	103	103	102	100	95	96	95	98	106	97	97	109	91	93	104	102	102	103	101	109	100	91	100	99	98	104
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	109	100	103	103	101	100	94	96	95	98	106	97	97	110	90	92	104	102	101	103	101	108	100	91	100	99	98	103
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C008 (SOIL) DATE : 03/08/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	24.8	1.33	-2.32	.390	.230	6.12	.420	-19.4	.480	.190	.590	2.88	.240	.610	10.6	.480	.820	.710	70.5	.340	.120	43.8	.070	1.35	-.220	.180	.390	-1.25
MRLC0801	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC0802	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	4.74	-2.78	-.110	-.090	54.6	-.840	----	-2.25	.690	1.89	----	2.39	5.71	----	9.84	-1.88	1.72	-30.3	1.36	.070	-14.9	-4.36	3.43	.950	6.03	2.11	-.710
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	36.6	.860	-2.45	-.080	.110	5.80	.200	-20.2	.230	.090	.220	11.3	.000	.760	13.8	.180	.630	.410	86.6	-.570	.170	57.4	.040	1.23	-.290	-.130	.290	-1.77
IPC011WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC011WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC011WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	12.4	.930	-1.39	.040	.100	6.18	.070	-4.58	.100	.040	.120	-1.07	-.140	.150	8.70	.200	.450	.400	86.4	.260	.060	103	.040	.750	.080	-.610	.280	-.950
C061-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	21.3	.770	-.220	.040	.150	5.88	.260	-12.2	.310	.110	.230	.510	.240	.620	8.14	.260	.650	.390	95.7	-1.24	.150	110	.090	.870	-.480	-.580	.350	-.970
C061-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	26.7	.790	-1.66	.880	.780	3.96	.390	30.4	.810	.040	1.11	4.45	-.560	1.55	29.8	1.35	.880	.810	100	-1.46	.230	79.1	.100	1.38	-.010	.280	.570	-.520
C061-13W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-14W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C061-15W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C050-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	5.85	-1.44	1.39	.090	50.6	-1.88	----	-1.22	-.780	1.47	----	1.61	5.72	----	5.86	-1.35	1.08	-51.3	-.860	.220	118	-1.55	4.17	1.63	4.52	2.15	1.34
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	60.8	1.06	-1.40	.380	260	5.38	.220	110	.460	.210	.390	19.8	.340	.530	21.9	.470	.720	.290	78.5	-.350	.260	92.5	.050	1.13	.190	-.050	.270	2.74
IPC013SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC013SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC013SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-20S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	26.5	.530	-2.80	-.060	.170	5.33	.120	1.22	.360	.050	.360	4.68	.610	1.06	5.24	.290	.560	.390	63.3	-1.55	.050	46.9	.000	.390	.080	-.380	.320	-.400
C066-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	63.6	1.80	-2.63	1.32	1.10	6.29	.590	76.7	1.24	.290	1.27	13.1	.130	.600	48.0	1.93	.990	.720	81.6	-.310	.340	63.3	.410	.660	-.030	.090	.940	2.44
C066-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	20.2	1.71	-1.83	-.030	.130	5.10	.140	-2.99	.100	.050	.210	2.66	.070	.710	11.4	.220	.570	.250	19.0	-.460	.140	12.4	.080	1.06	.120	-.270	.270	-.630
TXC001WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	17.7	.490	-.660	.090	.080	5.42	.070	18.7	.010	.080	.280	-2.73	.230	.940	-1.42	.180	.400	.110	104	-.850	.190	183	.060	.670	-.080	-.180	.290	.050
B280-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	35.8	.940	-.420	.210	.230	5.96	.270	22.9	.540	.120	.560	.820	-.160	.250	7.05	.480	.660	.570	99.9	.670	.100	168	.150	.720	-.040	-.150	.430	.340
B553-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-08H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	52.4	1.16	-.410	1.49	1.24	6.00	.440	48.3	.880	.270	1.23	8.55	.450	1.27	49.8	2.11	.920	.710	145	-.790	.230	216	.400	2.00	-.030	.180	.760	-.550
IPC012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C051-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	20.5	1.53	-1.71	.000	.170	5.54	.080	-3.53	.330	.040	.530	.100	.220	.750	6.17	.310	.540	.380	92.2	-.510	.100	127	.010	.900	-.140	-.670	.270	-.950
C708-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C069-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C069-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C002-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C026-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C026-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	----	5.04	-3.32	.800	-.080	66.6	-1.00	----	-1.21	-.550	1.64	----	2.75	6.42	----	5.58	-1.43	.900	439	2.03	.030	2414	-.890	4.14	.680	4.45	2.10	11.4
ICSAB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	13.0	.810	-2.03	-.210	.040	10.7	-.020	-18.6	-.030	-.010	.050	-.030	-.350	.790	12.1	.080	.450	.020	181	-.050	-.020	523	.110	.710	-.200	-.450	.160	-1.41
TXC002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C419-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	33.4	1.38	-1.17	.820	.540	6.97	.400	88.1	.510	.170	.790	3.78	.920	.600	25.0	1.02	.710	.530	173	-.100	.160	373	.210	.890	.010	.120	.560	2.59
B553-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	27.8	1.94	-1.65	.290	.140	6.31	.230	64.1	.310	.150	.840	.900	-.110	.670	-2.50	.390	.650	.420	98.2	.230	.090	201	.080	1.15	-.260	-.280	.490	2.17

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C008001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8C008002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8C008003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8C008004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8C008005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8C008006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8C008007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8C008008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8C008009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8C008010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8C008011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8C008012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8C008013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8C008014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8C008015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLC0801		ID8C008016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLC0802		ID8C008017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8C008018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8C008019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8C008020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8C008021			1	☒	3XIDL	None
22	26	2	2	3	QC	IPC011WB		ID8C008022			1	☒	1/2LOQ	None
23	27	2	3	3	QC	IPC011WL		ID8C008023			1	☒	LCS	None
24	28	2	4	3	QC	IPC011WC		ID8C008024			1	☒	LCS	None
25	29	2	5	3	Unk	C061-02A		ID8C008025			1	☒	unk	---
26	30	2	6	3	Unk	C061-02		ID8C008026			1	☒	unk	---
27	31	2	7	3	Unk	C061-02J		ID8C008027			1	☒	unk	---
28	32	2	8	3	Unk	C061-02M		ID8C008028			1	☒	unk	---
29	33	2	9	3	Unk	C061-02S		ID8C008029			1	☒	unk	---
30	34	2	10	3	Unk	C061-03		ID8C008030			1	☒	unk	---
31	35	2	11	3	Blank	Blank		ID8C008031			1	☐		---
32	36	2	12	3	QC	CCV2		ID8C008032			1	☒	CCV	None
33	37	2	1	4	QC	CCB2		ID8C008033			1	☒	3XIDL	None
34	38	2	2	4	Unk	C061-04		ID8C008034			1	☒	unk	---
35	39	2	3	4	Unk	C061-05		ID8C008035			1	☒	unk	---
36	40	2	4	4	Unk	C061-06		ID8C008036			1	☒	unk	---
37	41	2	5	4	Unk	C061-07		ID8C008037			1	☒	unk	---
38	42	2	6	4	Unk	C061-08		ID8C008038			1	☒	unk	---
39	43	2	7	4	Unk	C061-09		ID8C008039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	44	2	8	4	Unk	C061-10		ID8C008040			1	☒	unk	---
41	45	2	9	4	Unk	C061-11		ID8C008041			1	☒	unk	---
42	46	2	10	4	Unk	C061-12		ID8C008042			1	☒	unk	---
43	47	2	11	4	Blank	Blank		ID8C008043			1	☐		---
44	48	2	12	4	QC	CCV3		ID8C008044			1	☒	CCV	None
45	49	2	1	5	QC	CCB3		ID8C008045			1	☒	3XIDL	None
46	50	2	2	5	Unk	C061-13		ID8C008046			1	☒	unk	---
47	51	2	3	5	Unk	C061-14		ID8C008047			1	☒	unk	---
48	52	2	4	5	Unk	C061-15		ID8C008048			1	☒	unk	---
49	48	2	12	4	QC	CCV4		ID8C008049			1	☒	CCV	None
50	49	2	1	5	QC	CCB4		ID8C008050			1	☒	3XIDL	None
51	50	2	2	5	Unk	C061-13W		ID8C008051			1	☒	unk	---
52	51	2	3	5	Unk	C061-14W		ID8C008052			1	☒	unk	---
53	52	2	4	5	Unk	C061-15W		ID8C008053			1	☒	unk	---
54	53	2	5	5	Unk	C050-04		ID8C008054			1	☒	unk	---
55	54	2	6	5	Unk	C050-12		ID8C008055			1	☒	unk	---
56	55	2	7	5	Blank	Blank		ID8C008056			1	☐		---
57	56	2	8	5	QC	ICSA2		ID8C008057			1	☒	ICSA	None
58	57	2	9	5	QC	ICSAB2		ID8C008058			1	☒	ICSAB	None
59	58	2	10	5	QC	CCV5		ID8C008059			1	☒	CCV	None
60	59	2	11	5	QC	CCB5		ID8C008060			1	☒	3XIDL	None
61	60	2	12	5	QC	IPC013SB		ID8C008061			1	☒	1/2LOQ	None
62	61	3	1	1	QC	IPC013SL		ID8C008062			1	☒	LCS	None
63	62	3	2	1	QC	IPC013SC		ID8C008063			1	☒	LCS	None
64	63	3	3	1	Unk	C066-20A		ID8C008064			1	☒	unk	---
65	64	3	4	1	Unk	C066-20		ID8C008065			1	☒	unk	---
66	65	3	5	1	Unk	C066-20J		ID8C008066			1	☒	unk	---
67	66	3	6	1	Unk	C066-20M		ID8C008067			1	☒	unk	---
68	67	3	7	1	Unk	C066-20S		ID8C008068			1	☒	unk	---
69	80	3	8	2	Unk	C066-10		ID8C008069			1	☒	unk	---
70	69	3	9	1	Blank	Blank		ID8C008070			1	☐		---
71	70	3	10	1	QC	CCV6		ID8C008071			1	☒	CCV	None
72	71	3	11	1	QC	CCB6		ID8C008072			1	☒	3XIDL	None
73	68	3	8	1	Unk	C066-01		ID8C008073			1	☒	unk	---
74	72	3	12	1	Unk	C066-02		ID8C008074			1	☒	unk	---
75	73	3	1	2	Unk	C066-03		ID8C008075			1	☒	unk	---
76	74	3	2	2	Unk	C066-04		ID8C008076			1	☒	unk	---
77	75	3	3	2	Unk	C066-05		ID8C008077			1	☒	unk	---
78	76	3	4	2	Unk	C066-06		ID8C008078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	77	3	5	2	Unk	C066-07		ID8C008079			1	☒	unk	---
80	78	3	6	2	Unk	C066-08		ID8C008080			1	☒	unk	---
81	79	3	7	2	Unk	C066-09		ID8C008081			1	☒	unk	---
82	81	3	9	2	Blank	Blank		ID8C008082			1	☐		---
83	82	3	10	2	QC	CCV7		ID8C008083			1	☒	CCV	None
84	83	3	11	2	QC	CCB7		ID8C008084			1	☒	3XIDL	None
85	84	3	12	2	Unk	C066-11		ID8C008085			1	☒	unk	---
86	85	3	1	3	Unk	C066-12		ID8C008086			1	☒	unk	---
87	86	3	2	3	Unk	C066-13		ID8C008087			1	☒	unk	---
88	87	3	3	3	Unk	C066-14		ID8C008088			1	☒	unk	---
89	88	3	4	3	Unk	C066-15		ID8C008089			1	☒	unk	---
90	89	3	5	3	Unk	C066-16		ID8C008090			1	☒	unk	---
91	90	3	6	3	Unk	C066-17		ID8C008091			1	☒	unk	---
92	91	3	7	3	Unk	C066-18		ID8C008092			1	☒	unk	---
93	92	3	8	3	Unk	C066-19		ID8C008093			1	☒	unk	---
94	93	3	9	3	Blank	Blank		ID8C008094			1	☐		---
95	94	3	10	3	QC	CCV8		ID8C008095			1	☒	CCV	None
96	95	3	11	3	QC	CCB8		ID8C008096			1	☒	3XIDL	None
97	9	2	9	1	QC	TXC001WQ	TCLP	ID8C008097			1	☒	1/2LOQ	None
98	10	2	10	1	Unk	B553-08A	TCLP	ID8C008098			1	☒	unk	---
99	11	2	11	1	Unk	B553-08W	TCLP	ID8C008099			1	☒	unk	---
100	12	2	12	1	Unk	B553-08J	TCLP	ID8C008100			1	☒	unk	---
101	13	2	1	2	Unk	B553-08G	TCLP	ID8C008101			1	☒	unk	---
102	14	2	2	2	Unk	B553-08H	TCLP	ID8C008102			1	☒	unk	---
103	15	2	3	2	Blank	Blank		ID8C008103			1	☐		---
104	16	2	4	2	Blank	Blank		ID8C008104			1	☐		---
105	17	2	5	2	QC	CCV9		ID8C008105			1	☒	CCV	None
106	18	2	6	2	QC	CCB9		ID8C008106			1	☒	3XIDL	None
107	19	2	7	2	Unk	B280-01W	TCLP	ID8C008107			1	☒	unk	---
108	20	2	8	2	Unk	B553-07W	TCLP	ID8C008108			1	☒	unk	---
109	21	2	9	2	Unk	C066-03T	10X	ID8C008109			1	☒	unk	---
110	22	2	10	2	Blank	Blank		ID8C008110			1	☐		---
111	23	2	11	2	Blank	Blank		ID8C008111			1	☐		---
112	24	2	12	2	QC	CCV10		ID8C008112			1	☒	CCV	None
113	25	2	1	3	QC	CCB10		ID8C008113			1	☒	3XIDL	None
114	96	3	12	3	Unk	B553-08A	5X TCLP	ID8C008114			1	☒	unk	---
115	97	3	1	4	Unk	B553-08T	5X TCLP	ID8C008115			1	☒	unk	---
116	98	3	2	4	Unk	B553-08J	25X TCLP	ID8C008116			1	☒	unk	---
117	99	3	3	4	Unk	B553-08G	5X TCLP	ID8C008117			1	☒	unk	---

7016

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	100	3	4	4	Unk	B553-08H	5X TCLP	ID8C008118			1	☒	unk	—
119	101	3	5	4	Blank	Blank		ID8C008119			1	☐		—
120	102	3	6	4	QC	CCV11		ID8C008120			1	☒	CCV	None
121	103	3	7	4	QC	CCB11		ID8C008121			1	☒	3XIDL	None
122	104	3	8	4	QC	IPC012WB		ID8C008122			1	☒	1/2LOQ	None
123	105	3	9	4	QC	IPC012WL		ID8C008123			1	☒	LCS	None
124	106	3	10	4	QC	IPC012WC		ID8C008124			1	☒	LCS	None
125	107	3	11	4	Unk	C051-02A		ID8C008125			1	☒	unk	---
126	108	3	12	4	Unk	C051-02		ID8C008126			1	☒	unk	---
127	109	3	1	5	Unk	C051-02J		ID8C008127			1	☒	unk	---
128	110	3	2	5	Unk	C051-02M		ID8C008128			1	☒	unk	---
129	111	3	3	5	Unk	C051-02S		ID8C008129			1	☒	unk	---
130	112	3	4	5	Unk	C051-01		ID8C008130			1	☒	unk	---
131	113	3	5	5	Blank	Blank		ID8C008131			1	☐		---
132	114	3	6	5	QC	CCV12		ID8C008132			1	☒	CCV	None
133	115	3	7	5	QC	CCB12		ID8C008133			1	☒	3XIDL	None
134	116	3	8	5	Unk	C708-01		ID8C008134			1	☒	unk	---
135	117	3	9	5	Unk	C069-02		ID8C008135			1	☒	unk	---
136	118	3	10	5	Unk	C069-03		ID8C008136			1	☒	unk	---
137	119	3	11	5	Unk	C002-02		ID8C008137			1	☒	unk	—
138	120	3	12	5	Unk	C026-02		ID8C008138			1	☒	unk	---
139	121	4	1	1	Unk	C026-03		ID8C008139			1	☒	unk	---
140	122	4	2	1	Unk	B569-01		ID8C008140			1	☒	unk	—
141	123	4	3	1	Blank	Blank		ID8C008141			1	☐		—
142	124	4	4	1	QC	ICSA3		ID8C008142			1	☒	ICSA	None
143	125	4	5	1	QC	ICSAB3		ID8C008143			1	☒	ICSAB	None
144	126	4	6	1	QC	CCV13		ID8C008144			1	☒	CCV	None
145	127	4	7	1	QC	CCB13		ID8C008145			1	☒	3XIDL	None
146	128	4	8	1	QC	TXC002SB	TCLP NO15	ID8C008146			1	☒	1/2LOQ	None
147	129	4	9	1	Unk	C414-01A	TCLP	ID8C008147			1	☒	unk	—
148	130	4	10	1	Unk	C414-01	TCLP	ID8C008148			1	☒	unk	---
149	131	4	11	1	Unk	C414-01J	TCLP	ID8C008149			1	☒	unk	---
150	132	4	12	1	Unk	C414-01M	TCLP	ID8C008150			1	☒	unk	---
151	133	4	1	2	Unk	C414-01S	TCLP	ID8C008151			1	☒	unk	—
152	134	4	2	2	Unk	C419-01	TCLP	ID8C008152			1	☒	unk	---
153	135	4	3	2	Blank	Blank		ID8C008153			1	☐		—
154	136	4	4	2	QC	CCV14		ID8C008154			1	☒	CCV	None
155	137	4	5	2	QC	CCB14		ID8C008155			1	☒	3XIDL	None
156	138	4	6	2	Unk	B553-07W	TCLP NO15	ID8C008156			1	☒	unk	—

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
157	139	4	7	2	Unk	B553-07T	5X TCLP	ID8C008157			1	☒	unk	---
158	140	4	8	2	Blank	Blank		ID8C008158			1	☐		—
159	141	4	9	2	Blank	Blank		ID8C008159			1	☐		—
160	142	4	10	2	Blank	Blank		ID8C008160			1	☐		—
161	143	4	11	2	QC	CCV15		ID8C008161			1	☒	CCV	None
162	144	4	12	2	QC	CCB15		ID8C008162			1	☒	3XIDL	None

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ID8C008 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00084	.00002	-.00001	.00038	.00010	.00017	-.00003	.00107	.00001	-.00095	Blank
2	S20					.88338		.12135				S20
3	S21					8.6163		1.1553				S21
4	S22				.45417						.15379	S22
5	S23				4.4713						1.5918	S23
6	S24						.09113					S24
7	S25						.94211					S25
8	S26	.24691							.92127	.13391		S26
9	S27	9.0590							8.5262	1.2979		S27
10	S28		.00573									S28
11	S29		.05562									S29
12	S30			.00132								S30
13	S31			.00524								S31
14	ICV	106.93	1.4545	1.0441	1.9941	1.5565	2.4806	1.9921	76.488	2.4240	.93798	ICV
15	ICB	.02481	.00133	-.00232	.00039	.00023*	.00612	.00042*	-.01943	.00048	.00019	ICB
16	MRLC0801	.21758	.09972	.00830	.00999	.01022	.01352*	.01020	1.0017	.01028	.00941	MRLC0801
17	MRLC0802	.21693	.04891*	.00862	.00474*	.00410*	.09706*	.00509*	.48586*	.00987	.00936	MRLC0802
18	ICSA1	399.84	.00474	-.00278	-.00011	-.00009	.05462	-.00084	480.59	-.00225	.00069	ICSA1
19	ICSAB1	400.67	1.0261	1.0640	.53704	.50526	.55645	.94647	468.59	.46936	.47615	ICSAB1
20	CCV1	105.26	1.4852	1.0276	2.0106	1.5212	2.4902	1.9237	74.471	2.4081	.96206	CCV1
21	CCB1	.03661	.00086	-.00245	-.00008	.00011	.00580	.00020	-.02025	.00023	.00009	CCB1
22	IPC011WB	.02384	.00008	-.00251	-.00043	-.00003	.00356	-.00001	-.02955	-.00004	.00001	IPC011WB
23	IPC011WL	5.5322	2.5072	.52770	.51016	.52891	.51039	.50993	50.661	.50396	.49619	IPC011WL
24	IPC011WC	5.4796	2.4584	.51663	.50422	.52052	.50555	.50113	49.838	.49579	.48778	IPC011WC
25	C061-02A	6.7968	2.5052	.54826	.68271	.51927	1.0282	.49228	113.95	.49344	.49694	C061-02A
26	C061-02	1.1301	.00086	.00293	.17478	.00009	.52871	.00016	67.703	.00203	.00315	C061-02
27	C061-02J	.21450	.00024	-.00037	.03443	-.00001	.10128	.00002	13.619	.00051	.00066	C061-02J
28	C061-02M	7.1341	2.5610	.55068	.68072	.51455	1.0447	.49571	116.10	.48972	.49405	C061-02M
29	C061-02S	7.3628	2.5460	.54599	.68279	.51863	1.0447	.49431	115.37	.49589	.49673	C061-02S
30	C061-03	.76388	.00209	.00491	.12791	.00005	.31205	.00004	59.240	.00176	.00055	C061-03
31	Blank	.00853	.00032	-.00058	.00002	.00003	.00205	.00005	.04758	-.00007	.00002	Blank
32	CCV2	104.85	1.4920	1.0304	2.0221	1.5224	2.4818	1.9140	73.355	2.3919	.97011	CCV2
33	CCB2	.01236	.00093	-.00139	.00004	.00010	.00618	.00007	-.00458	.00010	.00004	CCB2
34	C061-04	2.5192	.00070	.00045	.21590	.00011	.27526	.00005	65.991	.00410	.00210	C061-04
35	C061-05	17.759	.00097	.01909	.24495	.00104	.30706	.00041	100.87	.02551	.00600	C061-05
36	C061-06	.16399	-.00007	.00011	.08348	-.00006	.34262	.00007	38.271	.00091	.00261	C061-06
37	C061-07	2.3913	.00001	.00593	.11216	.00006	.31486	.00006	57.098	.00332	.00076	C061-07
38	C061-08	2.5551	.00021	.00281	.11361	.00007	.28670	.00006	60.147	.00434	.00124	C061-08
39	C061-09	2.1993	.00027	.00818	.12364	.00006	.34976	.00002	60.010	.00321	.00059	C061-09
40	C061-10	3.4993	-.00040	.00467	.13069	.00019	.30588	.00016	78.977	.00595	.00165	C061-10
41	C061-11	.78148	.00027	.00517	.14910	-.00002	.33856	.00002	61.423	.00167	.00046	C061-11
42	C061-12	.36684	-.00023	.01180	.14266	-.00004	.31021	.00010	89.203	.00103	.00015	C061-12
43	Blank	.00386	-.00032	-.00121	.00005	.00002	.00116	.00004	.05300	.00008	-.00003	Blank
44	CCV3	104.27	1.4887	1.0259	2.0134	1.5161	2.4707	1.9072	73.544	2.3867	.97071	CCV3
45	CCB3	.02132	.00077	-.00022	.00004	.00015	.00588	.00026	-.01219	.00031	.00011	CCB3
46	C061-13	.22994	.00051	.00576	.13715	.00012	.30542	.00029	85.081	.00102	.00000	C061-13
47	C061-14	.13455	.00048	.04841	.15241	.00000	.42748	.00001	37.711	.00073	.00084	C061-14
48	C061-15	11.068	.00276	.00844	.37007	.00052	.29428	.04052	64.583	.03224	.02170	C061-15
49	CCV4	107.04	1.5380	1.0446	1.9646	1.5217	2.4032	1.9066	76.036	2.3323	.94080	CCV4
50	CCB4	.02669	.00079	-.00166	.00088	.00078*	.00396	.00039	.03044	.00081	.00004	CCB4
51	C061-13W	.21231	.00082	.00466	.13466	.00004	.30512	.00009	88.806	.00074	-.00025	C061-13W
52	C061-14W	.12511	-.00058	.04696	.14782	-.00006	.41889	-.00004	38.426	.00059	.00079	C061-14W
53	C061-15W	11.066	.00263	.00592	.35705	.00048	.29119	.04119	65.630	.03211	.02087	C061-15W
54	C050-04	.01272	-.00029	-.00131	-.00016	-.00003	.00219	-.00005	-.01278	-.00001	.00000	C050-04

55	C050-12	.01349	-.00020	-.00109	-.00027	-.00003	.00163	-.00005	-.01658	.00002	-.00009	C050-12
56	Blank	.00796	.00050	-.00084	-.00026	-.00005	.00009	-.00007	-.02975	-.00006	.00004	Blank
57	ICSA2	400.29	.00585	-.00144	.00139	-.00009	.05059	-.00188	473.85	-.00122	-.00078	ICSA2
58	ICSAB2	406.06	1.0164	1.0688	.54207	.51014	.55668	.96093	470.20	.47863	.47438	ICSAB2
59	CCV5	107.09	1.5016	1.0576	2.0243	1.5367	2.5212	1.9990	74.426	2.4675	.95747	CCV5
60	CCB5	.06080	.00106	-.00140	.00038	.00026*	.00538	.00022	.11025	.00046	.00021	CCB5
61	IPC013SB	.18500*	.00146	-.00268	.00031	.00031	.00594	-.00005	.12759	.00098	-.00003	IPC013SB
62	IPC013SL	5.2037	2.3611	.50016	.50055	.51380	.47215	.49638	49.716	.50232	.49261	IPC013SL
63	IPC013SC	5.2630	2.3773	.50622	.51108	.52391	.47619	.50371	50.629	.50862	.50161	IPC013SC
64	C066-20A	123.42	2.3270	.60339	1.5727	.52503	.53552	.48839	62.643	.73912	.54188	C066-20A
65	C066-20	120.06	.01322	.10281	1.0975	.00799	.08767	-.00296	13.394	.24798	.04743	C066-20
66	C066-20J	25.004	.00305	.01941	.21832	.00156	.01519	-.00093	2.7057	.05033	.00925	C066-20J
67	C066-20M	171.65	1.9036	.62965	1.9250	.52712	.50899	.48561	65.557	.82548	.54939	C066-20M
68	C066-20S	166.25	1.8320	.65768	1.9731	.52863	.50354	.48705	66.342	.88222	.54625	C066-20S
69	C066-10	75.098	.01215	.04445	1.1050	.00615	.04554	.16735	33.685	.10386	.04839	C066-10
70	Blank	.07538	.00054	-.00096	.00024	.00002	.00023	.00011	.02798	.00023	.00017	Blank
71	CCV6	107.53	1.4984	1.0679	2.0521	1.5499	2.5459	2.0273	74.150	2.5022	.96341	CCV6
72	CCB6	.02653	.00053	-.00280	-.00006	.00017	.00533	.00012	.00122	.00036	.00005	CCB6
73	C066-01	79.350	.00981	.06483	1.0707	.00824	.06997	.10597	39.156	.12485	.04229	C066-01
74	C066-02	110.03	.00652	.05883	1.3377	.00902	.04756	.05012	43.052	.15805	.04015	C066-02
75	C066-03	89.592	.01655	.08705	1.2612	.00881	.06794	.25196	68.602	.17914	.11278	C066-03
76	C066-04	87.651	.02103	.10534	1.0865	.00990	.06246	.52015	88.448	.17337	.15209	C066-04
77	C066-05	80.037	.00711	.06705	.89163	.00683	.04751	.00347	19.957	.19789	.04469	C066-05
78	C066-06	117.81	.01255	.18645	2.6213	.01493	.08445	-.00219	22.224	.43585	.52701	C066-06
79	C066-07	95.871	.00663	.06745	1.2999	.00774	.04273	-.00197	20.596	.17542	.22587	C066-07
80	C066-08	60.500	.02816	.15850	1.4491	.00898	.07390	.70139	110.52	.16812	.10907	C066-08
81	C066-09	73.072	.02088	.11531	.84194	.00793	.07448	.36643	57.420	.26637	.07718	C066-09
82	Blank	.05659	-.00007	-.00266	.00012	-.00002	-.00079	-.00001	.00506	.00010	-.00002	Blank
83	CCV7	107.05	1.4971	1.0607	2.0446	1.5512	2.5466	2.0178	74.095	2.4953	.96577	CCV7
84	CCB7	.06358	.00180	-.00263	.00132	.00110*	.00629	.00059*	.07669	.00124*	.00029	CCB7
85	C066-11	129.30	.00704	.06356	1.8723	.00932	.05056	.01434	38.594	.21645	.06011	C066-11
86	C066-12	97.987	.01541	.11646	1.0657	.01316	.11391	.00704	13.177	.43060	.17429	C066-12
87	C066-13	104.81	.00970	.09476	1.1125	.00845	.07936	.00179	15.618	.34768	.11332	C066-13
88	C066-14	73.804	.00884	.08322	.80715	.00623	.06043	.00162	12.884	.24217	.04800	C066-14
89	C066-15	134.07	.02263	.18534	1.1879	.01089	.15122	-.00172	16.620	.53288	.08225	C066-15
90	C066-16	74.403	.00812	.07797	.87821	.00634	.05663	-.00056	12.684	22312	.05929	C066-16
91	C066-17	80.812	.00756	.07762	1.0157	.00682	.05490	-.00048	13.371	.17320	.05429	C066-17
92	C066-18	108.69	.01151	.10465	.99941	.00824	.07629	-.00319	9.3017	.25215	.04714	C066-18
93	C066-19	103.06	.01111	.11571	1.1558	.00836	.07362	.00318	16.253	.33565	.05050	C066-19
94	Blank	.05491	-.00007	-.00054	.00004	-.00003	-.00113	-.00009	-.01641	.00011	.00002	Blank
95	CCV8	108.73	1.5045	1.0711	2.0413	1.5520	2.5435	2.0634	74.638	2.5243	.95909	CCV8
96	CCB8	.02024	.00171	-.00183	-.00003	.00013	.00510	.00014	-.00299	.00010	.00005	CCB8
97	TXC001WQ	.04556	-.00039	-.00206	-.00010	.00010	.00454	-.00001	-.01293	.00026	.00010	TXC001WQ
98	B553-08A	5.6402	2.5374	.61497	1.3165	.52879	.59220	.54579	57.199	.53158	.50181	B553-08A
99	B553-08W	.11297	.02160	-.00216	.80892	.00005	.07024	-.00003	7.8136	.00125	.00010	B553-08W
100	B553-08J	.03512	.00330	-.00318	.16443	.00000	.01469	-.00006	1.5741	.00024	-.00004	B553-08J
101	B553-08G	5.6741	2.6548	.63688	1.6225	.53161	.63101	.54961	58.031	.53931	.51072	B553-08G
102	B553-08H	5.5866	2.6112	.62675	1.5993	.52722	.61598	.54166	57.536	.53306	.50550	B553-08H
103	Blank	.01815	.00391	-.00197	.00073	.00028	.00219	.00003	.07161	.00019	.00020	Blank
104	Blank	.01264	.00125	-.00165	.00037	.00007	.00072	.00002	.07007	.00002	.00004	Blank
105	CCV9	108.72	1.4863	1.0508	2.0618	1.5517	2.5424	1.9768	74.224	2.4876	.96606	CCV9
106	CCB9	.01774	.00049	-.00066	.00009	.00008	.00542	.00007	.01868	.00001	.00008	CCB9
107	B280-01W	.06661	.00294	-.00313	.22191	-.00002	.07171	-.00014	1.1346	.01481	-.00018	B280-01W
108	B553-07W	.08870	.00236	-.00144	.36695	.00001	.24036	.00135	6.1496	.00201	.00065	B553-07W
109	C066-03T	9.6504	.00190	.00738	.12820	.00086	.00694	.02635	6.9815	.01821	.01083	C066-03T
110	Blank	.01512	.00072	-.00136	-.00003	-.00001	.00001	.00000	.04285	-.00003	.00004	Blank
111	Blank	.01254	.00042	-.00225	-.00006	.00002	-.00018	-.00001	.04135	.00006	-.00004	Blank

112	CCV10	108.54	1.5071	1.0541	2.0614	1.5333	2.5142	1.9591	72.432	2.4290	.97703	CCV10
113	CCB10	.03580	.00094	-.00042	.00021	.00023*	.00596	.00027	.02286	.00054	.00012	CCB10
114	B553-08A	5.5280	2.4427	.54946	.67446	.52280	.53336	.52055	50.950	.51301	.50012	B553-08A
115	B553-08T	.03443	.00231	-.00218	.16460	.00006	.01459	-.00001	1.5698	.00027	-.00001	B553-08T
116	B553-08J	.02077	.00088	-.00154	.03221	.00003	.00398	-.00006	.31610	.00008	-.00005	B553-08J
117	B553-08G	1.1426	.49250	.11120	.31963	.10584	.12038	.10775	11.434	.10523	.09992	B553-08G
118	B553-08H	1.1369	.49732	.11043	.32023	.10627	.12034	.10838	11.537	.10557	.10054	B553-08H
119	Blank	.01711	.00172	-.0026B	.00008	.00005	.00076	.00003	.05177	.00012	.00007	Blank
120	CCV11	108.90	1.5057	1.0600	2.0611	1.5420	2.5326	1.9727	73.306	2.4666	.96917	CCV11
121	CCB11	.05237	.00116	-.00041	.00149	.00124*	.00600	.00044*	.04831	.00088	.00027	CCB11
122	IPC012WB	.02537	.00018	-.00103	-.00008	.00018	.00263	.00000	-.02719	.00018	.00018	IPC012W8
123	IPC012WL	5.6296	2.5109	.53504	.51240	.52350	.51102	.51416	49.074	.50124	.49307	IPC012WL
124	IPC012WC	5.5445	2.4631	.52206	.50981	.51672	.50933	.49910	48.407	.49388	.48540	IPC012WC
125	C051-02A	5.7094	2.4200	.52888	.55493	.52495	.53671	.49701	64.138	.50056	.49308	C051-02A
126	C051-02	.02847	.00281	-.00175	.03786	.00003	.02685	.00004	16.111	.00305	.00055	C051-02
127	C051-02J	.01260	.00073	-.00060	.00769	.00000	.00524	.00001	3.2573	.00057	.00018	C051-02J
128	C051-02M	5.6845	2.4964	.53104	.554B5	.52452	.54015	.49589	65.115	.49745	.49238	C051-02M
129	C051-02S	5.6864	2.5274	.53429	.55190	.52250	.53939	.49914	64.576	.49537	.49266	C051-02S
130	C051-01	.02195	.00219	-.00179	.05786	.00006	.03070	.00009	22.763	.00236	-.00016	C051-01
131	Blank	.01972	-.00005	-.00113	.00062	.00005	.00029	.00009	.15632	.00011	-.00001	Blank
132	CCV12	108.24	1.5103	1.0492	2.0417	1.5255	2.4933	1.9377	72.697	2.4021	.97079	CCV12
133	CCB12	.02049	.00153	-.00171	.00000	.00017	.00554	.00008	-.00353	.00033	.00004	CCB12
134	C708-01	.40286	.00056	.00839	.32336	.00011	1.5231	-.00015	330.13	.00175	-.00027	C708-01
135	C069-02	12.651	.00117	.01742	.25146	.00071	.29175	.00026	68.953	.01740	.00433	C069-02
136	C069-03	.09651	.00001	-.00048	.10645	-.00005	.29254	.00120	65.684	.00072	.00091	C069-03
137	C002-02	.04932	-.00012	.00113	.30647	-.00006	.10756	.00067	108.67	.06599	.00014	C002-02
138	C026-02	.02367	-.00027	.00136	.08794	-.00006	.05667	.00001	60.056	.01275	-.00040	C026-02
139	C026-03	.02021	.00050	.00198	.08456	-.00007	.05744	-.00003	61.393	.01198	-.00033	C026-03
140	B569-01	15.666	.01506	-.00154	.10783	-.00009	26.565*	.66930	330.22	.59453	-.00016	B569-01
141	Blank	.00776	-.00001	-.00134	-.00036	-.00006	.05274	.00013	.02649	.00016	.00010	Blank
142	ICSA3	401.79	.00504	-.00332	.00080	-.00008	.06658	-.00100	461.03	-.00121	-.00055	ICSA3
143	ICSAB3	405.29	1.0153	1.0536	.54855	.50491	.56309	.92370	460.36	.46553	.48171	ICSAB3
144	CCV13	108.66	1.4981	1.0369	2.0606	1.5286	2.5196	1.9053	73.125	2.4056	.97846	CCV13
145	CCB13	.01304	.00081	-.00203	-.00021	.00004	.01074*	-.00002	-.01856	-.00003	-.00001	CCB13
146	TXC002SB	4977.4*	166.70*	-312.26*	5.4126*	.17157*	1998.0*	-21.462*	152.35*	13.346*	-.21941	TXC002SB
147	C414-01A	-76.801*	-2.7825*	5.3478	1044.3*	.49954	-272.79*	.24570	1100600.*	-.45778*	-2.6413*	C414-01A
148	C414-01	-72.157*	-1.8090*	4.1284	3751.7*	.89721	-257.90*	.22236	3898900.*	-.38967*	-5.3606*	C414 01
149	C414-01J	-153.93*	-7.4167*	10.156	554.39*	1.9481	-146.09*	.71280	574910.*	-.56349*	3.1254	C414-01J
150	C414-01M	-3539.8*	-1563.0*	-331.64*	-67171.*	-57116.*	-504.81*	-289.78*	-16e6*	-294.41*	-723.44*	C414-01M
151	C414-01S	-3461.2*	-1521.3*	-324.51*	20561.*	17440.*	-490.85*	-285.12*	4687400.*	-285.40*	-892.47*	C414-01S
152	C419-01	-382.52*	-113.03*	18.940	11130.*	4.4192	-895.35*	-20.161*	206640.*	-3.0264*	-14.737*	C419-01
153	Blank	.00219	-.00002	-.00226	-.00040	-.00001	.00276	-.00006	-.04503	-.00014	.00007	Blank
154	CCV14	108.29	1.4982	1.0346	2.0627	1.5266	2.5004	1.8903	72.324	2.3734	.97817	CCV14
155	CCB14	.03338	.00138	-.00117	.00082	.00054*	.00697	.00040	.08815	.00051	.00017	CCB14
156	B553-07W	-820.60*	-30.920*	25.147*	1717.8*	.53039	-1373.4*	-6.6793*	28545.*	-12.480*	8.1935	B553-07W
157	B553-07T	.02683	.00069	-.00104	.06591	-.00006	.04474	.00020	1.0619	.00027	.00011	B553-07T
158	Blank	.01098	.00119	-.00091	-.00029	.00001	.00368	-.00003	-.02384	.00003	.00015	Blank
159	Blank	.00607	.00052	-.00140	-.00045	-.00007	.00230	-.00004	-.04969	-.00017	.00007	Blank
160	Blank	.00320	.00074	-.00105	-.00049	-.00006	.00163	-.00008	-.03620	-.00009	.00002	Blank
161	CCV15	108.95	1.4942	1.0303	2.0647	1.5196	2.4971	1.8751	71.768	2.3636	.97B08	CCV15
162	CCB15	.02777	.00194	-.00165	.00029	.00014	.00631	.00023	.06413	.00031	.00015	CCB15
NDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00141	.00003	.00004	-.00003	.00001	.00002	-.00001	-.00050	-.00027	.00000	Blank
2	S20			.19895			.11039					S20
3	S21			1.9696			1.1012					S21
4	S22	.30682	.05969									S22
5	S23	2.9593	2.2476									S23
6	S24							.76521				S24
7	S25							7.6477				S25
8	S26								.76282	.29867		S26
9	S27								7.2724	3.0307		S27
10	S28					.11233						S28
11	S29					.45362						S29
12	S30				.02638						.00146	S30
13	S31				.13066						.00570	S31
14	ICV	2.5096	25.350	2.4327	.52831	57.229	2.3434	2.4700	2.5062	58.908	1.0274	ICV
15	ICB	.00059	.00288	.00024	.00061	.01062	.00048	.00082*	.00071	.07048	.00034	ICB
16	MRLC0801	.01045	.21424	.01017	.01187	.95427	.00978	.01036	.01050	.97409	.00799*	MRLC0B01
17	MRLC0802	.01030	.10383*	.00279*	.10019*	.18812*	.00478*	.00949	.01029	.94198	.00914	MRLC0802
18	ICSA1	.00189	190.56	.00239	.00571	190.07	.00984	-.00188	.00172	-.03030	.00136	ICSA1
19	ICSA81	.53829	187.52	.95023	1.1415	188.64	.45955	1.0311	1.0027	79.076	1.0561	ICSAB1
20	CCV1	2.5289	24.822	2.4283	.53043	56.049	2.3455	2.5366	2.5164	59.787	1.0186	CCV1
21	CCB1	.00022	.01130	.00000	.00076	.01382	.00018	.00063	.00041	.08658	-.00057	CCB1
22	IPC011W8	.0000B	.00590	.00007	.00033	.00846	.00010	.00007	.00026	.02812	-.00016	IPC011WB
23	IPC011WL	.52833	5.2972	.50945	.00119*	47.407	.48931	.51853	.46624	49.303	.52340	IPC011WL
24	IPC011WC	.52220	5.2004	.50090	.00087*	46.704	.48309	.50928	.45763	49.097	.51724	IPC011WC
25	C061-02A	.54257	6.2519	.50161	.20849	171.78	1.0586	.52471	.47685	80.758	.53301	C061-02A
26	C061-02	.00595	1.1134	.00198	.20810	126.56	.59802	.00795	.00891	29.499	.00001	C061-02
27	C061-02J	.00102	.22209	-.00007	.03882	24.800	.12004	.00157	.00179	5.6034	-.00226	C061-02J
28	C061-02M	.53839	6.3547	.50000	.21127	174.66	1.0684	.53243	.46485	80.087	.53892	C061-02M
29	C061-02S	.54097	6.5232	.50230	.21017	173.30	1.0687	.53313	.46686	80.860	.53568	C061-02S
30	C061-03	.01733	.82522	.00181	.10231	82.275	.04874	.00533	.00474	22.817	-.00091	C061-03
31	Blank	.00022	-.00230	-.00010	.00006	.01505	.00016	.00005	.00031	.12981	-.00071	Blank
32	CCV2	2.5501	24.566	2.4320	.53211	55.359	2.3315	2.5633	2.5355	59.498	1.0248	CCV2
33	CCB2	.00012	-.00107	-.00014	.00015	.00870	.00020	.00045	.00040	.08642	.00026	CCB2
34	C061-04	.00664	2.5068	.00313	.14664	112.68	.60212	.00914	.00788	20.579	.00003	C061-04
35	C061-05	.04060	19.957	.02140	.16089	97.306	.85001	.00743	.02442	18.462	-.00092	C061-05
36	C061-06	.00257	.17357	.00134	.13728	65.496	.83747	.01050	.00464	17.569	-.00103	C061-06
37	C061-07	.00835	2.2126	.00337	.08989	77.108	.11320	.00480	.00446	17.712	-.00094	C061-07
38	C061-08	.00802	3.0114	.00288	.11421	75.928	.22723	.00555	.00534	16.218	-.00083	C061-08
39	C061-09	.00764	2.2624	.00354	.10211	89.361	.07226	.00537	.00426	19.806	-.00096	C061-09
40	C061-10	.01120	3.9033	.00522	.12037	82.880	.28903	.00522	.00669	17.478	-.00093	C061-10
41	C061-11	.02115	.88695	.00279	.11296	90.152	.19471	.00585	.00631	22.276	-.00178	C061-11
42	C061-12	.00889	.54110	.00128	.11317	85.293	.04699	.00630	.00460	22.387	-.00127	C061-12
43	Blank	.00009	-.00126	-.00011	.00052	.01030	.00023	.00006	.00005	.08285	-.00069	Blank
44	CCV3	2.5300	24.526	2.4382	.53032	55.381	2.3275	2.5620	2.5322	59.430	1.0176	CCV3
45	CCB3	.00023	.00051	.00024	.00062	.00814	.00026	.00065	.00039	.09569	-.00124	CCB3
46	C061-13	.00827	.25001	.00048	.11079	83.263	.02966	.00671	.00448	22.150	-.00067	C061-13
47	C061-14	.00185	.28635	.00007	.13809	88.802	.36996	.01874	.00322	16.317	-.00017	C061-14
48	C061-15	.04597	17.205	.03390	.16179	84.863	4.4766	.00520	.04418	16.745	.00008	C061-15
49	CCV4	2.3784	25.933	2.4173	.50897	57.389	2.2733	2.5690	2.4735	57.049	1.0230	CCV4
50	CCB4	.00111*	.00445	-.00056	.00155	.02979	.00135	.00088*	.00081	.10007	-.00146	CCB4
51	C061-13W	.00813	.25776	.00071	.10799	86.327	.02946	.00663	.00429	21.542	-.00228	C061-13W
52	C061-14W	.00178	.29029	.00009	.13319	90.265	.36399	.01805	.00300	15.847	-.00169	C061-14W
53	C061-15W	.04360	17.539	.03303	.15652	85.934	4.3977	.00491	.04290	16.406	-.00046	C061-15W
54	C050-04	.00010	.00555	.00003	.00103	.02760	.00093	-.00002	.00014	.08657	-.00116	C050-04

55	C050-12	.00009	.00326	-.00043	.00032	.01408	.00013	.00004	.00008	.03834	-.00187	C050-12
56	Blank	.00015	-.00155	.00000	.00017	.00351	.00002	-.00007	.00024	.03255	-.00042	Blank
57	ICSA2	.00147	188.49	.00161	.00572	189.17	.00586	-.00135	.00108	-.05133	-.00086	ICSA2
58	ICSAB2	.54657	188.67	.94217	1.1574	191.06	.46451	1.0197	.99784	80.592	1.0620	ICSAB2
59	CCV5	2.5765	25.111	2.4123	.53640	56.778	2.3700	2.5125	2.5036	60.266	1.0456	CCV5
60	CCB5	.00039	.01984	.00034	.00053	.02188	.00047	.00072	.00029	.07853	-.00035	CCB5
61	IPC013SB	.00045	.06599	-.00046	.00110	.07756	.00081	.00040	.00030	.08461	.00067	IPC013SB
62	IPC013SL	.51716	5.1058	.49169	.00027*	46.807	.48353	.52543	.46026	49.157	.49308	IPC013SL
63	IPC013SC	.52492	5.1796	.49921	.00119*	47.662	.49199	.53273	.46688	50.347	.49612	IPC013SC
64	C066-20A	.58630	255.66	.65022	.04928	54.141	1.7247	.52725	.52729	55.553	.49862	C066-20A
65	C066-20	.05610	262.74	.16837	.04789	7.3562	1.3072	.01197	.05978	5.6523	.00631	C066-20
66	C066-20J	.01103	54.379	.03368	.00999	1.4963	.26591	.00223	.01163	1.1128	.00111	C066-20J
67	C066-20M	.60841	312.22	.70189	.07185	56.916	2.5113	.51820	.53116	56.908	.49439	C066-20M
68	C066-20S	.61691	330.02	.69102	.06621	56.290	1.9986	.51777	.53461	56.875	.49975	C066-20S
69	C066-10	.11748	96.377	1.7929	.03353	8.0065	4.1317	.00263	.06347	4.8601	.00407	C066-10
70	Blank	.00000	.12743	.00068	.00038	.01041	.00103	.00017	.00023	.03168	-.00005	Blank
71	CCV6	2.6307	24.924	2.4119	.54424	56.861	2.4048	2.5097	2.5107	61.121	1.0582	CCV6
72	CCB6	.00036	.00468	.00061	.00106	.00524	.00029	.00056	.00039	.06329	-.00155	CCB6
73	C066-01	.18459	123.37	.77677	.03809	9.8136	3.2594	.00372	.09353	6.1816	.00582	C066-01
74	C066-02	.11091	136.68	.51396	.05142	11.754	3.3124	.00316	.08562	6.4361	.00742	C066-02
75	C066-03	.36604	166.59	1.1977	.04549	13.758	6.0494	.00614	.12579	7.9974	.00863	C066-03
76	C066-04	.66136	176.75	1.9101	.04746	21.680	6.9276	.00903	.16299	8.4177	.01494	C066-04
77	C066-05	.05908	157.93	.18632	.03541	5.5435	3.6841	.00629	.06376	5.3290	.00473	C066-05
78	C066-06	.08478	282.74	.48741	.05121	6.7657	25.788	.01215	.17736	6.1537	.00843	C066-06
79	C066-07	.05235	150.17	.23740	.04254	5.9130	11.746	.00591	.08953	5.3307	.00394	C066-07
80	C066-08	.64384	201.86	2.8081	.03190	49.428	6.5165	.01392	.17693	8.9720	.01388	C066-08
81	C066-09	.30599	193.08	1.3255	.03386	24.996	2.8851	.00993	.11838	6.5122	.00826	C066-09
82	Blank	-.00001	.12594	.00047	.00034	.01198	.00184	.00004	-.00010	-.00141	.00020	Blank
83	CCV7	2.6311	24.802	2.4162	.54357	56.797	2.4008	2.5123	2.5176	60.985	1.0552	CCV7
84	CCB7	.00127*	.01314	.00013	.00060	.04803	.00193*	.00099*	.00072	.08158	-.00031	CCB7
85	C066-11	.08656	147.17	.29355	.05331	11.749	6.1343	.00375	.08052	5.8010	.00435	C066-11
86	C066-12	.08824	384.07	.33179	.03489	5.6815	6.8659	.01343	.10995	5.8778	.00741	C066-12
87	C066-13	.06076	246.72	.21758	.04227	7.2021	4.2131	.01000	.07482	5.8055	.00699	C066-13
88	C066-14	.04721	200.89	.21403	.03029	4.8620	2.7579	.01002	.05666	4.6610	.00501	C066-14
89	C066-15	.07204	479.90*	.30470	.05195	8.3191	4.4488	.02090	.09204	6.2203	.00917	C066-15
90	C066-16	.05558	190.28	.21677	.03427	5.8526	3.4234	.00888	.06970	5.4680	.00340	C066-16
91	C066-17	.06087	185.67	.20091	.03682	6.4660	2.7484	.00779	.06525	5.8885	.00395	C066-17
92	C066-18	.06768	262.92	.17469	.04735	7.2798	1.9597	.01009	.06701	6.1193	.00598	C066-18
93	C066-19	.06870	254.11	.24285	.04146	6.3205	1.9093	.01303	.06814	5.8934	.00585	C066-19
94	Blank	-.00017	.12039	.00038	.00057	-.00243	.00031	.00001	.00007	-.00390	.00000	Blank
95	CCV8	2.6221	25.305	2.4127	.53616	57.655	2.4065	2.4886	2.5061	60.228	1.0616	CCV8
96	CCB8	.00021	.00266	.00007	.00071	.01137	.00022	.00057	.00025	.01901	-.00046	CCB8
97	TXC001WQ	.00057	.00409	.00033	.00067	.01865	.00027	.00018	.00024	.00774	-.00085	TXC001WQ
98	B553-08A	.59784	5.4279	.49930	.00357	47.820	.49718	.51548	.48001	56.963	.64110	B553-08A
99	B553-08W	.01930	.09801	.00072	.00512	.65533	.00446	.00103	.00253	2.4529	.00436	B553-08W
100	8553-08J	.00415	.01781	-.00002	.00211	.14056	.00097	.00017	.00040	.61099	.00047	B553-08J
101	B553-08G	.58910	5.4842	.50402	.00500	48.021	.50192	.54015	.47708	58.325	.67469	B553-08G
102	8553-08H	.57827	5.4189	.49958	.00575	47.788	.49868	.53384	.47280	57.552	.66807	B553-08H
103	Blank	.00058	-.00027	.00012	.00186	.03007	.00047	.00023	.00016	.29842	-.00085	Blank
104	Blank	.00023	-.00139	-.00009	.00085	.00457	.00022	.00007	.00006	.09564	.00035	Blank
105	CCV9	2.6526	24.855	2.4142	.54692	56.849	2.4038	2.5193	2.5202	61.665	1.0401	CCV9
106	CCB9	.00028	-.00273	.00023	.00094	-.00142	.00018	.00040	.00011	.10424	-.00085	CCB9
107	B280-01W	.00900	.00237	-.00034	.00351	.58801	.00004	.00231	.00112	2.0950	-.00064	B280-01W
108	B553-07W	.09016	12.755	.00883	.21698	1.6762	.23062	.00587	.01833	7.1097	.00494	8553-07W
109	C066-03T	.03746	17.588	.12060	.00561	1.4165	.62464	.00040	.01195	.93218	-.00024	C066-03T
110	Blank	.00007	.00305	-.00031	.00075	-.00051	.00045	.00005	.00001	.07308	.00017	Blank
111	Blank	-.00009	-.00198	.00054	.00044	.00337	.00003	.00006	.00012	.06833	-.00009	Blank

112	CCV10	2.6560	24.358	2.4386	.54464	55.240	2.3534	2.5635	2.5485	60.109	1.0538	CCV10
113	CCB10	.00056	.00082	-.00016	.00025	.00705	.00048	.00066	.00057	.09986	.00067	CCB10
114	B553-08A	.54661	5.2089	.50081	.00189	46.684	.48631	.51371	.47641	51.812	.56281	B553-08A
115	B553-08T	.00429	.01780	.00016	.00160	.13392	.00107	.00034	.00037	.49162	.00155	B553-08T
116	B553-08J	.00108	.00183	.00048	.00084	.03567	.00033	.00016	.00005	.16232	.00033	B553-08J
117	B553-08G	.11481	1.0837	.10008	.00105	9.3394	.09949	.10354	.09382	10.727	.11369	B553-08G
118	B553-08H	.11499	1.0794	.10128	.00163	9.4271	.10014	.10379	.09423	10.811	.11569	B553-08H
119	Blank	.00057	-.00483	-.00011	.00087	.01026	.00013	.00012	.00001	.09712	-.00112	Blank
120	CCV11	2.6530	24.768	2.4139	.54505	56.167	2.3728	2.5447	2.5303	60.964	1.0535	CCV11
121	CCB11	.00123*	.00855	.00045	.00127	.04982	.00211*	.00092*	.00071	.14471	-.00079	CCB11
122	IPC012WB	.00031	-.00031	-.00003	.00023	.01504	.00036	.00017	.00018	.05656	-.00085	IPC012WB
123	IPC012WL	.54263	5.1872	.50352	.00131*	46.296	.48414	.51447	.46210	49.373	.53434	IPC012WL
124	IPC012WC	.53720	5.1096	.49205	.00121*	45.645	.47745	.50883	.45513	49.776	.51886	IPC012WC
125	C051-02A	.54691	5.1540	.49951	.00212	55.171	.55281	.50942	.47118	52.252	.52895	C051-02A
126	C051-02	.00101	-.00068	.00072	.00129	9.3500	.07274	.00008	.00216	1.7387	.00071	C051-02
127	C051-02J	.00043	.00020	.00022	.00060	1.8970	.01463	.00006	.00034	.39256	-.00006	C051-02J
128	C051-02M	.54455	5.1714	.49702	.00195	55.753	.55370	.51785	.46172	52.873	.52594	C051-02M
129	C051-02S	.54283	5.1569	.49753	.00181	55.209	.54970	.52003	.46169	51.837	.53101	C051-02S
130	C051-01	.00096	.01603	.00018	.00171	11.975	.00139	.00012	.00203	2.1824	-.00006	C051-01
131	Blank	.00012	-.00171	.00012	.00077	.00069	.00020	.00017	.00022	.06144	-.00071	Blank
132	CCV12	2.6076	24.605	2.4276	.53700	55.326	2.3311	2.5645	2.5384	59.749	1.0496	CCV12
133	CCB12	.00053	.00010	.00022	.00075	.00617	.00031	.00054	.00038	.09221	-.00051	CCB12
134	C708-01	.00675	9.7145	.00191	.03151	110.45	2.1081	.00041	.00424	5.4132	.00002	C708-01
135	C069-02	.03337	14.495	.01310	.15279	87.337	.39571	.00600	.01757	17.665	.00146	C069-02
136	C069-03	.00808	2.3118	.00017	.10546	84.047	.30575	.01073	.00794	31.904	.00032	C069-03
137	C002-02	.00470	1.1660	.00180	.06911	71.776	.00985	.00416	.02010	10.148	.00082	C002-02
138	C026-02	.00080	.00150	.00020	.03240	11.367	.00018	.01844	.00004	2.2277	-.00112	C026-02
139	C026-03	.00078	.42646	.00094	.03328	11.694	.01227	.01891	.00084	2.2700	.00017	C026-03
140	B569-01	1.4293	6.5001	.04206	.49066	818.26	.31149	.06811	.29080	339.92	.01492	B569-01
141	Blank	.00042	-.00191	-.00014	.00102	.13468	.00007	.00004	.00016	1.3538	-.00060	Blank
142	ICSA3	.00164	184.07	.00275	.00642	183.86	.00558	-.00143	.00090	.43885	.00203	ICSA3
143	ICSAB3	.55670	183.85	.95220	1.1649	185.85	.45624	1.0432	1.0125	81.199	1.0506	ICSAB3
144	CCV13	2.6273	24.600	2.4411	.54486	55.246	2.3357	2.5808	2.5528	61.125	1.0338	CCV13
145	CCB13	.00005	-.00003	-.00035	.00079	.01206	.00008	.00045	.00002	.18139	-.00005	CCB13
146	TXC002SB	316.34*	289.77*	8.5335*	3.0907*	30.320*	.58691*	-.43878	1.9785*	743.25*	167.85*	TXC002SB
147	C414-01A	-31.646*	1.0953	-8.0837*	38.627	445000.*	3403.8*	-.82053*	-330.22*	344210.*	-2.9869*	C414-01A
148	C414-01	-30.344*	-1.1016*	-13.925*	127.27*	1582100.*	12055.*	-2.3175*	-648.15*	1228600.*	-6.3234*	C414-01
149	C414-01J	-25.587*	-2.5568*	.71779	38.428	231630.*	1791.4*	-.27883*	-245.86*	168590.*	-4.5480*	C414-01J
150	C414-01M	-430.32*	-3002.4*	-759.01*	-417.00*	-9432e3*	-85343.*	-898.81*	-948.30*	-9159e3*	-309.82*	C414-01M
151	C414-01S	-327.60*	-2932.9*	-876.11*	65.782*	2878700.*	25794.*	-923.67*	-998.18*	2754600.*	-344.87*	C414-01S
152	C419-01	-38.849*	-2151.7*	-15.754*	94.031*	73256.*	577.20*	-22.392*	-170.77*	83881.*	-9.6463*	C419-01
153	Blank	.00008	-.00460	.00012	.00045	-.00213	-.00016	.00005	.00002	.22290	-.00048	Blank
154	CCV14	2.6381	24.311	2.4359	.54669	54.644	2.3180	2.5886	2.5524	60.965	1.0318	CCV14
155	CCB14	.00079	.00378	.00092	.00060	.02503	.00102	.00071	.00053	.17344	-.00010	CCB14
156	B553-07W	-534.37*	-71695.*	140.44*	1004.1*	7661.2*	1050.5*	94.726*	295.27*	31974.*	-44.559*	B553-07W
157	B553-07T	.01616	2.2426	.00173	.03782	.30300	.04026	.00102	.00331	1.2418	.00136	B553-07T
158	Blank	.00030	-.00427	-.00039	.00074	.00076	.00020	.00012	.00010	.09350	-.00048	Blank
159	Blank	.00013	-.00387	.00023	.00010	.00213	-.00001	.00002	-.00005	.06299	.00029	Blank
160	Blank	-.00003	-.00640	-.00025	.00082	-.00324	-.00003	-.00001	-.00005	.04940	.00015	Blank
161	CCV15	2.6457	24.167	2.4355	.54765	54.075	2.3005	2.5897	2.5523	60.738	1.0263	CCV15
162	CCB15	.00084	.00090	-.00011	.00067	-.00250	.00039	.00065	.00042	.09821	.00023	CCB15
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00012	.00096	-.00011	-.00002	.00011	.00004	-.00015	.00199	Blank
2	S20									S20
3	S21									S21
4	S22							.14670		S22
5	S23							1.4682		S23
6	S24		1.0239							S24
7	S25		5.8790							S25
8	S26									S26
9	S27									S27
10	S28				.00629					S28
11	S29				.05913					S29
12	S30	.04053		.12446		.02699	.01593		.61386	S30
13	S31	.20015		.61359		.13197	.07933		5.9832	S31
14	ICV	.49992	63.798	.49068	2.3370	.49016	.49783	1.4693	2.6379	ICV
15	ICB	.00012	.04377	.00007	.00135	-.00022	.00018	.00039	-.00125	ICB
16	MRLC0801	.00999	1.0477	.01009	.01128	-.00021	.00980	.01022	.01948	MRLC0801
17	MRLC0802	.00986	.51925*	.00986	.01157	.00018	.00954	.00957	.00939*	MRLC0802
18	ICSA1	.00007	-.01489	-.00436	.00343	.00095	.00603	.00211	-.00071	ICSA1
19	ICSAB1	1.0917	84.118	.50017	.84446	.99181	.98104	.48920	1.0547	ICSAB1
20	CCV1	.49884	64.076	.49127	2.3002	.50405	.48920	1.4724	2.6508	CCV1
21	CCB1	.00017	.05738	.00004	.00123	-.00029	-.00013	.00029	-.00177	CCB1
22	IPC011WB	.00002	.02285	.00015	.00069	.00007	-.00019	.00022	.00069	IPC011WB
23	IPC011WL	.51445	53.015	.47790	.49837	.49889	.50969	.51001	.54539	IPC011WL
24	IPC011WC	.50738	52.675	.47372	.48899	.48843	.50213	.49949	.53569	IPC011WC
25	C061-02A	.51817	256.33	1.2582	.45592	.48910	.52358	.50945	.55768	C061-02A
26	C061-02	.00006	207.85	.80357	.00026	.00018	.02905	.00357	.01038	C061-02
27	C061-02J	-.00009	41.269	.15919	.00012	.00008	.00509	.00075	.00144	C061-02J
28	C061-02M	.53148	260.13	1.2753	.45940	.49534	.53331	.50399	.55566	C061-02M
29	C061-02S	.53619	259.80	1.2763	.45803	.49595	.54129	.50513	.55800	C061-02S
30	C061-03	-.00001	95.232	.56114	.00034	.00052	.02071	.00349	.03038	C061-03
31	Blank	.00002	.15451	.00016	.00035	-.00004	-.00048	.00023	.00079	Blank
32	CCV2	.49830	63.939	.49204	2.2966	.50420	.49083	1.4653	2.6330	CCV2
33	CCB2	.00006	.10311*	.00004	.00075	.00008	-.00061	.00028	-.00095	CCB2
34	C061-04	-.00005	137.48	.80921	.00018	.00027	.06514	.00520	.02410	C061-04
35	C061-05	.00012	145.48	.91709	.00026	.00204	.29880	.03356	.11578	C061-05
36	C061-06	-.00010	137.65	.55334	.00068	.00055	.00467	.00248	.00696	C061-06
37	C061-07	-.00012	96.740	.54725	.00056	.00030	.06158	.00434	.03090	C061-07
38	C061-08	-.00004	110.76	.62793	.00014	.00008	.06128	.00590	.02407	C061-08
39	C061-09	-.00011	103.73	.59107	.00032	.00039	.05117	.00409	.08426	C061-09
40	C061-10	-.00012	115.83	.67428	.00003	-.00006	.08410	.00810	.02779	C061-10
41	C061-11	.00000	112.34	.65240	-.00052	.00020	.02043	.00240	.03017	C061-11
42	C061-12	-.00009	128.13	.54671	.00032	.00005	.00985	.00119	.00929	C061-12
43	Blank	-.00014	.16990	.00009	.00048	-.00029	-.00052	.00028	.00079	Blank
44	CCV3	.49725	63.850	.49027	2.2963	.50622	.49035	1.4643	2.6331	CCV3
45	CCB3	.00015	.11033*	.00009	.00087	-.00048	-.00058	.00035	-.00097	CCB3
46	C061-13	.00000	127.37	.53629	-.00008	-.00003	.00635	.00093	.00927	C061-13
47	C061-14	-.00014	161.18	.53648	.00067	.00053	.00319	.00189	.08857	C061-14
48	C061-15	.00057	110.34	.74247	-.00098	.00315	.18162	.02555	.24886	C061-15
49	CCV4	.47188	61.201	.45604	2.3405	.53818	.49618	1.5312	2.7092	CCV4
50	CCB4	.00023	.07912	.00010	.00138	-.00001	.00028	.00057	-.00052	CCB4
51	C061-13W	.00010	124.74	.51486	.00067	.00025	.00605	.00067	.00856	C061-13W
52	C061-14W	-.00007	156.90	.51368	.00030	.00001	.00422	.00175	.00502	C061-14W
53	C061-15W	.00050	107.70	.71228	-.00029	.00357	.18746	.02575	.23821	C061-15W
54	C050-04	-.00005	.19871	.00031	.00041	-.00022	-.00012	.00012	.00115	C050 04

55	C050-12	.00000	.11602	.00013	.00066	-.00007	-.00050	.00001	.00209	C050-12
56	Blank	-.00007	.04100	.00011	.00022	-.00032	-.00014	.00004	-.00027	Blank
57	ICSA2	.00022	.11806	-.00155	.00417	.00163	.00452	.00215	.00134	ICSA2
58	ICSAB2	1.1097	85.368	.50517	.85270	.97373	.98611	.49172	1.0503	ICSAB2
59	CCV5	.50840	64.567	.49449	2.3853	.49663	.49212	1.4831	2.6550	CCV5
60	CCB5	.00026	.09251	.00005	.00113	.00019	-.00005	.00027	.00274	CCB5
61	IPC013SB	.00006	.08628	.00104	-.00002	.04151	.00020	.00044	.01185*	IPC013SB
62	IPC013SL	.49107	52.718	.47733	.47148	.52533	.50134	.49998	.55022	IPC013SL
63	IPC013SC	.49811	53.947	.48398	.47816	.53071	.50835	.50917	.55891	IPC013SC
64	C066-20A	.48653	53.744	.55962	.45860	.52105	1.6605	.88781	.96174	C066-20A
65	C066-20	-.00022	.35005	.08321	.00443	.04991	1.2081	.40793	.43241	C066-20
66	C066-20J	-.00005	.07213	.01651	.00140	.00947	.23866	.08159	.08410	C066-20J
67	C066-20M	.50887	54.279	.58836	.45420	.51591	1.9030	1.0094	1.0613	C066-20M
68	C066-20S	.51322	54.802	.59104	.45326	.51464	1.9391	1.0588	1.0889	C066-20S
69	C066-10	-.00042	.53378	.09709	-.00053	.04697	.68743	.21729	25.864	C066-10
70	Blank	.00011	.01970	.00007	.00032	.00002	.00004	.00056	.00374	Blank
71	CCV6	.51748	65.346	.50482	2.4037	.48761	.49642	1.4780	2.6388	CCV6
72	CCB6	.00005	.04689	.00000	.00039	.00008	-.00038	.00032	-.00040	CCB6
73	C066-01	-.00048	.37375	.08086	.00094	.04610	.84285	.25885	19.593	C066-01
74	C066-02	-.00072	.39955	.10548	.00003	.04663	1.0608	.32669	9.0242	C066-02
75	C066-03	-.00056	.33842	.09669	.00021	.04812	1.2593	.31934	45.180*	C066-03
76	C066-04	-.00023	.42075	.09868	-.00011	.04966	1.1032	.32688	73.289*	C066-04
77	C066-05	-.00056	.16392	.06679	.00164	.04674	1.3140	.32253	1.0610	C066-05
78	C066-06	-.00091	.21585	.09469	-.00175	.04912	1.5324	.58630	.32236	C066-06
79	C066-07	-.00060	.18087	.08231	-.00131	.04671	1.3267	.32339	.22023	C066-07
80	C066-08	-.00009	.39412	.08799	.00039	.04862	.64266	.30775	101.89*	C066-08
81	C066-09	-.00032	.41560	.07488	.00264	.04760	.91432	.40996	59.133*	C066-09
82	Blank	-.00006	-.01185	-.00001	-.00008	-.00008	.00000	.00032	.01772	Blank
83	CCV7	.51830	65.226	.50369	2.3911	.48797	.49427	1.4733	2.6341	CCV7
84	CCB7	.00034	.06327	.00041	.00066	-.00003	.00009	.00094*	.00244	CCB7
85	C066-11	-.00050	.93105	.14806	.00095	.04657	.88667	.40255	4.1277	C066-11
86	C066-12	-.00043	.16162	.13010	.00491	.04852	1.3790	.53101	2.1986	C066-12
87	C066-13	-.00054	.19635	.08123	.00274	.04796	1.5763	.46688	1.5035	C066-13
88	C066-14	-.00066	.18002	.05666	.00235	.04580	1.1254	.38136	1.1065	C066-14
89	C066-15	-.00043	.35452	.09158	.00735	.05018	1.5162	.75733	.96213	C066-15
90	C066-16	-.00047	.14941	.06990	.00214	.04638	1.3464	.31918	.54058	C066-16
91	C066-17	-.00054	.15202	.07604	.00204	.04659	1.3092	.28119	.55969	C066-17
92	C066-18	-.00031	.20097	.07417	.00400	.04772	1.1837	.36576	.35866	C066-18
93	C066-19	-.00040	.23500	.08366	.00317	.04891	1.3942	.46166	1.6164	C066-19
94	Blank	.00009	-.01632	-.00003	.00034	-.00025	.00001	.00026	-.00079	Blank
95	CCV8	.51844	64.500	.49877	2.4434	.48702	.49715	1.4894	2.6609	CCV8
96	CCB8	.00014	.01237	.00008	.00106	.00012	-.00027	.00027	-.00063	CCB8
97	TXC001WQ	-.00003	.00740	.00036	.00022	.00015	-.00044	.00032	.00622	TXC001WQ
98	B553-08A	.55288	1073.4*	.52395	.46999	.47486	.50235	.52334	.72214	B553-08A
99	B553-08W	.00006	1036.1*	.05078	-.00258	.00215	.00104	.00078	.12330	B553-08W
100	B553-08J	.00005	217.46	.01021	.00021	.00036	-.00033	.00024	.02176	B553-08J
101	B553-08G	.58679	1185.7*	.55102	.42709	.49227	.51805	.53031	.75878	B553-08G
102	B553-08H	.57459	1164.6*	.54493	.42816	.48802	.51298	.52489	.74929	B553-08H
103	Blank	.00021	1.1517	.00019	.00050	.00000	-.00004	.00023	.00113	Blank
104	Blank	.00009	.25289	.00000	-.00020	-.00013	-.00034	.00015	.00192	Blank
105	CCV9	.51766	65.824	.50637	2.3539	.49003	.49556	1.4756	2.6228	CCV9
106	CCB9	.00019	.18299*	.00006	.00067	-.00008	-.00018	.00029	.00005	CCB9
107	B280-01W	.00010	1168.8*	.01091	-.00012	-.00013	-.00061	.00026	.02303	B280-01W
108	B553-07W	.00008	275.76	.01523	-.00304	.00270	.00009	.00112	5.2532	B553-07W
109	C066-03T	-.00018	.49087	.00962	.00048	.00487	.12681	.03244	4.7179	C066-03T
110	Blank	.00005	.21206	.00003	.00009	.00004	-.00007	.00011	.00200	Blank
111	Blank	-.00005	.17585	.00006	.00042	.00004	-.00061	.00024	.00113	Blank

112	CCV10	.51203	64.619	.50393	2.3448	.49395	.49536	1.4622	2.6032	CCV10
113	CCB10	.00010	.16770*	.00015	.00072	-.00004	-.00015	.00043	.00034	CCB10
114	B553-08A	.51019	276.74	.48906	.48120	.48012	.49801	.50904	.58769	B553-08A
115	B553-08T	.00032	216.39	.01024	-.00058	.00080	-.00016	.00023	.02331	B553-08T
116	B553-08J	.00016	43.031	.00205	.00035	.00014	-.00054	.00020	.00520	B553-08J
117	B553-08G	.10573	244.21	.10884	.08558	.09585	.10156	.10391	.14167	B553-08G
118	B553-08H	.10629	244.33	.10928	.09056	.09760	.10206	.10418	.14207	B553-08H
119	Blank	.00004	.30450	.00006	.00040	-.00030	-.00042	.00012	.00117	Blank
120	CCV11	.51604	65.180	.50168	2.3633	.49168	.49593	1.4771	2.6076	CCV11
121	CCB11	.00023	.21602*	.00040	.00200	-.00003	.00018	.00076*	-.00055	CCB11
122	IPC012WB	-.00003	.16472	.00024	.00073	.00017	.00000	.00023	.00006	IPC012WB
123	IPC012WL	.51861	53.084	.48483	.50185	.48599	.50781	.50481	.52984	IPC012WL
124	IPC012WC	.51404	53.134	.48136	.48955	.47874	.50232	.49790	.51857	IPC012WC
125	C051-02A	.50179	106.09	.71904	.48167	.47860	.50067	.50359	.53213	C051-02A
126	C051-02	-.00002	53.463	.24480	.00007	.00007	.00024	.00113	.00224	C051-02
127	C051-02J	.00027	10.789	.04905	.00085	.00008	-.00025	.00033	.00029	C051-02J
128	C051-02M	.52086	107.97	.72886	.47921	.48964	.50758	.50505	.53197	C051-02M
129	C051-02S	.51740	106.25	.72122	.48047	.49208	.50885	.50493	.53311	C051-02S
130	C051-01	-.00001	59.266	.34194	.00068	-.00045	.00018	.00103	.01049	C051-01
131	Blank	-.00013	.14722	.00020	.00048	-.00011	-.00026	.00026	.00591	Blank
132	CCV12	.50440	64.042	.49492	2.3310	.49777	.49381	1.4715	2.6047	CCV12
133	CCB12	.00010	.12694*	.00001	.00090	-.00014	-.00067	.00027	-.00095	CCB12
134	C708-01	-.00002	417.82	2.5186	-.00146	.00034	.01403	.00417	.01185	C708-01
135	C069-02	.00003	125.02	.85780	.00011	.00124	.20290	.02582	.06725	C069-02
136	C069-03	-.00005	128.94	.45706	.00016	.00035	.00216	.00032	.02052	C069-03
137	C002-02	-.00011	70.057	.72016	.00001	-.00014	.00221	.00263	.47262	C002-02
138	C026-02	-.00008	43.719	.80810	.00023	.00010	.00066	.00609	.03535	C026-02
139	C026-03	-.00020	45.107	.82891	.00018	.00005	.00094	.00494	.10458	C026-03
140	B569-01	.03555	*****	5.5803	-.00961*	.01081	.00412	.00167	134.45*	B569-01
141	Blank	-.00016	5.7894	.00088	.00011	.00001	-.00065	.00028	.03901	Blank
142	ICSA3	.00003	2.4136	-.00089	.00414	.00068	.00445	.00210	.01138	ICSA3
143	ICSAB3	1.1068	86.610	.50885	.82439	.98289	.98610	.48668	1.0390	ICSAB3
144	CCV13	.50747	65.686	.50200	2.2926	.50331	.49468	1.4739	2.6135	CCV13
145	CCB13	-.00002	.52340*	.00011	.00071	-.00020	-.00045	.00016	-.00141	CCB13
146	TXC002SB	24.817*	1116500.*	4.6181*	-164.56*	-3.3335	.77593*	-18.663*	-21.626*	TXC002SB
147	C414-01A	-.56457*	4065500.*	6144.3*	-.02827*	-3.1247*	21.264	.44732	-337.43*	C414-01A
148	C414-01	-1.6194*	14e6*	21798.*	-7.8559*	-5.6607*	71.090*	.47988	-666.13*	C414-01
149	C414-01J	-.74685*	2141600.*	3175.1*	3.4972	-5.9726*	19.810	1.1513	-264.01*	C414-01J
150	C414-01M	-320.35*	-46e6*	-113520.*	-205.30*	-952.69*	-56354.*	-296.74*	-1085.4*	C414-01M
151	C414-01S	-326.65*	13e6*	34027.*	-280.46*	-811.41*	17101.*	-311.48*	-1129.4*	C414-01S
152	C419-01	-1.7839*	12e6*	1374.5*	11.751	-28.571*	21.805	-.26105*	-19657.*	C419-01
153	Blank	-.00011	.68786	.00002	.00031	-.00020	-.00035	.00018	-.00249	Blank
154	CCV14	.50572	65.147	.50079	2.2843	.50090	.49440	1.4691	2.5880	CCV14
155	CCB14	.00016	.37316*	.00021	.00089	.00001	.00012	.00056	.00259	CCB14
156	B553-07W	-2.4164*	1262100.*	69.899*	32.236	59.749*	6.1337	-2.3791*	83340.*	B553-07W
157	B553-07T	-.00003	49.486	.00268	-.00083	.00057	-.00040	.00032	.93562	B553-07T
158	Blank	-.00003	.32350	-.00004	.00054	-.00040	-.00028	.00015	-.00198	Blank
159	Blank	-.00008	.22198	-.00001	.00023	-.00018	-.00051	-.00001	-.00253	Blank
160	Blank	-.00016	.18477	-.00001	.00016	-.00029	-.00071	.00010	-.00194	Blank
161	CCV15	.50502	64.972	.49949	2.2709	.50107	.49254	1.4632	2.5775	CCV15
162	CCB15	.00009	.20056*	.00008	.00115	-.00026	-.00028	.00049	.00217	CCB15
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8C008 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IPC013S
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-302	10
HCl	SW1A-04-333	5+5
H_2O_2	~~SM5~~ HF 3/4 SW1A-04-301	10
HNO3(1:1)	SM5B-02-147	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 11124 1129

Prepared By: HF
Standard Added By: HF Witnessed By: CW
Extract Rcvd By: TH Checked By: TH

FileID: IPC013S

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPC013S01	IPC013SB	1	g	3/7/11 13:30	100	1	100	1	
11IPC013S02	IPC013SL	1	g	3/7/11 13:30	100	1	100	1	
11IPC013S03	IPC013SC	1	g	3/7/11 13:30	100	1	100	1	
11IPC013S04	C066-01	1.1	g	3/7/11 13:33	100	1	100	0.909	✓
11IPC013S05	C066-02	1.298	g	3/7/11 13:34	100	1	100	0.77	✓
11IPC013S06	C066-03	1.281	g	3/7/11 13:35	100	1	100	0.781	✓
11IPC013S07	C066-04	1.247	g	3/7/11 13:36	100	1	100	0.802	✓
11IPC013S08	C066-05	1.127	g	3/7/11 13:38	100	1	100	0.887	✓
11IPC013S09	C066-06	1.152	g	3/7/11 13:39	100	1	100	0.868	✓
11IPC013S10	C066-07	1.043	g	3/7/11 13:41	100	1	100	0.959	✓
11IPC013S11	C066-08	1.04	g	3/7/11 13:47	100	1	100	0.962	✓
11IPC013S12	C066-09	1.234	g	3/7/11 13:48	100	1	100	0.81	✓
11IPC013S13	C066-10	1.075	g	3/7/11 13:49	100	1	100	0.93	✓
11IPC013S14	C066-11	1.188	g	3/7/11 13:51	100	1	100	0.842	✓
11IPC013S15	C066-12	1.107	g	3/7/11 14:00	100	1	100	0.903	✓
11IPC013S16	C066-13	1.114	g	3/7/11 14:06	100	1	100	0.898	✓
11IPC013S17	C066-14	1.086	g	3/7/11 14:08	100	1	100	0.921	✓
11IPC013S18	C066-15	1.266	g	3/7/11 14:10	100	1	100	0.79	✓
11IPC013S19	C066-16	1.064	g	3/7/11 14:11	100	1	100	0.94	✓
11IPC013S20	C066-17	1.107	g	3/7/11 14:13	100	1	100	0.903	✓
11IPC013S21	C066-18	1.125	g	3/7/11 14:14	100	1	100	0.889	✓
11IPC013S22	C066-19	1.398	g	3/7/11 14:16	100	1	100	0.715	✓
11IPC013S23	C066-20	1.035	g	3/7/11 14:17	100	1	100	0.966	✓
11IPC013S24	C066-20M	1.261	g	3/7/11 14:17	100	1	100	0.793	✓
11IPC013S25	C066-20S	1.325	g	3/7/11 14:18	100	1	100	0.755	✓

HF 3/7/11

Balance ID: 10601202. Calibration check was verified prior to use.

Vd=digestate volume

AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 3/7/11 15:31

Prepared By: HF

☑ Digestion Ended @ 3/7/11 17:31

Checked By: TH

Comments:

Date 3/7/11

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C066

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of five (5) soil samples were received on 03/04/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC016SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.
Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

Samples were oven-dried and pass through sieve # 60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C066
Instrument ID : T-I08

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC016SB	1	NA	03/09/1117:37	03/08/1115:57	ID8C010046	ID8C010044	IPC016S	Method Blank
LCS1S	IPC016SL	1	NA	03/09/1117:40	03/08/1115:57	ID8C010047	ID8C010044	IPC016S	Lab Control Sample (LCS)
LCD1S	IPC016SC	1	NA	03/09/1117:42	03/08/1115:57	ID8C010048	ID8C010044	IPC016S	LCS Duplicate
HA28-0232AS	C050-11A	0.952	NA	03/09/1117:45	03/08/1115:57	ID8C010049	ID8C010044	IPC016S	Analytical Spike Sample
HA28-0232	C050-11	0.952	NA	03/09/1117:47	03/08/1115:57	ID8C010050	ID8C010044	IPC016S	Field Sample
HA28-0232DL	C050-11J	4.76	NA	03/09/1117:50	03/08/1115:57	ID8C010051	ID8C010044	IPC016S	Diluted Sample
CB231-10-01	C066-01	0.909	NA	03/09/1118:34	03/08/1115:57	ID8C010067	ID8C010065	IPC016S	Field Sample
CB231-11-01	C066-03	0.855	NA	03/09/1118:37	03/08/1115:57	ID8C010068	ID8C010065	IPC016S	Field Sample
CP091-15-01	C066-10	0.917	NA	03/09/1118:39	03/08/1115:57	ID8C010069	ID8C010065	IPC016S	Field Sample
CP091-15-02	C066-11	0.980	NA	03/09/1118:42	03/08/1115:57	ID8C010070	ID8C010065	IPC016S	Field Sample
CP093-S1-02-01	C066-12	0.694	NA	03/09/1118:45	03/08/1115:57	ID8C010071	ID8C010065	IPC016S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 15:15
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/08/11 15:57
Sample ID:	CB231-10-01	Date Analyzed:	03/09/11 18:34
Lab Samp ID:	C066-01	Dilution Factor:	0.909
Lab File ID:	ID8C010067	Matrix :	SOIL
Ext Btch ID:	IPC016S	% Moisture :	NA
Calib. Ref.:	ID8C010065	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	105	0.909	0.273

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	02/28/11 14:50
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/08/11 15:57
Sample ID:	CB231-11-01	Date Analyzed:	03/09/11 18:37
Lab Samp ID:	C066-03	Dilution Factor:	0.855
Lab File ID:	ID8C010068	Matrix :	SOIL
Ext Btch ID:	IPC016S	% Moisture :	NA
Calib. Ref.:	ID8C010065	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	114	0.855	0.257

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 09:35
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/08/11 15:57
Sample ID:	CP091-15-01	Date Analyzed:	03/09/11 18:39
Lab Samp ID:	C066-10	Dilution Factor:	0.917
Lab File ID:	ID8C010069	Matrix :	SOIL
Ext Btch ID:	IPC016S	% Moisture :	NA
Calib. Ref.:	ID8C010065	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	171	0.917	0.275

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 09:40
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/08/11 15:57
Sample ID:	CP091-15-02	Date Analyzed:	03/09/11 18:42
Lab Samp ID:	C066-11	Dilution Factor:	0.980
Lab File ID:	ID8C010070	Matrix :	SOIL
Ext Btch ID:	IPC016S	% Moisture :	NA
Calib. Ref.:	ID8C010065	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	34.3	0.980	0.294

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/01/11 10:50
Project	: TAR CREEK OU4	Date Received:	03/04/11
SDG NO.	: 11C066	Date Extracted:	03/08/11 15:57
Sample ID:	CP093-S1-02-01	Date Analyzed:	03/09/11 18:45
Lab Samp ID:	C066-12	Dilution Factor:	0.694
Lab File ID:	ID8C010071	Matrix :	SOIL
Ext Btch ID:	IPC016S	% Moisture :	NA
Calib. Ref.:	ID8C010065	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	25.7	0.694	0.208

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C066	Date Extracted:	03/08/11 15:57
Sample ID:	MBLK1S	Date Analyzed:	03/09/11 17:37
Lab Samp ID:	IPC016SB	Dilution Factor:	1
Lab File ID:	ID8C010046	Matrix :	SOIL
Ext Btch ID:	IPC016S	% Moisture :	NA
Calib. Ref.:	ID8C010044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC016SB	IPC016SL	IPC016SC		
LAB FILE ID:	ID8C010046	ID8C010047	ID8C010048		
DATIME EXTRCTD:	03/08/1115:57	03/08/1115:57	03/08/1115:57	DATE COLLECTED:	NA
DATIME ANALYZD:	03/09/1117:37	03/09/1117:40	03/09/1117:42	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC016S	IPC016S	IPC016S		
CALIB. REF:	ID8C010044	ID8C010044	ID8C010044		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	49.8	100	50	49.9	100	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.952	4.76		
SAMPLE ID:	HA28-0232	HA28-0232DL		
EMAX SAMP ID:	C050-11	C050-11J		
LAB FILE ID:	ID8C010050	ID8C010051		
DATE EXTRACTED:	03/08/1115:57	03/08/1115:57	DATE COLLECTED:	03/03/11 14:00
DATE ANALYZED:	03/09/1117:47	03/09/1117:50	DATE RECEIVED:	03/04/11
PREP. BATCH:	IPC016S	IPC016S		
CALIB. REF:	ID8C010044	ID8C010044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	8.84	8.85	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C066
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.952	0.952		
SAMPLE ID:	HA28-0232			
CONTROL NO.:	C050-11	C050-11A		
LAB FILE ID:	ID8C010050	ID8C010049		
DATIME EXTRCTD:	03/08/1115:57	03/08/1115:57	DATE COLLECTED:	03/03/11 14:00
DATIME ANALYZD:	03/09/1117:47	03/09/1117:45	DATE RECEIVED:	03/04/11
PREP. BATCH:	IPC016S	IPC016S		
CALIB. REF:	ID8C010044	ID8C010044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	8.84	47.6	56	99	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/9/11 15:27

End Date: 3/9/11 20:22

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

- B569-01T @ 5X 2nd DR
- C448-01T 2nd DR @ 50X
- C842-01T & C438-01T overdiluted @ 10X
- TLP B553-07W IS ↓. sample turbid w/ organic layer.

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8C010

Analytical Sequence: S-11C6010 (V11)

Method File: 11C6010 (V11)

Database: Emax 13

	STANDARDS ID			STANDARDS ID	
S0	SMIB14-4005		S30	SMIB14-4201	
S1	MA		S31		4202
S2	↓		ICV		2701
S3			CCV		3805
S4			ICSA		4404
S5			ICSAB	↓	1803
S6			MLCV	MA	
S7			LLCV	↓	
S8			CRI/MRL		
S9			MRL1	SMIB14-4104	
S10			MRL2	↓	4403
S11					
S12					
S16					
S17					
S18	↓				
S20	SMIB14-3102				
S21		3702			
S22		3703			
S23		3704			
S24		4001			
S25		4002			
S26		2801			
S27		2802			
S28		4003			
S29	↓	4004			

Analyzed By: TH

Date: 3/10/11

7072

SEQUENCE FILE : ID8C010

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C010001	Blank	15:27	03/09/11	1.000
ID8C010002	S20	15:29	03/09/11	1.000
ID8C010003	S21	15:32	03/09/11	1.000
ID8C010004	S22	15:35	03/09/11	1.000
ID8C010005	S23	15:38	03/09/11	1.000
ID8C010006	S24	15:41	03/09/11	1.000
ID8C010007	S25	15:44	03/09/11	1.000
ID8C010008	S26	15:47	03/09/11	1.000
ID8C010009	S27	15:50	03/09/11	1.000
ID8C010010	S28	15:53	03/09/11	1.000
ID8C010011	S29	15:56	03/09/11	1.000
ID8C010012	S30	15:58	03/09/11	1.000
ID8C010013	S31	16:01	03/09/11	1.000
ID8C010014	ICV	16:04	03/09/11	1.000
ID8C010015	ICB	16:07	03/09/11	1.000
ID8C010016	ZZZZ	16:09	03/09/11	1.000
ID8C010017	B549-01W	16:12	03/09/11	1.000
ID8C010018	MRLC0901	16:16	03/09/11	1.000
ID8C010019	MRLC0902	16:21	03/09/11	1.000
ID8C010020	ICSA1	16:24	03/09/11	1.000
ID8C010021	ICSAB1	16:27	03/09/11	1.000
ID8C010022	CCV1	16:30	03/09/11	1.000
ID8C010023	CCB1	16:32	03/09/11	1.000
ID8C010024	IPC012WB	16:35	03/09/11	1.000
ID8C010025	IPC012WL	16:38	03/09/11	1.000
ID8C010026	IPC012WC	16:41	03/09/11	1.000
ID8C010027	TXC002SB	16:43	03/09/11	1.000
ID8C010028	C414-01A	16:46	03/09/11	1.000
ID8C010029	C414-01	16:49	03/09/11	1.000
ID8C010030	C414-01J	16:52	03/09/11	5.000
ID8C010031	C414-01M	16:55	03/09/11	1.000
ID8C010032	C414-01S	16:57	03/09/11	1.000
ID8C010033	Blank	17:00	03/09/11	1.000
ID8C010034	CCV2	17:03	03/09/11	1.000
ID8C010035	CCB2	17:06	03/09/11	1.000
ID8C010036	C419-01	17:09	03/09/11	1.000
ID8C010037	B553-07W	17:12	03/09/11	1.000
ID8C010038	B569-01T	17:14	03/09/11	5.000
ID8C010039	B569-02	17:17	03/09/11	1.000
ID8C010040	B569-02T	17:20	03/09/11	5.000
ID8C010041	Blank	17:23	03/09/11	1.000
ID8C010042	Blank	17:26	03/09/11	1.000
ID8C010043	Blank	17:29	03/09/11	1.000
ID8C010044	CCV3	17:31	03/09/11	1.000
ID8C010045	CCB3	17:34	03/09/11	1.000
ID8C010046	IPC016SB	17:37	03/09/11	1.000
ID8C010047	IPC016SL	17:40	03/09/11	1.000
ID8C010048	IPC016SC	17:42	03/09/11	1.000
ID8C010049	C050-11A	17:45	03/09/11	1.000
ID8C010050	C050-11	17:47	03/09/11	1.000
ID8C010051	C050-11J	17:50	03/09/11	5.000
ID8C010052	C050-11M	17:53	03/09/11	1.000
ID8C010053	C050-11S	17:55	03/09/11	1.000
ID8C010054	C050-05	17:58	03/09/11	1.000

ID8C010055	Blank	18:01	03/09/11	1.000
ID8C010056	CCV4	18:04	03/09/11	1.000
ID8C010057	CCB4	18:06	03/09/11	1.000
ID8C010058	C050-06	18:09	03/09/11	1.000
ID8C010059	C050-07	18:12	03/09/11	1.000
ID8C010060	C050-08	18:15	03/09/11	1.000
ID8C010061	C050-09	18:17	03/09/11	1.000
ID8C010062	C050-10	18:20	03/09/11	1.000
ID8C010063	B569-01I	18:23	03/09/11	10.00
ID8C010064	Blank	18:26	03/09/11	1.000
ID8C010065	CCV5	18:29	03/09/11	1.000
ID8C010066	CCB5	18:31	03/09/11	1.000
ID8C010067	C066-01	18:34	03/09/11	1.000
ID8C010068	C066-03	18:37	03/09/11	1.000
ID8C010069	C066-10	18:39	03/09/11	1.000
ID8C010070	C066-11	18:42	03/09/11	1.000
ID8C010071	C066-12	18:45	03/09/11	1.000
ID8C010072	Blank	18:48	03/09/11	1.000
ID8C010073	CCV6	18:51	03/09/11	1.000
ID8C010074	CCB6	18:53	03/09/11	1.000
ID8C010075	IPC015SB	18:56	03/09/11	1.000
ID8C010076	IPC015SL	18:59	03/09/11	1.000
ID8C010077	IPC015SC	19:01	03/09/11	1.000
ID8C010078	C448-01A	19:04	03/09/11	50.00
ID8C010079	C448-01T	19:07	03/09/11	50.00
ID8C0100B0	C448-01J	19:10	03/09/11	250.0
ID8C0100B1	C448-01M	19:12	03/09/11	50.00
ID8C010082	C448-01S	19:15	03/09/11	50.00
ID8C0100B3	Blank	19:18	03/09/11	1.000
ID8C010084	Blank	19:21	03/09/11	1.000
ID8C010085	CCV7	19:24	03/09/11	1.000
ID8C010086	CCB7	19:26	03/09/11	1.000
ID8C010087	C839-01T	19:29	03/09/11	10.00
ID8C010088	C839-02T	19:32	03/09/11	50.00
ID8C010089	C840-01T	19:35	03/09/11	10.00
ID8C010090	C840-02T	19:38	03/09/11	50.00
ID8C010091	C841-01T	19:40	03/09/11	10.00
ID8C010092	C841-02T	19:43	03/09/11	50.00
ID8C010093	C842-01T	19:46	03/09/11	10.00
ID8C010094	C842-02T	19:49	03/09/11	50.00
ID8C010095	Blank	19:51	03/09/11	1.000
ID8C010096	Blank	19:54	03/09/11	1.000
ID8C010097	CCV8	19:57	03/09/11	1.000
ID8C010098	CCB8	20:00	03/09/11	1.000
ID8C010099	C437-01T	20:03	03/09/11	10.00
ID8C010100	C437-02T	20:05	03/09/11	50.00
ID8C010101	C438-01T	20:08	03/09/11	10.00
ID8C010102	C438-02T	20:11	03/09/11	10.00
ID8C010103	Blank	20:14	03/09/11	1.000
ID8C010104	Blank	20:17	03/09/11	1.000
ID8C010105	CCV9	20:19	03/09/11	1.000
ID8C010106	CCB9	20:22	03/09/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8C010 DATE : 03/09/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	96	104	100	104	101	100	99	96	93	101	102	98	106	94	94	99	98	96	102	100	108	98	92	99	100	99	106
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ZZZZ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B549-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC0901	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC0902	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	95	----	----	----	97	----	----	96	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	102	107	107	102	112	97	93	94	94	108	95	95	113	95	93	103	97	103	106	110	113	100	84	100	98	99	107
CCV1	105	100	105	101	103	101	101	98	97	96	102	102	98	105	94	95	101	98	97	104	101	107	98	94	101	99	100	108
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	104	100	105	101	103	101	100	98	97	96	102	101	98	106	94	96	101	98	98	104	101	108	99	93	101	99	100	108
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C419-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	102	98	103	99	102	101	99	99	97	95	99	101	98	105	95	95	100	97	98	101	100	108	97	92	102	98	99	108
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	102	99	104	100	102	101	99	98	96	96	99	101	98	105	93	95	101	98	98	102	100	107	98	92	102	98	99	109
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	102	100	104	100	101	100	98	98	95	96	99	100	98	105	93	94	102	98	98	103	99	108	98	91	104	98	99	108
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	101	99	103	99	100	99	97	97	94	95	98	99	97	104	91	93	101	97	96	102	98	106	97	91	103	97	98	107
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	101	99	103	99	100	98	96	96	93	95	97	99	98	103	91	92	101	97	95	101	97	105	96	91	104	97	98	108
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C839-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C839-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C840-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C840-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C841-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C841-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	102	99	102	99	100	98	95	97	93	95	97	99	98	103	91	92	102	97	96	101	97	106	96	90	105	97	99	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C437-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C437-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C438-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C438-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	102	99	102	99	100	99	96	97	93	95	97	100	97	103	91	92	101	97	96	100	97	105	95	90	104	97	99	107
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C010 (SOIL) DATE : 03/09/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.7	1.23	-1.07	.380	.330	6.77	.210	5.79	.340	.080	.390	4.27	.100	.620	12.6	.760	.550	.360	101	.070	.050	60.9	.200	.560	.070	.360	.210	-.370
ZZZZ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B549-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC0901	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC0902	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	5.73	-.420	.340	-.050	52.1	-.290	----	-2.12	.660	1.84	----	.770	5.61	----	9.99	-1.87	1.31	-31.9	.000	.070	20.1	-4.17	2.37	1.66	6.25	1.89	3.66
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	21.3	1.24	-.730	.390	.090	5.84	.230	64.8	.250	.100	.170	8.06	.370	.340	8.54	.610	.490	.290	79.4	.790	.030	70.4	.160	.310	-.080	.170	.160	2.15
IPC012WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC012WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC002SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C414-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	13.1	1.25	-.330	.660	.220	5.98	.250	63.5	.430	.110	.120	5.20	.560	.270	8.17	.470	.540	.360	130	-.540	.070	171	.210	.310	.320	.200	.170	2.23
C419-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B553-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	12.2	.660	.240	.500	.170	6.20	.260	57.9	.460	.140	.160	3.46	.390	.510	13.3	.620	.480	.330	77.0	-.290	.200	147	.140	.150	-.490	.330	.120	2.22
IPC016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	14.6	.560	1.44	.520	.180	6.60	.380	57.3	.380	.020	.270	3.96	.710	.170	5.82	.450	.670	.560	60.6	.490	.050	67.6	.130	.390	-.220	.500	.340	2.30
C050-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C050-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B569-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	11.0	.630	.490	.580	.190	7.17	.230	58.3	.190	.080	.210	4.11	.590	.820	12.1	.330	.570	.500	93.1	.230	.100	151	.070	.580	-.550	-.030	.180	3.79
C066-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C066-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	18.8	1.31	.210	.430	.210	6.37	.360	19.6	.420	.110	.490	7.74	.540	.300	6.45	.420	.680	.610	39.8	.420	.210	40.5	.160	.650	-.150	.260	.260	9.68
IPC015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	9.04	.290	.220	.450	.230	5.90	.280	17.2	.520	-.020	.140	2.19	.380	.150	7.86	.330	.610	.510	56.8	.500	.150	34.9	.140	.160	-.410	.420	.280	.170
C839-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C839-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C840-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C840-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C841-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C841-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	6.49	.590	1.08	.390	.170	5.47	.220	12.1	.290	.020	.310	2.56	.480	.550	14.9	.330	.470	.460	26.9	.280	.180	24.9	.110	.330	.000	.400	.260	.090
C437-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C437-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C438-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C438-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	1.05	1.06	-.300	.330	.130	5.37	.160	11.5	.180	.110	.100	.020	1.01	.530	12.7	.390	.480	.320	26.1	.360	.100	22.4	.090	.060	-.270	.310	.250	.080

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C010001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8C010002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8C010003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8C010004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8C010005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8C010006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8C010007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8C010008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8C010009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8C010010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8C010011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8C010012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8C010013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8C010014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8C010015			1	☒	3XIDL	None
16	59	2	11	5	Unk	ZZZZ		ID8C010016			1	☒	unk	---
17	59	2	11	5	Unk	B549-01W	confirm Fe	ID8C010017			1	☒	unk	---
18	3	2	3	1	QC	MRLC0901		ID8C010018			1	☒	MRL-EMAX	None
19	4	2	4	1	QC	MRLC0902		ID8C010019			1	☒	MRL-AFCEE	None
20	5	2	5	1	QC	ICSA1		ID8C010020			1	☒	ICSA	None
21	6	2	6	1	QC	ICSAB1		ID8C010021			1	☒	ICSAB	None
22	7	2	7	1	QC	CCV1		ID8C010022			1	☒	CCV	None
23	8	2	8	1	QC	CCB1		ID8C010023			1	☒	3XIDL	None
24	9	2	9	1	QC	IPC012WB		ID8C010024			1	☒	1/2LOQ	None
25	10	2	10	1	QC	IPC012WL		ID8C010025			1	☒	LCS	None
26	11	2	11	1	QC	IPC012WC		ID8C010026			1	☒	LCS	None
27	12	2	12	1	QC	TXC002SB	TCLP	ID8C010027			1	☒	1/2LOQ	None
28	13	2	1	2	Unk	C414-01A	TCLP	ID8C010028			1	☒	unk	---
29	14	2	2	2	Unk	C414-01	TCLP	ID8C010029			1	☒	unk	---
30	15	2	3	2	Unk	C414-01J	TCLP	ID8C010030			1	☒	unk	---
31	16	2	4	2	Unk	C414-01M	TCLP	ID8C010031			1	☒	unk	---
32	17	2	5	2	Unk	C414-01S	TCLP	ID8C010032			1	☒	unk	---
33	18	2	6	2	Blank	Blank		ID8C010033			1	☐		---
34	19	2	7	2	QC	CCV2		ID8C010034			1	☒	CCV	None
35	20	2	8	2	QC	CCB2		ID8C010035			1	☒	3XIDL	None
36	21	2	9	2	Unk	C419-01	TCLP	ID8C010036			1	☒	unk	---
37	22	2	10	2	Unk	B553-07W	TCLP	ID8C010037			1	☒	unk	---
38	23	2	11	2	Unk	B569-01T	5X	ID8C010038			1	☒	unk	---
39	24	2	12	2	Unk	B569-02		ID8C010039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	25	2	1	3	Unk	B569-02T	5X	ID8C010040			1	☒	unk	---
41	26	2	2	3	Blank	Blank		ID8C010041			1	☐		---
42	27	2	3	3	Blank	Blank		ID8C010042			1	☐		---
43	28	2	4	3	Blank	Blank		ID8C010043			1	☐		---
44	29	2	5	3	QC	CCV3		ID8C010044			1	☒	CCV	None
45	30	2	6	3	QC	CCB3		ID8C010045			1	☒	3XIDL	None
46	31	2	7	3	QC	IPC016SB		ID8C010046			1	☒	1/2LOQ	None
47	32	2	8	3	QC	IPC016SL		ID8C010047			1	☒	LCS	None
48	33	2	9	3	QC	IPC016SC		ID8C010048			1	☒	LCS	None
49	34	2	10	3	Unk	C050-11A		ID8C010049			1	☒	unk	---
50	35	2	11	3	Unk	C050-11		ID8C010050			1	☒	unk	---
51	36	2	12	3	Unk	C050-11J		ID8C010051			1	☒	unk	---
52	37	2	1	4	Unk	C050-11M		ID8C010052			1	☒	unk	---
53	38	2	2	4	Unk	C050-11S		ID8C010053			1	☒	unk	---
54	39	2	3	4	Unk	C050-05		ID8C010054			1	☒	unk	---
55	40	2	4	4	Blank	Blank		ID8C010055			1	☐		---
56	41	2	5	4	QC	CCV4		ID8C010056			1	☒	CCV	None
57	42	2	6	4	QC	CCB4		ID8C010057			1	☒	3XIDL	None
58	43	2	7	4	Unk	C050-06		ID8C010058			1	☒	unk	---
59	44	2	8	4	Unk	C050-07		ID8C010059			1	☒	unk	---
60	45	2	9	4	Unk	C050-08		ID8C010060			1	☒	unk	---
61	46	2	10	4	Unk	C050-09		ID8C010061			1	☒	unk	---
62	47	2	11	4	Unk	C050-10		ID8C010062			1	☒	unk	---
63	92	3	8	3	Unk	B569-01I	10X	ID8C010063			1	☒	unk	---
64	48	2	12	4	Blank	Blank		ID8C010064			1	☐		---
65	49	2	1	5	QC	CCV5		ID8C010065			1	☒	CCV	None
66	50	2	2	5	QC	CCB5		ID8C010066			1	☒	3XIDL	None
67	51	2	3	5	Unk	C066-01	dried & sieved	ID8C010067			1	☒	unk	---
68	52	2	4	5	Unk	C066-03	dried & sieved	ID8C010068			1	☒	unk	---
69	53	2	5	5	Unk	C066-10	dried & sieved	ID8C010069			1	☒	unk	---
70	54	2	6	5	Unk	C066-11	dried & sieved	ID8C010070			1	☒	unk	---
71	55	2	7	5	Unk	C066-12	dried & sieved	ID8C010071			1	☒	unk	---
72	56	2	8	5	Blank	Blank		ID8C010072			1	☐		---
73	57	2	9	5	QC	CCV6		ID8C010073			1	☒	CCV	None
74	58	2	10	5	QC	CCB6		ID8C010074			1	☒	3XIDL	None
75	60	2	12	5	QC	IPC015SB		ID8C010075			1	☒	1/2LOQ	None
76	61	3	1	1	QC	IPC015SL		ID8C010076			1	☒	LCS	None
77	62	3	2	1	QC	IPC015SC		ID8C010077			1	☒	LCS	None
78	63	3	3	1	Unk	C448-01A	50X GREEN	ID8C010078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	64	3	4	1	Unk	C448-01T	50X GREEN	ID8C010079			1	☒	unk	---
80	65	3	5	1	Unk	C448-01J	250X GREEN	ID8C010080			1	☒	unk	---
81	66	3	6	1	Unk	C448-01M	50X GREEN	ID8C010081			1	☒	unk	---
82	67	3	7	1	Unk	C448-01S	50X GREEN	ID8C010082			1	☒	unk	---
83	68	3	8	1	Blank	Blank		ID8C010083			1	☐		---
84	91	3	7	3	Blank	Blank		ID8C010084			1	☐		---
85	69	3	9	1	QC	CCV7		ID8C010085			1	☒	CCV	None
86	70	3	10	1	QC	CCB7		ID8C010086			1	☒	3XIDL	None
87	71	3	11	1	Unk	C839-01T	10X	ID8C010087			1	☒	unk	---
88	72	3	12	1	Unk	C839-02T	50X GREEN	ID8C010088			1	☒	unk	---
89	73	3	1	2	Unk	C840-01T	10X	ID8C010089			1	☒	unk	---
90	74	3	2	2	Unk	C840-02T	50X GREEN	ID8C010090			1	☒	unk	---
91	75	3	3	2	Unk	C841-01T	10X	ID8C010091			1	☒	unk	---
92	76	3	4	2	Unk	C841-02T	50X GREEN	ID8C010092			1	☒	unk	---
93	77	3	5	2	Unk	C842-01T	10X	ID8C010093			1	☒	unk	---
94	78	3	6	2	Unk	C842-02T	50X GREEN	ID8C010094			1	☒	unk	---
95	79	3	7	2	Blank	Blank		ID8C010095			1	☐		---
96	80	3	8	2	Blank	Blank		ID8C010096			1	☐		---
97	81	3	9	2	QC	CCV8		ID8C010097			1	☒	CCV	None
98	82	3	10	2	QC	CCB8		ID8C010098			1	☒	3XIDL	None
99	83	3	11	2	Unk	C437-01T	10X	ID8C010099			1	☒	unk	---
100	84	3	12	2	Unk	C437-02T	50X GREEN	ID8C010100			1	☒	unk	---
101	85	3	1	3	Unk	C438-01T	10X	ID8C010101			1	☒	unk	---
102	86	3	2	3	Unk	C438-02T	10X	ID8C010102			1	☒	unk	---
103	87	3	3	3	Blank	Blank		ID8C010103			1	☐		---
104	88	3	4	3	Blank	Blank		ID8C010104			1	☐		---
105	89	3	5	3	QC	CCV9		ID8C010105			1	☒	CCV	None
106	90	3	6	3	QC	CCB9		ID8C010106			1	☒	3XIDL	None

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ID8C010 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00091	.00002	-.00001	.00016	.00008	.00013	-.00004	.00055	.00000	-.00095	Blank
2	S20					.88021		.11420				S20
3	S21					8.5635		1.0947				S21
4	S22				.46567						.15559	S22
5	S23				4.5486						1.6199	S23
6	S24						09000					S24
7	S25						.92994					S25
8	S26	.24534							.88194	.12703		S26
9	S27	9.4013							8.5740	1.3003		S27
10	S28		.00587									S28
11	S29		.05445									S29
12	S30			.00128								S30
13	S31			.00514								S31
14	ICV	104.60	1.4392	1.0374	2.0035	1.5544	2.5141	1.9976	74.523	2.3878	.93438	ICV
15	ICB	.01573	.00123	-.00107	.00038	.00033*	.00677	.00021	.00579	.00034	.00008	ICB
16	ZZZZ	-160.74*	-19.599*	3.4066	1.2084	.26961	-43.205*	.73811	10.279	-3.5128*	-.00397	ZZZZ
17	B549-01W	.03387	.00092	.00355	.01514	-.00005	3.0666	.00004	17.872	.00068	-.00011	B549-01W
18	MRLC0901	.20179	.09788	.00914	.01038	.01022	.02151*	.01026	1.0262	.01012	.00926	MRLC0901
19	MRLC0902	.20468	.04627	.01095	.00496	.00405	.10021	.00508	.516B9	.00987	.00912	MRLC0902
20	ICSA1	390.74	.00573	-.00042	.00034	-.00005	.05207	-.00029	474.60	-.00212	.00066	ICSA1
21	ICSAB1	395.91	1.0190	1.0702	.53528	.50921	.55885	.97395	464.43	.47016	.47189	ICSAB1
22	CCV1	105.34	1.5050	1.0548	2.0159	1.5414	2.5298	2.0177	73.423	2.4201	.95735	CCV1
23	CCB1	.02127	.00124	-.00073	.00039	.00009	.00584	.00023	.06478	.00025	.00010	CCB1
24	IPC012WB	.01559	.00063	.00012	.00010	-.00004	.00365	.00002	-.00362	-.00004	.00012	IPC012WB
25	IPC012WL	5.4088	2.5051	.53513	.50638	.52489	.51621	.52478	49.337	.49607	.48586	IPC012WL
26	IPC012WC	5.2285	2.4342	.51778	.49063	.50883	.50266	.51224	48.174	.48136	.47120	IPC012WC
27	TXC002SB	.02628	.00134	-.00091	.00141	.00002	.03019	.00004	.01593	.00024	.00000	TXC002SB
28	C414-01A	5.4876	2.4598	.55537	.58703	.51846	.82262	.51544	144.66	.49937	.49004	C414-01A
29	C414-01	.02564	.00298	-.00107	.08929	.00003	.30776	.00011	99.813	.00074	.00119	C414-01
30	C414-01J	.00844	.00128	-.00043	.01869	-.00002	.06063	.00000	20.224	.00027	.00018	C414-01J
31	C414-01M	5.6735	2.5943	.57151	.60275	.52740	.85114	.52232	144.83	.50518	.49400	C414-01M
32	C414-01S	5.7397	2.6393	.58216	.60883	.52973	.86208	.53458	144.38	.50980	.49897	C414-01S
33	Blank	.00441	.00104	-.00056	.00047	.00005	.00260	.00012	.13317	.00013	-.00007	Blank
34	CCV2	103.73	1.5018	1.0544	2.0274	1.5412	2.5317	2.0077	73.283	2.4232	.95882	CCV2
35	CCB2	.01308	.00125	-.00033	.00066	.00022*	.00598	.00025	.06347	.00043	.00011	CCB2
36	C419-01	.06178	.03115	-.00056	.29279	.00003	.27614	.00702	5.5762	.00100	.00087	C419-01
37	B553-07W	.13200	.00612	-.00200	.48693	.00007	.32442	.00197	8.8128	.00294	.00089	B553-07W
38	B569-01T	2.3957	.00637	.00024	.02007	-.00002	4.9103	.16626	73.464	.12838	-.00017	B569-01T
39	B569-02	.02251	.00270	-.00172	.00097	.00001	.09985	.12555	.70773	.00204	-.00007	B569-02
40	B569-02T	.00185	.00144	-.00084	.00034	-.00004	.02259	.02527	.13669	.00023	-.00014	B569-02T
41	Blank	-.00293	.00032	.00039	.00026	-.00004	.00289	.00003	.04697	.00000	-.00018	Blank
42	Blank	.00811	.00084	-.00092	.00022	-.00003	.00173	.00004	.02768	-.00016	-.00006	Blank
43	Blank	-.00182	.00074	-.00129	.00052	.00000	.00106	.00000	.03490	.00002	-.00003	Blank
44	CCV3	102.35	1.4739	1.0256	1.9800	1.5317	2.5198	1.9729	74.607	2.4178	.94996	CCV3
45	CCB3	.01222	.00066	.00024	.00050	.00017	.00620	.00026	.05795	.00046	.00014	CCB3
46	IPC016SB	.02379	.00146	-.00198	.00056	.00036	.00475	-.00006	.01690	.00084	-.00013	IPC016SB
47	IPC016SL	5.0864	2.3793	.50805	.49916	.51853	.46953	.51188	49.366	.49671	.49199	IPC016SL
48	IPC016SC	5.1163	2.3878	.51018	.50216	.51972	.47402	.51172	49.689	.49835	.49420	IPC016SC
49	C050-11A	38.623	2.3139	.51625	.57525	.52316	.47864	.50442	50.231	.54380	.50030	C050-11A
50	C050-11	32.277	.00312	.00879	.07103	.00099	.01392	-.00042	1.0464	.04783	.00526	C050-11
51	C050-11J	6.6397	.00109	.00151	.01410	.00015	.00348	-.00003	.20194	.00965	.00107	C050-11J
52	C050-11M	65.292	2.2980	.51637	.59261	.53001	.47781	.51057	52.714	.55875	.51398	C050-11M
53	C050-11S	64.007	2.2495	.50353	.58407	.52159	.47270	.49781	51.666	.55387	.50772	C050-11S
54	C050-05	94.279	.01668	.01413	.33910	.00123	.03690	-.00016	49.765	.18508	.04988	C050-05

55	Blank	.01217	.00090	.00053	.00021	-.00004	.00101	.00009	.03010	.00010	-.00003	Blank
56	CCV4	101.87	1.4859	1.0373	2.0008	1.5247	2.5150	1.9768	73.816	2.4016	.95758	CCV4
57	CCB4	.01462	.00056	.00144	.00052	.00018	.00660	.00038	.05733	.00038	.00002	CCB4
58	C050-06	28.704	.00173	.01038	.05165	.00116	.01640	-.00042	.58567	.05912	.00523	C050-06
59	C050-07	29.793	.00094	.01143	.05185	.00083	.01653	-.00052	.57974	.05981	.00515	C050-07
60	C050-08	37.007	.00025	.01068	.05050	.00093	.01746	-.00065	1.1121	.06452	.00534	C050-08
61	C050-09	28.478	.00100	.00765	.05472	.00078	.01298	-.00051	.61901	.04801	.00461	C050-09
62	C050-10	36.089	.00136	.00934	.06416	.00093	.01574	-.00070	.50020	.06265	.00606	C050-10
63	B569-01I	1.1796	.00349	-.00079	.01001	-.00002	2.3755	.08150	37.670	.06363	-.00027	B569-01I
64	Blank	-.00095	-.00003	-.00123	.00012	-.00004	.00583	.00001	.02148	.00011	.00003	Blank
65	CCV5	101.96	1.4929	1.0365	2.0045	1.5212	2.5100	1.9509	73.381	2.3715	.95944	CCV5
66	CCB5	.01099	.00063	.00049	.00058	.00019	.00717	.00023	.05832	.00019	.00008	CCB5
67	C066-01	83.586	.01192	.06784	1.2204	.00951	.05964	.16593	64.292	.13321	.04648	C066-01
68	C066-03	75.822	.01716	.09911	1.0488	.00930	.06766	.25589	72.902	.21625	.08012	C066-03
69	C066-10	85.899	.01206	.06142	1.3645	.00775	.05176	.11516	46.272	.12663	.06466	C066-10
70	C066-11	103.83	.00801	.06432	1.8362	.00928	.04556	.02461	64.227	.14948	.08967	C066-11
71	C066-12	91.529	.01236	.09661	1.8779	.00877	.08221	.01459	19.929	.25107	.13798	C066-12
72	Blank	.05625	-.00031	.00038	.00102	-.00002	.00020	.00007	.05337	.00013	.00003	Blank
73	CCV6	100.56	1.4829	1.0283	1.9803	1.4992	2.4781	1.9331	72.764	2.3399	.95126	CCV6
74	CCB6	.01883	.00131	.00021	.00043	.00021*	.00637	.00036	.01961	.00042	.00011	CCB6
75	IPC015SB	.04828	.00111	-.00071	.00166	.00035	.00366	.00006	.02953	.00194	-.00007	IPC015SB
76	IPC015SL	4.9448	2.3656	.49643	.49364	.50826	.45994	.49451	49.588	.48263	.49309	IPC015SL
77	IPC015SC	4.9825	2.3984	.50232	.49719	.51289	.46849	.49968	50.058	.48786	.49754	IPC015SC
78	C448-01A	5.3845	2.2605	.53262	.49771	.51619	.51176	.50221	49.704	18.434*	.51553	C448-01A
79	C448-01T	.05893	-.14205*	.01477	.00007	-.00013	.02162	-.00063	.01746	18.075*	.02588	C448-01T
80	C448-01J	.00694	-.02890	.00288	.00002	-.00007	.00484	-.00010	-.00717	3.8865	.00535	C448-01J
81	C448-01M	.16468	-.10317*	.02467	.00955	.00949	.02898	.00894	.95895	18.351*	.03523	C448-01M
82	C448-01S	.17586	-.10606*	.02522	.00980	.00985	.02884	.00919	.98525	18.728*	.03622	C448-01S
83	Blank	.00562	-.00009	-.00024	.00043	.00003	-.00009	.00012	.07523	.00364	.00004	Blank
84	Blank	-.00516	.00009	.00037	.00000	-.00006	-.00038	.00002	-.00600	.00039	-.00003	Blank
85	CCV7	101.08	1.4850	1.0253	1.9752	1.4958	2.4593	1.9286	72.351	2.3302	.95178	CCV7
86	CCB7	.00904	.00029	.00022	.00045	.00023*	.00590	.00028	.01724	.00052	-.00002	CCB7
87	C839-01T	8.2528	.00031	.00037	.02753	.00009	.00676	.00022	28.736	.01086	.00130	C839-01T
88	C839-02T	.74620	-.02785	.00232	.05167	-.00005	.00159	.00008	24.384	4.0490	.01146	C839-02T
89	C840-01T	8.6163	.00022	.00075	.03311	.00006	.00455	.00015	32.292	.00915	.00130	C840-01T
90	C840-02T	.95780	-.06165	.00558	.16149	-.00009	.00046	.00132	8.3874	8.3577	.02996	C840-02T
91	C841-01T	2.2179	.00072	-.00009	.01407	-.00006	.00153	.00094	12.264	.00506	.00033	C841-01T
92	C841-02T	.70049	-.02485	.00346	.00747	-.00007	.00018	.00010	21.041	3.7559	.01615	C841-02T
93	C842-01T	6.9050	.00010	-.00036	.01667	.00003	.00418	.00000	21.993	.00874	.00119	C842-01T
94	C842-02T	.91594	-.04483	.00361	.01328	-.00007	.00096	.00028	5.9931	6.2136	.04526	C842-02T
95	Blank	-.00486	-.00042	.00024	-.00003	-.00008	-.00067	-.00001	-.00773	.00030	-.00004	Blank
96	Blank	-.00577	.00036	-.00088	.00003	-.00004	-.00075	.00001	.00214	.00011	.00003	Blank
97	CCV8	101.56	1.4812	1.0205	1.9801	1.4969	2.4618	1.9043	72.461	2.3158	.95257	CCVB
98	CCB8	.00649	.00059	.00108	.00039	.00017	.00547	.00022	.01207	.00029	.00002	CCB8
99	C437-01T	4.9967	.00293	-.00039	.02293	.00033	.00551	.00273	22.391	.00657	.00104	C437-01T
100	C437-02T	.88367	-.05148	.00473	.01931	-.00009	.00149	.00222	7.5557	7.5299	.02604	C437-02T
101	C438-01T	2.3466	-.00079	-.00046	.00484	-.00001	.00169	.00002	10.737	.00426	.00040	C438-01T
102	C438-02T	4.4514	-.02797	.00281	.06002	-.00002	.00694	.00024	174.67	3.5952	.00079	C438-02T
103	Blank	-.00409	-.00028	-.00132	.00004	-.00008	-.00052	-.00003	.03189	.00106	-.00010	Blank
104	Blank	-.00620	.00028	.00087	-.00007	-.00006	-.00052	.00003	-.00178	.00005	-.00014	Blank
105	CCV9	101.63	1.4782	1.0219	1.9760	1.4964	2.4638	1.9127	72.591	2.3194	.94875	CCV9
106	CCB9	.00105	.00106	-.00030	.00033	.00013	.00537	.00016	.01149	.00018	.00011	CCB9
IDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

ID8C010 Section 1 of 3

ID8C010 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00143	.00001	.00000	-.00002	.00000	.00001	-.00002	-.00050	-.00018	.00000	Blank
2	S20			.19740			.10935					S20
3	S21			1.9567			1.0840					S21
4	S22	.31919	.05835									S22
5	S23	3.0590	2.1943									S23
6	S24							.77325				S24
7	S25							7.7169				S25
8	S26								.75232	.30257		S26
9	S27								7.5703	3.2207		S27
10	S28					.11545						S28
11	S29					.44542						S29
12	S30				.02758						.00141	S30
13	S31				.13556						.00561	S31
14	ICV	2.5142	25.535	2.4418	.52867	56.366	2.3476	2.4717	2.4442	57.885	1.0208	ICV
15	ICB	.00039	.00427	.00010	.00062	.01258	.00076	.00055	.00036	.10145	.00007	ICB
16	ZZZZ	-9.1104*	8.3504	-.00749*	-1.6475*	-4.7216*	.43828	.02336	.00034	-142.06*	17.938	ZZZZ
17	B549-01W	.00376	.92333	.00017	.00509	2.8052	.01161	.02515	.00045	1.4064	-.00020	B549-01W
18	MRLC0901	.01000	.23875	.01010	.01075	.94838	.01011	.01002	.00998	.96689	.00955	MRLC0901
19	MRLC0902	.00978	.10916	.00296	.10037	.19251	.00491	.00916	.00997	.93149	.00932	MRLC0902
20	ICSA1	.00184	193.06	.00077	.00561	192.39	.00999	-.00187	.00131	-.03186	.00000	ICSA1
21	ICSAB1	.53865	190.61	.95152	1.1345	189.89	.46627	1.0275	.97397	77.413	1.0576	ICSAB1
22	CCV1	2.5433	25.461	2.4405	.52685	56.431	2.3841	2.5356	2.4551	58.000	1.0439	CCV1
23	CCB1	.00017	.00806	.00037	.00034	.00854	.00061	.00049	.00029	.07941	.00079	CCB1
24	IPC012WB	.00011	.00442	.00018	.00038	.00378	.00011	.00013	.00012	.04147	-.00086	IPC012WB
25	IPC012WL	.52183	5.3221	.50553	.00101*	46.886	.49018	.51048	.44635	47.919	.52949	IPC012WL
26	IPC012WC	.50189	5.1913	.49298	.00072*	45.517	.47528	.49470	.43224	46.754	.51073	IPC012WC
27	TXC002SB	.00069	.00536	.00023	.00038	.01492	.00022	.00041	.00005	.22209	.00217	TXC002SB
28	C414-01A	.54839	5.2752	.50262	.00415	87.855	.78907	.50990	.56374	80.077	.55873	C414-01A
29	C414-01	.02929	-.00135	.00007	.00288	41.006	.30827	.00042	.11020	29.261	.00090	C414-01
30	C414-01J	.00578	.00181	.00039	.00103	8.3087	.06278	.00009	.02193	5.6063	.00100	C414-01J
31	C414-01M	.57178	5.3250	.50139	.00341	89.179	.80083	.52972	.56243	81.280	.57735	C414-01M
32	C414-01S	.58130	5.3804	.50810	.00369	88.960	.80148	.53328	.56696	81.330	.58864	C414-01S
33	Blank	.00003	.00125	.00015	.00007	.01884	.00033	.00019	.00005	.23343	.00031	Blank
34	CCV2	2.5433	25.279	2.4468	.52976	56.217	2.3902	2.5309	2.4546	58.723	1.0435	CCV2
35	CCB2	.00012	.00520	.00056	.00027	.00817	.00047	.00054	.00036	.13006	-.00054	CCB2
36	C419-01	.00677	.67279	.00037	.00184	1.9785	.01600	.00107	.00834	1.9610	.00190	C419-01
37	B553-07W	.11447	17.466	.01243	.28025	2.2845	.30966	.00852	.02607	9.0204	.00556	B553-07W
38	B569-01T	.22155	1.4256	.00850	.07428	170.60	.06594	.01187	.05833	58.706	.00148	B569-01T
39	B569-02	.06499	.16093	.10377	.00082	.47073	.00138	.16010	.00164	.47435	.00137	B569-02
40	B569-02T	.01286	.02871	.02004	.00020	.06456	.00032	.02962	.00043	.15714	.00074	B569-02T
41	Blank	-.00011	.00117	.00044	.00031	.00090	.00003	.00008	.00010	.09152	-.00006	Blank
42	Blank	-.00017	-.00101	.00062	.00030	-.00312	.00006	.00004	.00019	.07821	-.00055	Blank
43	Blank	-.00008	.00016	.00021	.00033	.00336	.00005	.00007	.00010	.05288	-.00107	Blank
44	CCV3	2.4637	25.174	2.4403	.52663	56.722	2.3743	2.5046	2.4286	58.656	1.0069	CCV3
45	CCB3	.00016	.00346	.00039	.00051	.01328	.00062	.00048	.00033	.07696	-.00029	CCB3
46	IPC016SB	.00015	.00720	-.00005	.00042	.01565	.00092	.00023	.00032	.09936	.00013	IPC016SB
47	IPC016SL	.51002	5.2403	.49801	.00083*	47.075	.48742	.53030	.45051	47.295	.49740	IPC016SL
48	IPC016SC	.51433	5.2701	.49925	.00114*	47.205	.48861	.53247	.45314	48.035	.50013	IPC016SC
49	C050-11A	.53063	39.733	.58820	.01142	48.057	.55320	.52008	.48242	49.069	.49836	C050-11A
50	C050-11	.01499	35.848	.09283	.00997	1.3450	.06695	.00299	.02116	1.7898	.00170	C050-11
51	C050-11J	.00274	7.3509	.01859	.00176	.26604	.01343	.00062	.00427	.36635	.00023	C050-11J
52	C050-11M	.53846	43.989	.61393	.02161	49.854	.55788	.53115	.50210	51.145	.50121	C050-11M
53	C050-11S	.52928	44.896	.59595	.02070	48.857	.54780	.52854	.49512	49.932	.48745	C050-11S
54	C050-05	.33478	98.863	1.3707	.02832	32.019	1.1798	.00313	.26287	5.1021	.00078	C050-05

55	Blank	-.00015	.01255	.00058	-.00012	.00716	.00012	.00011	.00027	.03406	-.00089	Blank
56	CCV4	2.4792	25.182	2.4495	.52370	56.034	2.3635	2.5245	2.4462	58.521	1.0250	CCV4
57	CCB4	.00027	.00396	.00071	.00017	.00582	.00045	.00067	.00056	.06056	.00049	CCB4
58	C050-06	.00921	31.996	.01197	.00782	2.0138	.05373	.00252	.01811	2.7837	.00117	C050-06
59	C050-07	.00916	34.803	.01512	.00777	2.1216	.05895	.00261	.02192	2.8354	.00143	C050-07
60	C050-08	.01058	44.657	.03217	.01089	1.4129	.06763	.00342	.02231	2.0643	.00161	C050-08
61	C050-09	.00817	32.135	.02041	.00839	1.3934	.05417	.00235	.01698	1.9315	.00101	C050-09
62	C050-10	.01015	41.407	.02203	.00937	1.5838	.06491	.00293	.02090	1.9990	.00228	C050-10
63	B569-01I	.10740	.73725	.00442	.03620	86.052	.03315	.00588	.02944	28.162	.00048	B569-01I
64	Blank	-.00003	.00053	.00014	-.00003	.01404	.00005	.00008	.00016	.11996	-.00105	Blank
65	CCV5	2.4812	25.051	2.4529	.52481	55.521	2.3453	2.5428	2.4487	58.599	1.0257	CCV5
66	CCB5	.00021	.00411	.00059	.00082	.01213	.00033	.00057	.00050	.09311	.00023	CCB5
67	C066-01	.26447	136.95	1.1593	.03927	15.888	3.1954	.00444	.11285	6.9846	.00810	C066-01
68	C066-03	.40967	179.85	1.3282	.03347	14.845	4.2799	.00697	.12974	7.0039	.01014	C066-03
69	C066-10	.13278	141.11	1.8685	.03789	10.233	5.0312	.00371	.08417	5.5787	.00479	C066-10
70	C066-11	.08226	141.72	.35016	.04266	14.901	7.3268	.00332	.08274	5.3681	.00465	C066-11
71	C066-12	.07860	244.24	.37014	.03567	6.7460	8.4691	.01058	.09000	6.6585	.00605	C066-12
72	Blank	.00008	.11882	.00084	.00015	-.00241	.00272	.00010	.00016	.00052	-.00056	Blank
73	CCV6	2.4444	24.787	2.4343	.51758	54.774	2.3134	2.5318	2.4312	57.649	1.0154	CCV6
74	CCB6	.00049	.00774	.00054	.00030	.00645	.00042	.00068	.00061	.03980	.00042	CCB6
75	IPC015SB	.00080	.02379	.00080	.00000	.02123	.00103	.00043	.00077	.05128	.00008	IPC015SB
76	IPC015SL	.49277	5.1959	.50266	.00058*	46.385	.47616	.53458	.45140	47.156	.48630	IPC015SL
77	IPC015SC	.49706	5.2465	.50762	.00077*	46.745	.48010	.53978	.45553	47.569	.49037	IPC015SC
78	C448-01A	.93864	79.177	.50465	.00146	46.749	.61174	.65855	11.575	47.265	.50856	C448-01A
79	C448-01T	.44332	74.885	-.00212	.00039	-.00041	.13458	.14225	11.140	.05647	-.00064	C448-01T
80	C448-01J	.09080	15.544	-.00028	.00008	-.00280	.02792	.02851	2.2707	.01770	.00077	C448-01J
81	C448-01M	.45447	75.848	.00705	.00055	.88101	.14517	.15037	11.243	.86613	.00827	C448-01M
82	C448-01S	.46392	77.477	.00725	.00067	.90640	.14778	.14447	11.458	.90123	.00818	C448-01S
83	Blank	.00017	.01590	.00027	.00035	-.00035	.00015	.00016	.00280	-.00267	-.00106	Blank
84	Blank	-.00007	.00338	.00025	.00012	-.00082	.00013	-.00002	.00027	-.00087	-.00037	Blank
85	CCV7	2.4230	24.833	2.4485	.51514	54.528	2.2953	2.5313	2.4288	56.769	1.0129	CCV7
86	CCB7	.00014	.00219	.00038	.00015	.00786	.00033	.00061	.00051	.05684	.00050	CCB7
87	C839-01T	.00639	11.482	.01443	.00245	1.7023	.14757	.00049	.00624	.44141	.00100	C839-01T
88	C839-02T	.00112	.46597	11.423	.00051	.57931	.01000	.00581	.00050	.12847	.00147	C839-02T
89	C840-01T	.00955	12.587	.01729	.00179	1.7368	.16019	.00036	.00524	.36629	-.00067	C840-01T
90	C840-02T	.00213	.58295	16.423	.00130	.23049	.01730	.01133	.00060	.27235	-.00007	C840-02T
91	C841-01T	.00873	3.7452	.03905	.00097	.24822	.02290	-.00001	.00162	.16004	.00013	C841-01T
92	C841-02T	.00109	1.1517	9.4135	.00010	.16673	.00549	.00831	.00064	.10136	-.00110	C841-02T
93	C842-01T	.01906	14.444	.00822	.00087	1.1259	.08556	.00060	.00589	.17309	-.00064	C842-01T
94	C842-02T	.00337	2.4479	13.284	.00107	.26580	.01663	.01006	.00088	.57244	-.00030	C842-02T
95	Blank	-.00011	.00021	.00080	.00015	-.00905	.00008	.00009	.00016	-.02468	-.00064	Blank
96	Blank	-.00024	.00109	.00020	.00058	-.00063	.00004	.00004	.00029	-.01898	-.00059	Blank
97	CCV8	2.4335	24.858	2.4400	.51701	54.554	2.2915	2.5450	2.4310	57.325	1.0056	CCV8
98	CCB8	.00031	.00256	.00048	.00055	.01487	.00033	.00047	.00046	.02694	.00028	CCB8
99	C437-01T	.01362	5.8794	.04670	.00178	.66505	.06078	-.00001	.00361	.54277	-.00014	C437-01T
100	C437-02T	.00259	.70859	16.931	.00097	.15207	.01318	.00936	.00104	.09978	.00116	C437-02T
101	C438-01T	.00240	3.7117	.00329	.00078	.39992	.03758	.00033	.00184	.03743	-.00039	C438-01T
102	C438-02T	.00788	4.6297	15.903	.00513	5.4560	.06820	.00138	.00305	1.1564	-.00089	C438-02T
103	Blank	-.00017	-.00052	.00254	.00032	-.00362	-.00002	.00000	.00006	-.01460	-.00006	Blank
104	Blank	-.00016	-.00029	.00036	-.00036	-.00488	-.00005	-.00001	.00006	-.00541	-.00098	Blank
105	CCV9	2.4323	24.919	2.4321	.51533	54.768	2.2906	2.5353	2.4272	57.306	1.0009	CCV9
106	CCB9	.00010	.00002	.00101	.00053	.01273	.00039	.00048	.00032	.02614	.00036	CCB9
IDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00011	.00117	-.00017	-.00001	.00012	.00000	-.00013	.00094	Blank
2	S20									S20
3	S21									S21
4	S22							.14567		S22
5	S23							1.4524		S23
6	S24		1.0423							S24
7	S25		5.9671							S25
8	S26									S26
9	S27									S27
10	S28				.00636					S28
11	S29				.05782					S29
12	S30	.04100		.12573		.02665	.01601		.59536	S30
13	S31	.20081		.61760		.13066	.07936		5.7877	S31
14	ICV	.50176	64.539	.48939	2.2903	.49503	.49752	1.4817	2.6609	ICV
15	ICB	.00005	.06092	.00020	.00056	.00007	.00036	.00021	-.00037	ICB
16	ZZZZ	-5.6996*	59.019	-1.1061*	16.860	.00430	1.4259	.78280	.02096	ZZZZ
17	B549-01W	-.00011	145.27	.11656	-.00076	.00020	.00074	.00330	.01955	B549-01W
18	MRLC0901	.01001	1.1441	.01023	.01054	-.00013	.01066	.01014	.02207	MRLC0901
19	MRLC0902	.00967	.55140	.00989	.01040	-.00031*	.01008	.00978	.01109	MRLC0902
20	ICSA1	.00007	.02012	-.00417	.00237	.00166	.00625	.00189	.00366	ICSA1
21	ICSAB1	1.1049	84.910	.49894	.84279	.99693	.98266	.49611	1.0745	ICSAB1
22	CCV1	.50459	64.322	.48979	2.3499	.50518	.49548	1.5007	2.6993	CCV1
23	CCB1	.00003	.07040	.00016	.00031	-.00008	.00017	.00016	.00215	CCB1
24	IPC012WB	-.00007	.03700	.00017	-.00038	-.00042	.00004	.00004	.00195	IPC012WB
25	IPC012WL	.51136	52.919	.47566	.49867	.49810	.50835	.51156	.54873	IPC012WL
26	IPC012WC	.49611	51.685	.46334	.48505	.48599	.49480	.49888	.53668	IPC012WC
27	TXC002SB	.00011	337.04*	.00166	-.00126	.00052	.00021	-.00001	.00596	TXC002SB
28	C414-01A	.52334	405.17	.98749	.45620	.49217	.49539	.51395	.69129	C414-01A
29	C414-01	.00000	359.10	.52988	-.00173	.00055	.00178	-.00020	.12250	C414-01
30	C414-01J	.00006	73.419	.10687	-.00096	.00013	.00044	-.00003	.02391	C414-01J
31	C414-01M	.55282	414.60	1.0194	.46038	.50178	.51246	.51886	.68886	C414-01M
32	C414-01S	.56260	413.52	1.0192	.47136	.50451	.51544	.52431	.69574	C414-01S
33	Blank	.00022	.39640	.00015	.00022	-.00037	.00012	.00016	.00566	Blank
34	CCV2	.50466	64.839	.49464	2.3339	.50602	.49428	1.4955	2.7041	CCV2
35	CCB2	.00007	.17143*	.00021	.00031	.00032	.00020	.00017	.00223	CCB2
36	C419-01	.00000	321.34	.03706	-.00182	.00092	.00034	.00031	.95041	C419-01
37	B553-07W	.00031	363.82	.02010	-.00434	.00322	.00174	.00126	7.8018	B553-07W
38	B569-01T	.00540	1316.1*	1.0731	-.00167	.00224	.00179	-.00027	40.659*	B569-01T
39	B569-02	.00244	3.0492	.00212	-.00055	.05096	.00048	.00041	1.4085	B569-02
40	B569-02T	.00040	.48627	.00032	-.00022	.00977	.00031	.00004	.26629	B569-02T
41	Blank	-.00006	.23026	.00011	.00021	-.00051	.00028	.00003	.00310	Blank
42	Blank	-.00002	.17889	.00005	-.00026	-.00069	-.00016	.00001	.00181	Blank
43	Blank	.00006	.14341	.00004	-.00029	-.00056	.00022	-.00009	.00200	Blank
44	CCV3	.50122	64.740	.48736	2.2939	.50834	.48880	1.4872	2.7070	CCV3
45	CCB3	.00020	.14673*	.00014	.00015	-.00049	.00033	.00012	.00222	CCB3
46	IPC016SB	-.00002	.15263	.00033	-.00107	.04188	.00068	.00021	.00274	IPC016SB
47	IPC016SL	.48718	52.481	.46907	.47273	.53693	.50443	.51243	.55798	IPC016SL
48	IPC016SC	.49095	53.262	.47052	.47423	.54027	.50442	.51518	.56007	IPC016SC
49	C050-11A	.47421	52.862	.48863	.46405	.52761	1.7820	.60525	.57525	C050-11A
50	C050-11	.00003	.52033	.02254	-.00031	.04227	1.3104	.09670	.01616	C050-11
51	C050-11J	-.00006	.14767	.00452	.00010	.00805	.26154	.01929	.00273	C050-11J
52	C050-11M	.49962	55.332	.50628	.46789	.55365	1.9522	.61960	.59119	C050-11M
53	C050-11S	.49230	53.900	.50094	.45665	.55096	1.9209	.61512	.58598	C050-11S
54	C050-05	-.00036	7.6576	.29672	.00039	.04964	2.3540	.26635	.23868	C050-05

55	Blank	.00006	.03518	.00010	.00027	-.00002	.00056	.00001	.00152	Blank
56	CCV4	.49986	64.453	.48925	2.3047	.51218	.49126	1.4881	2.7132	CCV4
57	CCB4	.00005	.06763	.00013	.00039	-.00022	.00050	.00034	.00230	CCB4
58	C050-06	-.00011	.49833	.01508	.00022	.04306	1.0808	.07738	.02210	C050-06
59	C050-07	-.00014	.41850	.02092	-.00051	.04413	1.2138	.08568	.02046	C050-07
60	C050-08	-.00030	.44730	.02140	.00003	.04475	1.6171	.12430	.01845	C050-08
61	C050-09	-.00019	.53540	.01585	-.00028	.04494	1.1468	.08731	.01445	C050-09
62	C050-10	-.00035	.50742	.01259	-.00002	.04584	1.3927	.11217	.01304	C050-10
63	B569-01I	.00240	698.46*	.52672	-.00079	.00110	.00108	-.00018	21.155	B569-01I
64	Blank	.00006	.46432	.00016	-.00034	-.00046	-.00016	.00010	.00507	Blank
65	CCV5	.49736	64.557	.48879	2.2861	.51839	.49071	1.4871	2.7075	CCV5
66	CCB5	.00010	.15121*	.00007	.00058	-.00056	-.00003	.00018	.00379	CCB5
67	C066-01	-.00045	1.1962	.10037	-.00006	.05129	.92884	.27984	32.397	C066-01
68	C066-03	-.00029	.68105	.08938	.00009	.04941	1.0249	.32472	53.682*	C066-03
69	C066-10	-.00055	.85787	.12052	-.00068	.05237	.73309	.29882	20.628	C066-10
70	C066-11	-.00055	1.1683	.15862	-.00124	.04852	.70092	.37150	5.8504	C066-11
71	C066-12	-.00060	.43988	.08914	.00019	.05213	1.4770	.44210	2.9877	C066-12
72	Blank	.00005	.00548	.00012	-.00007	-.00021	.00066	.00025	.00707	Blank
73	CCV6	.49169	63.550	.48267	2.2728	.51566	.48537	1.4731	2.6848	CCV6
74	CCB6	.00021	.04046	.00016	.00065	-.00015	.00026	.00026	.00968	CCB6
75	IPC015SB	.00000	.05200	.00032	-.00084	.04314	.00071	.00063	.00583	IPC015SB
76	IPC015SL	.47579	52.233	.46017	.46245	.55657	.49949	.51025	.56165	IPC015SL
77	IPC015SC	.48302	52.632	.46482	.46721	.56414	.50435	.51415	.56868	IPC015SC
78	C448-01A	.48030	52.122	.45675	.48593	.51650	.50806	.56631	.54226	C448-01A
79	C448-01T	.00038	.04426	.00019	.00722	.00923	.00957	.04871	-.01332*	C448-01T
80	C448-01J	-.00002	.01219	.00015	.00158	.00159	.00188	.01011	-.00311	C448-01J
81	C448-01M	.00958	.98979	.00924	.01582	.01829	.01975	.05879	-.00426	C448-01M
82	C448-01S	.00990	1.0163	.00955	.01650	.01902	.02019	.06025	-.00447	C448-01S
83	Blank	-.00002	.00260	.00013	-.00010	-.00055	.00007	.00017	.00338	Blank
84	Blank	.00002	-.00821	.00004	.00023	-.00061	.00028	-.00006	-.00019	Blank
85	CCV7	.48721	62.885	.47914	2.2684	.51925	.48602	1.4742	2.6917	CCV7
86	CCB7	.00015	.03489	.00014	.00016	-.00041	.00042	.00028	.00017	CCB7
87	C839-01T	.00031	.15208	.01467	.00014	.00533	.43161	.01166	.15687	C839-01T
88	C839-02T	.00013	.17313	.01930	.00147	.00097	.08154	.00215	.05051	C839-02T
89	C840-01T	.00059	.13599	.01626	-.00009	.00479	.44334	.01152	.29617	C840-01T
90	C840-02T	.00013	.19015	.00666	.00259	.00103	.27165	.00574	3.9346	C840-02T
91	C841-01T	-.00006	.03986	.00722	.00019	.01199	.35597	.00330	4.7358	C841-01T
92	C841-02T	.00031	.19847	.00736	.00150	.00159	.06013	.00234	.01952	C841-02T
93	C842-01T	.00031	.16444	.01237	.00004	.00549	.56831	.00811	.13367	C842-01T
94	C842-02T	.00019	.20957	.00406	.00178	.00126	.09129	.00312	1.8418	C842-02T
95	Blank	.00001	-.00805	-.00001	-.00011	-.00047	.00013	.00000	-.00026	Blank
96	Blank	.00001	-.00858	.00009	-.00038	-.00027	.00010	.00005	.00043	Blank
97	CCV8	.48621	63.348	.47935	2.2538	.52291	.48556	1.4779	2.6839	CCV8
98	CCB8	.00018	.02490	.00011	.00033	.00000	.00040	.00026	.00009	CCB8
99	C437-01T	.00030	.10453	.01302	.00028	.01540	.63043	.00705	13.790	C437-01T
100	C437-02T	.00014	.11692	.00395	.00253	.00096	.11778	.00340	1.9232	C437-02T
101	C438-01T	-.00006	.03356	.00428	-.00028	.00431	.15438	.00347	.01891	C438-01T
102	C438-02T	.00014	1.8937	.14008	.00061	.00819	.16362	.00919	.02912	C438-02T
103	Blank	-.00002	-.00814	.00005	-.00029	-.00044	.00012	-.00013	-.00014	Blank
104	Blank	.00011	-.01167	.00004	-.00043	-.00033	.00036	.00009	-.00014	Blank
105	CCV9	.48667	63.191	.47593	2.2557	.51895	.48453	1.4813	2.6832	CCV9
106	CCB9	.00010	.02237	.00009	.00006	-.00027	.00031	.00025	.00008	CCB9
IDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

1087

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Micropipet ID: ICP-07, 538480308
11C066: dried & sieved

Book #: EIP-099
Batch: IP016S
Matrix: Soil
Digestor ID: C

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90/91 °C		90/91 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-302	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SM5B-02-147	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 101615632

Prepared By: HF
Standard Added By: HF Witnessed By: MT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPC016S01	IPC016SB	1	g	3/8/11 14:36	100	1	100	1	
11IPC016S02	IPC016SL	1	g	3/8/11 14:36	100	1	100	1	
11IPC016S03	IPC016SC	1	g	3/8/11 14:36	100	1	100	1	
11IPC016S04	B569-02	1.05	g	3/8/11 14:38	100	1	100	0.952	
11IPC016S05	C066-01	1.1	g	3/8/11 14:40	100	1	100	0.909	✓
11IPC016S06	C066-03	1.17	g	3/8/11 14:41	100	1	100	0.855	✓
11IPC016S07	C066-10	1.09	g	3/8/11 14:41	100	1	100	0.917	✓
11IPC016S08	C066-11	1.02	g	3/8/11 14:42	100	1	100	0.98	✓
11IPC016S09	C066-12	1.44	g	3/8/11 14:43	100	1	100	0.694	✓
11IPC016S10	C050-05	1.2	g	3/8/11 14:44	100	1	100	0.833	
11IPC016S11	C050-06	1.01	g	3/8/11 14:45	100	1	100	0.99	
11IPC016S12	C050-07	1.1	g	3/8/11 14:46	100	1	100	0.909	
11IPC016S13	C050-08	1.09	g	3/8/11 14:47	100	1	100	0.917	
11IPC016S14	C050-09	1.02	g	3/8/11 14:48	100	1	100	0.98	
11IPC016S15	C050-10	1.1	g	3/8/11 14:49	100	1	100	0.909	
11IPC016S16	C050-11	1.05	g	3/8/11 14:51	100	1	100	0.952	✓
11IPC016S17	C050-11M	1.02	g	3/8/11 14:51	100	1	100	0.98	
11IPC016S18	C050-11S	1.09	g	3/8/11 14:52	100	1	100	0.917	

HF 3/8/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 3/8/11 15:57 Prepared By: HF

☑ Digestion Ended @ 3/8/11 17:57 Checked By: TH

Comments: Date 3/8/11

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK 0U4**

SDG: **11C074**

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GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7051 7052 – 7080
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-14-2011
EMAX Batch No.: 11C074

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4_REVISION_1

Enclosed is the Laboratory report for samples received on 03/08/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB215-02A-01	C074-01	03/02/11	SOIL	CADMIUM
CB215-02A-02	C074-02	03/02/11	SOIL	CADMIUM
CP094-S1-02-01	C074-03	03/02/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP094-S1-02-02	C074-04	03/02/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP094-S1-03-01	C074-05	03/02/11	SOIL	CADMIUM
CP094-S1-03-02	C074-06	03/02/11	SOIL	CADMIUM
CP094-S1-04-01	C074-07	03/02/11	SOIL	CADMIUM
CP094-S1-04-02	C074-08	03/02/11	SOIL	CADMIUM
CP094-S1-04-02FD	C074-09	03/02/11	SOIL	CADMIUM
CP094-S1-05-01	C074-10	03/02/11	SOIL	CADMIUM
CP094-S1-05-02	C074-11	03/02/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP094-S2-01-01	C074-12	03/03/11	SOIL	LEAD
				METALS BY ICP

Revised Report

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS SIEVE AND OVEN DRY SOIL
CP094-S2-01-02	C074-13	03/03/11	SOIL	CADMIUM
CP094-S2-02-01	C074-14	03/03/11	SOIL	CADMIUM
CP094-S2-02-02	C074-15	03/03/11	SOIL	CADMIUM
CP094-S2-03-01	C074-16	03/03/11	SOIL	CADMIUM
CP094-S2-03-01FD	C074-17	03/03/11	SOIL	CADMIUM
CP094-S2-03-02	C074-18	03/03/11	SOIL	CADMIUM
CP094-S2-04-01	C074-19	03/03/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP094-S2-04-02	C074-20	03/03/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

for

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Chain of Custody Record

11C074

CH1002

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client	Project Manager		Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante		March 7, 2011	1 of 2
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401		
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**	
Project Name Tar Creek OU4	**Carrier/Waybill Number** 796836595399	**CH2M HILL Project Number:** 413831.CV.01		
Samplers: SP/RC				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb-sieved	Analysis: Zn	Analysis: Cd					Comments
1	CB215-07-01	March 2, 2011	9:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
2	CB215-07-02	March 2, 2011	9:05	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
3	CP094-S1-02-01	March 2, 2011	13:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
4	**CP094-S1-02-02**	**March 2, 2011**	**13:40**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	**x**	**x**	**x**					**Sieved lead sample**
5	CP094-S1-03-01	March 2, 2011	13:55	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
6	CP094-S1-03-02	March 2, 2011	14:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
7	CP094-S1-04-01	March 2, 2011	14:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
8	CP094-S1-04-02	March 2, 2011	14:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
9	CP094-S1-04-02FD	March 2, 2011	14:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
10	CP094-S1-05-01	March 2, 2011	14:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
11	CP094-S1-05-02	March 2, 2011	14:55	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
12	CP094-S2-01-01	March 3, 2011	9:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					Sieved lead sample
13	CP094-S2-01-02	March 3, 2011	9:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
14	CP094-S2-02-01	March 3, 2011	9:55	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
15	CP094-S2-02-02	March 3, 2011	10:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only
16	CP094-S2-03-01	March 3, 2011	10:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					Cadium only

Turnaround Time: 7 Days **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T= 3.9°C

1. Relinquished By Kui Tan	**Date:** March 7, 2011	**Time:** 18:00	**1. Received By:** FedEX	**Date:**	**Time:**
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:** 3/8/11	0930

Comments
Sieve lead samples with #60 sieve: Analyze bolded samples under an expedited 3 day turnaround time (TAT). All samples shall also be analyzed for percent moisture content.

002

Chain of Custody Record

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

11C074

Client	Project Manager		Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante		March 7, 2011	2 of 2
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401		
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**	
Project Name Tar Creek OU4	**Carrier/Waybill Number** 796836595399	**CH2M HILL Project Number:** 413831.CV.01		
Samplers: SP/RC				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb - sieved	Zn	Cd				Comments
17	CP094-S2-03-01FD	March 3, 2011	10:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
18	CP094-S2-03-02	March 3, 2011	10:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
19	CP094-S2-04-01	March 3, 2011	10:50	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x				Sieved lead sample
20	CP094-S2-04-02	March 3, 2011	10:55	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only

Turnaround Time 7 *Days* **UNLESS BOLDED, 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Kui Tan	**Date:** March 7, 2011	**Time:** 18:00	**1. Received By:** FedEX	**Date:**	**Time:**
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:** 3/8/11	0930

Comments
Sieve lead samples with #60 sieve: Analyze bolded samples under an expedited 3 day turnaround time (TAT). All samples shall also be analyzed for percent moisture content.

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 11C074
☐ Client Delivery		Recepient L-LUNA
☐ Third Party FEDEX	796836591399	Date 3-8-11
		Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☐ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 3.9 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 3/8/11

SRF [signature] Date 3/8/11

PM LP for YC Date 3/8/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	_____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

From: (281) 721-8534
Kui Tan
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11101012220225

Ship Date: 06MAR11
ActWgt: 30.0 LB ,
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889

BILL SENDER

Ref # 413831.CV.01/AAB00103032
Invoice #
PO #
Dept #

110074

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

TUE - 08 MAR A1
STANDARD OVERNIGHT

TRK# 0201 7968 3659 5399

A7 AVXA

90501
CA-US
LAX

50DG2/BDD9/7EFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11C074

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C074

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of twenty (20) soil samples were received on 03/08/11 for Metals by ICP analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC017SX/Y were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for C074-20G/H were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C074
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC017SQ	1	NA	03/10/1114:16	03/09/1112:39	ID8C011073	ID8C011071	IPC017S	Method Blank
LCS1S	IPC017SX	1	NA	03/10/1114:19	03/09/1112:39	ID8C011074	ID8C011071	IPC017S	Lab Control Sample (LCS)
LCD1S	IPC017SY	1	NA	03/10/1114:21	03/09/1112:39	ID8C011075	ID8C011071	IPC017S	LCS Duplicate
CP094-S2-04-02AS	C074-20A	0.896	18.8	03/10/1114:24	03/09/1112:39	ID8C011076	ID8C011071	IPC017S	Analytical Spike Sample
CP094-S2-04-02	C074-20W	0.896	18.8	03/10/1114:27	03/09/1112:39	ID8C011077	ID8C011071	IPC017S	Field Sample
CP094-S2-04-02DL	C074-20J	4.48	18.8	03/10/1114:29	03/09/1112:39	ID8C011078	ID8C011071	IPC017S	Diluted Sample
CP094-S1-02-01	C074-03W	0.902	22.5	03/10/1114:51	03/09/1112:39	ID8C011086	ID8C011083	IPC017S	Field Sample
CP094-S1-02-02	C074-04W	0.951	21.2	03/10/1114:54	03/09/1112:39	ID8C011087	ID8C011083	IPC017S	Field Sample
CP094-S1-05-02	C074-11	0.756	22.2	03/10/1113:35	03/09/1112:39	ID8C011061	ID8C011059	IPC017S	Field Sample
CP094-S2-01-01	C074-12	0.847	18.2	03/10/1113:38	03/09/1112:39	ID8C011062	ID8C011059	IPC017S	Field Sample
CP094-S2-04-01	C074-19T	7.91	17.6	03/10/1115:21	03/09/1112:39	ID8C011097	ID8C011095	IPC017S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 13:35
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-02-01	Date Analyzed:	03/10/11 14:51
Lab Samp ID:	C074-03W	Dilution Factor:	0.902
Lab File ID:	ID8C011086	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	22.5
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.09	1.16	0.233
Zinc	281	2.33	1.16

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 13:40
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-02-02	Date Analyzed:	03/10/11 14:54
Lab Samp ID:	C074-04W	Dilution Factor:	0.951
Lab File ID:	ID8C011087	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	21.2
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.595J	1.21	0.241
Zinc	191	2.41	1.21

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 14:55
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-05-02	Date Analyzed:	03/10/11 13:35
Lab Samp ID:	C074-11	Dilution Factor:	0.756
Lab File ID:	ID8C011061	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	22.2
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.23	0.972	0.194
Zinc	616	1.94	0.972

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 09:30
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-01-01	Date Analyzed:	03/10/11 13:38
Lab Samp ID:	C074-12	Dilution Factor:	0.847
Lab File ID:	ID8C011062	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	18.2
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	6.61	1.04	0.207
Zinc	1390	2.07	1.04

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:50
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-04-01	Date Analyzed:	03/10/11 15:21
Lab Samp ID:	C074-19T	Dilution Factor:	7.91
Lab File ID:	ID8C011097	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	17.6
Calib. Ref.:	ID8C011095	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	66.0	9.60	1.92
Zinc	5250	19.2	9.60

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	MBLK1S	Date Analyzed:	03/10/11 14:16
Lab Samp ID:	IPC017SQ	Dilution Factor:	1
Lab File ID:	ID8C011073	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	NA
Calib. Ref.:	ID8C011071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C074
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC017SQ	IPC017SX	IPC017SY		
LAB FILE ID:	ID8C011073	ID8C011074	ID8C011075		
DATIME EXTRCTD:	03/09/1112:39	03/09/1112:39	03/09/1112:39	DATE COLLECTED:	NA
DATIME ANALYZD:	03/10/1114:16	03/10/1114:19	03/10/1114:21	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC017S	IPC017S	IPC017S		
CALIB. REF:	ID8C011071	ID8C011071	ID8C011071		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.4	99	50	49.1	98	1	80-120	20
Zinc	ND	50	54.2	108	50	54	108	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C074
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.8
DILUTION FACTOR:	0.896	4.48		
SAMPLE ID:	CP094-S2-04-02	CP094-S2-04-02DL		
EMAX SAMP ID:	C074-20W	C074-20J		
LAB FILE ID:	ID8C011077	ID8C011078		
DATE EXTRACTED:	03/09/1112:39	03/09/1112:39	DATE COLLECTED:	03/03/11 10:55
DATE ANALYZED:	03/10/1114:27	03/10/1114:29	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC017S	IPC017S		
CALIB. REF:	ID8C011071	ID8C011071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	1.11	ND	NA	10
Zinc	158	152	4	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C074
METHOD: METHOD 3050B/6010B

==========

MATRIX:	SOIL		% MOISTURE:	18.8
DILTN FACTR:	0.896	0.896		
SAMPLE ID:	CP094-S2-04-02			
CONTROL NO.:	C074-20W	C074-20A		
LAB FILE ID:	ID8C011077	ID8C011076		
DATIME EXTRCTD:	03/09/1112:39	03/09/1112:39	DATE COLLECTED:	03/03/11 10:55
DATIME ANALYZD:	03/10/1114:27	03/10/1114:24	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC017S	IPC017S		
CALIB. REF:	ID8C011071	ID8C011071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	1.11	55.2	53.9	96	75-125
Zinc	158	55.2	215	103	75-125

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C074
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC017SQ	1	NA	03/10/1114:16	03/09/1112:39	ID8C011073	ID8C011071	IPC017S	Method Blank
LCS1S	IPC017SX	1	NA	03/10/1114:19	03/09/1112:39	ID8C011074	ID8C011071	IPC017S	Lab Control Sample (LCS)
LCD1S	IPC017SY	1	NA	03/10/1114:21	03/09/1112:39	ID8C011075	ID8C011071	IPC017S	LCS Duplicate
CP094-S2-04-02AS	C074-20A	0.896	18.8	03/10/1114:24	03/09/1112:39	ID8C011076	ID8C011071	IPC017S	Analytical Spike Sample
CP094-S2-04-02	C074-20W	0.896	18.8	03/10/1114:27	03/09/1112:39	ID8C011077	ID8C011071	IPC017S	Field Sample
CP094-S2-04-02DL	C074-20J	4.48	18.8	03/10/1114:29	03/09/1112:39	ID8C011078	ID8C011071	IPC017S	Diluted Sample
CP094-S2-04-02MS	C074-20G	0.867	18.8	03/10/1114:32	03/09/1112:39	ID8C011079	ID8C011071	IPC017S	Matrix Spike Sample (MS)
CP094-S2-04-02MSD	C074-20H	0.958	18.8	03/10/1114:35	03/09/1112:39	ID8C011080	ID8C011071	IPC017S	MS Duplicate (MSD)
CB215-02A-01	C074-01W	0.877	16.1	03/10/1114:37	03/09/1112:39	ID8C011081	ID8C011071	IPC017S	Field Sample
CB215-02A-02	C074-02W	0.804	14.7	03/10/1114:49	03/09/1112:39	ID8C011085	ID8C011083	IPC017S	Field Sample
CP094-S1-03-01	C074-05W	0.864	19.5	03/10/1114:57	03/09/1112:39	ID8C011088	ID8C011083	IPC017S	Field Sample
CP094-S1-03-02	C074-06W	0.743	18.0	03/10/1115:00	03/09/1112:39	ID8C011089	ID8C011083	IPC017S	Field Sample
CP094-S1-04-01	C074-07W	0.818	19.8	03/10/1115:02	03/09/1112:39	ID8C011090	ID8C011083	IPC017S	Field Sample
CP094-S1-04-02	C074-08W	0.894	19.3	03/10/1115:05	03/09/1112:39	ID8C011091	ID8C011083	IPC017S	Field Sample
CP094-S1-04-02FD	C074-09W	0.710	17.9	03/10/1115:08	03/09/1112:39	ID8C011092	ID8C011083	IPC017S	Field Sample
CP094-S1-05-01	C074-10W	0.726	23.3	03/10/1115:10	03/09/1112:39	ID8C011093	ID8C011083	IPC017S	Field Sample
CP094-S2-01-02	C074-13	0.792	16.4	03/10/1113:40	03/09/1112:39	ID8C011063	ID8C011059	IPC017S	Field Sample
CP094-S2-02-01	C074-14	0.816	18.0	03/10/1113:43	03/09/1112:39	ID8C011064	ID8C011059	IPC017S	Field Sample
CP094-S2-02-02	C074-15	0.867	16.4	03/10/1113:46	03/09/1112:39	ID8C011065	ID8C011059	IPC017S	Field Sample
CP094-S2-03-01	C074-16	0.775	20.5	03/10/1113:49	03/09/1112:39	ID8C011066	ID8C011059	IPC017S	Field Sample
CP094-S2-03-01FD	C074-17	0.819	20.4	03/10/1113:52	03/09/1112:39	ID8C011067	ID8C011059	IPC017S	Field Sample
CP094-S2-03-02	C074-18	0.739	18.7	03/10/1113:54	03/09/1112:39	ID8C011068	ID8C011059	IPC017S	Field Sample

FN - Filename
% Moist - Percent Moisture

Revised Report

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 09:00
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CB215-02A-01	Date Analyzed:	03/10/11 14:37
Lab Samp ID:	C074-01W	Dilution Factor:	0.877
Lab File ID:	ID8C011081	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	16.1
Calib. Ref.:	ID8C011071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.505J	1.05	0.209

Revised Report

7013

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 09:05
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CB215-02A-02	Date Analyzed:	03/10/11 14:49
Lab Samp ID:	C074-02W	Dilution Factor:	0.804
Lab File ID:	ID8C011085	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	14.7
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	0.943	0.189

Revised Report

7014

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 13:55
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-03-01	Date Analyzed:	03/10/11 14:57
Lab Samp ID:	C074-05W	Dilution Factor:	0.864
Lab File ID:	ID8C011088	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	19.5
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.80	1.07	0.215

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 14:00
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-03-02	Date Analyzed:	03/10/11 15:00
Lab Samp ID:	C074-06W	Dilution Factor:	0.743
Lab File ID:	ID8C011089	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	18.0
Calib. Ref.:	ID8CD11083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.46	0.906	0.181

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 14:30
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-04-01	Date Analyzed:	03/10/11 15:02
Lab Samp ID:	C074-07W	Dilution Factor:	0.818
Lab File ID:	ID8C011090	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	19.8
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.35	1.02	0.204

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 14:35
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-04-02	Date Analyzed:	03/10/11 15:05
Lab Samp ID:	C074-08W	Dilution Factor:	0.894
Lab File ID:	ID8C011091	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	19.3
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.02J	1.11	0.222

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 14:35
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-04-02FD	Date Analyzed:	03/10/11 15:08
Lab Samp ID:	C074-09W	Dilution Factor:	0.710
Lab File ID:	ID8C011092	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	17.9
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.65	0.865	0.173

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 14:50
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S1-05-01	Date Analyzed:	03/10/11 15:10
Lab Samp ID:	C074-10W	Dilution Factor:	0.726
Lab File ID:	ID8C011093	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	23.3
Calib. Ref.:	ID8C011083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.93	0.947	0.189

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 09:35
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-01-02	Date Analyzed:	03/10/11 13:40
Lab Samp ID:	C074-13	Dilution Factor:	0.792
Lab File ID:	ID8C011063	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	16.4
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	26.0	0.947	0.189

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 09:55
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-02-01	Date Analyzed:	03/10/11 13:43
Lab Samp ID:	C074-14	Dilution Factor:	0.816
Lab File ID:	ID8C011064	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	18.0
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.09	0.995	0.199

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:00
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-02-02	Date Analyzed:	03/10/11 13:46
Lab Samp ID:	C074-15	Dilution Factor:	0.867
Lab File ID:	ID8C011065	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	16.4
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.533J	1.04	0.207

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:30
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-03-01	Date Analyzed:	03/10/11 13:49
Lab Samp ID:	C074-16	Dilution Factor:	0.775
Lab File ID:	ID8C011066	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	20.5
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.02	0.975	0.195

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:30
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-03-01FD	Date Analyzed:	03/10/11 13:52
Lab Samp ID:	C074-17	Dilution Factor:	0.819
Lab File ID:	ID8C011067	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	20.4
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.923J	1.03	0.206

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:35
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-03-02	Date Analyzed:	03/10/11 13:54
Lab Samp ID:	C074-18	Dilution Factor:	0.739
Lab File ID:	ID8C011068	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	18.7
Calib. Ref.:	ID8C011059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.546J	0.909	0.182

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:55
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	CP094-S2-04-02	Date Analyzed:	03/10/11 14:27
Lab Samp ID:	C074-20W	Dilution Factor:	0.896
Lab File ID:	ID8C011077	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	18.8
Calib. Ref.:	ID8C011071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.11	1.10	0.221

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C074	Date Extracted:	03/09/11 12:39
Sample ID:	MBLK1S	Date Analyzed:	03/10/11 14:16
Lab Samp ID:	IPC017SQ	Dilution Factor:	1
Lab File ID:	ID8C011073	Matrix :	SOIL
Ext Btch ID:	IPC017S	% Moisture :	NA
Calib. Ref.:	ID8C011071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C074
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC017SQ	IPC017SX	IPC017SY		
LAB FILE ID:	ID8C011073	ID8C011074	ID8C011075		
DATIME EXTRCTD:	03/09/1112:39	03/09/1112:39	03/09/1112:39	DATE COLLECTED:	NA
DATIME ANALYZD:	03/10/1114:16	03/10/1114:19	03/10/1114:21	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC017S	IPC017S	IPC017S		
CALIB. REF:	ID8C011071	ID8C011071	ID8C011071		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.4	99	50	49.1	98	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C074
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	18.8
DILTN FACTR:	0.896	0.867	0.958		
SAMPLE ID:	CP094-S2-04-02				
CONTROL NO.:	C074-20W	C074-20G	C074-20H		
LAB FILE ID:	ID8C011077	ID8C011079	ID8C011080		
DATIME EXTRCTD:	03/09/1112:39	03/09/1112:39	03/09/1112:39	DATE COLLECTED:	03/03/11 10:55
DATIME ANALYZD:	03/10/1114:27	03/10/1114:32	03/10/1114:35	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC017S	IPC017S	IPC017S		
CALIB. REF:	ID8C011071	ID8C011071	ID8C011071		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	1.11	53.4	51.8	95	59	56.1	93	8	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C074
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.8
DILUTION FACTOR:	0.896	4.48		
SAMPLE ID:	CP094-S2-04-02	CP094-S2-04-02DL		
EMAX SAMP ID:	C074-20W	C074-20J		
LAB FILE ID:	ID8C011077	ID8C011078		
DATE EXTRACTED:	03/09/1112:39	03/09/1112:39	DATE COLLECTED:	03/03/11 10:55
DATE ANALYZED:	03/10/1114:27	03/10/1114:29	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC017S	IPC017S		
CALIB. REF:	ID8C011071	ID8C011071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	1.11	ND	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C074
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	18.8
DILTN FACTR:	0.896	0.896		
SAMPLE ID:	CP094-S2-04-02			
CONTROL NO.:	C074-20W	C074-20A		
LAB FILE ID:	ID8C011077	ID8C011076		
DATIME EXTRCTD:	03/09/1112:39	03/09/1112:39	DATE COLLECTED:	03/03/11 10:55
DATIME ANALYZD:	03/10/1114:27	03/10/1114:24	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC017S	IPC017S		
CALIB. REF:	ID8C011071	ID8C011071		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	1.11	55.2	53.9	96	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/10/11 10:49

End Date: 3/10/11 15:30

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8 C011

Analytical Sequence: S-1IC6010 (V12)

Method File: 1IC6010 (V12)

Database: EMAX13

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

- CCB2 Cr 73x1DL, <MDL. C448-01 detected 710x blank conc. level. ∴ no corrective action
- CCB4 Cd, Zn failed 73x1DL, >MDL
- C074-19 Zn 7LDR. Needs dilution.

	STANDARDS ID		STANDARDS ID
S0	SMIB14-4005	S30	SMIB14-4201
S1	MA	S31	4202
S2		ICV	2701
S3		CCV	3805
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	MA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SMIB14-4109
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SMIB143102		
S21	3702		
S22	3703		
S23	3704		
S24	4001		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Analyzed By: TH

Date: 3/10/11

SEQUENCE FILE : ID8C011

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C011001	Blank	10:49	03/10/11	1.000
ID8C011002	S20	10:52	03/10/11	1.000
ID8C011003	S21	10:55	03/10/11	1.000
ID8C011004	S22	10:58	03/10/11	1.000
ID8C011005	S23	11:01	03/10/11	1.000
ID8C011006	S24	11:04	03/10/11	1.000
ID8C011007	S25	11:07	03/10/11	1.000
ID8C011008	S26	11:09	03/10/11	1.000
ID8C011009	S27	11:12	03/10/11	1.000
ID8C011010	S28	11:15	03/10/11	1.000
ID8C011011	S29	11:18	03/10/11	1.000
ID8C011012	S30	11:21	03/10/11	1.000
ID8C011013	S31	11:24	03/10/11	1.000
ID8C011014	ICV	11:27	03/10/11	1.000
ID8C011015	IC8	11:29	03/10/11	1.000
ID8C011016	MRLB1001	11:32	03/10/11	1.000
ID8C011017	MRLB1002	11:35	03/10/11	1.000
ID8C011018	ICSA1	11:38	03/10/11	1.000
ID8C011019	ICSAB1	11:41	03/10/11	1.000
ID8C011020	CCV1	11:44	03/10/11	1.000
ID8C011021	CCB1	11:46	03/10/11	1.000
ID8C011022	C448-01A	11:49	03/10/11	200.0
ID8C011023	C448-01I	11:52	03/10/11	200.0
ID8C011024	C448-01J	11:54	03/10/11	1000.
ID8C011025	C448-01G	11:57	03/10/11	200.0
ID8C011026	C448-01H	12:00	03/10/11	200.0
ID8C011027	Blank	12:03	03/10/11	1.000
ID8C011028	CCV2	12:06	03/10/11	1.000
ID8C011029	CCB2	12:08	03/10/11	1.000
ID8C011030	C842-01A	12:11	03/10/11	1.000
ID8C011031	C842-01	12:14	03/10/11	1.000
ID8C011032	C842-01J	12:17	03/10/11	5.000
ID8C011033	C438-01	12:19	03/10/11	1.000
ID8C011034	Blank	12:22	03/10/11	1.000
ID8C011035	CCV3	12:25	03/10/11	1.000
ID8C011036	CCB3	12:28	03/10/11	1.000
ID8C011037	IPC017SB	12:30	03/10/11	1.000
ID8C011038	IPC017SL	12:33	03/10/11	1.000
ID8C011039	IPC017SC	12:36	03/10/11	1.000
ID8C011040	C074-20A	12:38	03/10/11	1.000
ID8C011041	C074-20	12:41	03/10/11	1.000
ID8C011042	C074-20J	12:44	03/10/11	5.000
ID8C011043	C074-20M	12:46	03/10/11	1.000
ID8C011044	C074-20S	12:49	03/10/11	1.000
ID8C011045	C074-01	12:52	03/10/11	1.000
ID8C011046	Blank	12:54	03/10/11	1.000
ID8C011047	CCV4	12:57	03/10/11	1.000
ID8C011048	CCB4	13:00	03/10/11	1.000
ID8C011049	C074-02	13:03	03/10/11	1.000
ID8C011050	C074-03	13:05	03/10/11	1.000
ID8C011051	C074-04	13:08	03/10/11	1.000
ID8C011052	C074-05	13:11	03/10/11	1.000
ID8C011053	C074-06	13:14	03/10/11	1.000
ID8C011054	C074-07	13:16	03/10/11	1.000

ID8C011055	C074-08	13:19	03/10/11	1.000
ID8C011056	C074-09	13:21	03/10/11	1.000
ID8C011057	C074-10	13:24	03/10/11	1.000
ID8C011058	Blank	13:27	03/10/11	1.000
ID8C011059	CCV5	13:30	03/10/11	1.000
ID8C011060	CCB5	13:32	03/10/11	1.000
ID8C011061	C074-11	13:35	03/10/11	1.000
ID8C011062	C074-12	13:38	03/10/11	1.000
ID8C011063	C074-13	13:40	03/10/11	1.000
ID8C011064	C074-14	13:43	03/10/11	1.000
ID8C011065	C074-15	13:46	03/10/11	1.000
ID8C011066	C074-16	13:49	03/10/11	1.000
ID8C011067	C074-17	13:52	03/10/11	1.000
ID8C011068	C074-18	13:54	03/10/11	1.000
ID8C011069	C074-19	13:57	03/10/11	1.000
ID8C011070	Blank	14:00	03/10/11	1.000
ID8C011071	CCV6	14:03	03/10/11	1.000
ID8C011072	CCB6	14:05	03/10/11	1.000
ID8C011073	IPC017SQ	14:16	03/10/11	1.000
ID8C011074	IPC017SX	14:19	03/10/11	1.000
ID8C011075	IPC017SY	14:21	03/10/11	1.000
ID8C011076	C074-20A	14:24	03/10/11	1.000
ID8C011077	C074-20W	14:27	03/10/11	1.000
ID8C011078	C074-20J	14:29	03/10/11	5.000
ID8C011079	C074-20G	14:32	03/10/11	1.000
ID8C011080	C074-20H	14:35	03/10/11	1.000
ID8C011081	C074-01W	14:37	03/10/11	1.000
ID8C011082	Blank	14:40	03/10/11	1.000
ID8C011083	CCV7	14:43	03/10/11	1.000
ID8C011084	CCB7	14:46	03/10/11	1.000
ID8C011085	C074-02W	14:49	03/10/11	1.000
ID8C011086	C074-03W	14:51	03/10/11	1.000
ID8C011087	C074-04W	14:54	03/10/11	1.000
ID8C011088	C074-05W	14:57	03/10/11	1.000
ID8C011089	C074-06W	15:00	03/10/11	1.000
ID8C011090	C074-07W	15:02	03/10/11	1.000
ID8C011091	C074-08W	15:05	03/10/11	1.000
ID8C011092	C074-09W	15:08	03/10/11	1.000
ID8C011093	C074-10W	15:10	03/10/11	1.000
ID8C011094	Blank	15:13	03/10/11	1.000
ID8C011095	CCV8	15:16	03/10/11	1.000
ID8C011096	CCB8	15:19	03/10/11	1.000
ID8C011097	C074-19T	15:21	03/10/11	10.00
ID8C011098	Blank	15:24	03/10/11	1.000
ID8C011099	CCV9	15:27	03/10/11	1.000
ID8C011100	CCB9	15:30	03/10/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8C011 DATE : 03/10/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	103	95	101	101	103	99	97	100	95	94	101	101	97	107	94	93	99	97	96	99	100	107	98	92	98	99	98	104
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB1001	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB1002	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	95	----	----	----	----	----	----	92	----	----	----	90	----	----	90	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	98	101	104	108	101	109	93	92	92	95	108	92	95	113	93	90	104	97	101	103	108	111	100	84	99	98	97	104
CCV1	102	98	101	102	101	99	95	97	95	97	102	98	98	107	92	93	102	98	96	100	100	106	99	91	100	98	98	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	103	99	102	102	101	99	95	96	94	97	101	98	98	106	92	92	103	98	95	101	99	105	98	92	101	98	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C438-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	102	99	101	102	102	98	94	96	94	97	101	98	98	106	92	92	103	98	96	100	99	106	98	91	102	98	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	102	98	101	101	101	98	95	97	94	97	101	98	97	105	92	92	102	97	95	100	99	105	97	92	101	98	98	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C074-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	100	103	100	102	99	98	97	96	96	101	99	97	105	94	93	101	97	94	102	101	105	97	95	99	98	99	105
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	105	100	103	100	102	99	98	98	96	96	101	99	97	104	94	93	101	97	94	102	100	104	98	95	99	98	99	105
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	104	98	101	103	101	99	93	95	94	97	104	97	98	107	91	92	103	98	96	100	100	106	100	91	100	98	97	103
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	105	100	103	101	102	100	97	97	96	96	102	98	98	105	93	93	102	97	95	102	102	105	99	94	99	98	98	104
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-19T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	107	101	104	104	103	101	98	95	97	97	107	98	97	107	92	94	103	98	96	104	103	106	100	95	98	99	98	103
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C011 (SOIL) DATE : 03/10/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	25.9	1.50	.160	.470	.220	7.75	.360	-.720	.470	.160	.790	5.68	.030	.110	8.29	.440	.720	.450	73.1	.690	.000	41.4	.110	1.21	.200	.400	.430	.500
MRLB1001	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB1002	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.13	.050	2.58	-.070	49.3	-1.71	----	-.050	-1.65	1.28	----	-.710	5.29	----	1.49	-.980	.200	-27.3	2.90	.140	128	1.15	2.52	2.70	3.59	2.00	1.90
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	66.4	.720	1.17	.950	.640	7.66	.460	134	.650	.310	.840	29.4	.330	.420	55.8	1.12	.920	.600	105	.710	.150	80.2	.290	1.20	.540	.310	.440	1.51
C448-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	42.6	.320	.680	1.22	.830	7.45	.340	43.0	1.20	.250	1.11	11.6	.330	.200	25.3	1.26	.690	.600	82.1	.440	.020	58.2	.280	.560	-.060	.220	.680	.270
C842-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C842-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C438-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	13.3	-.010	-.040	.360	.160	7.36	.210	11.3	.320	.280	.420	5.04	.180	-.490	.870	.320	.610	.280	49.1	.030	-.100	23.6	.120	.550	.580	.200	.290	-.010
IPC017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	264	3.20	2.44	7.81	4.65	11.2	4.51	1074	6.27	2.28	6.88	77.4	5.68	1.63	178	7.81	5.48	5.93	237	.770	1.19	221	1.89	6.41	1.45	1.34	3.78	37.5
C074-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C074-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	18.3	.840	-1.16	.640	.130	6.48	.120	13.3	.210	.300	.480	3.68	-.070	-.470	6.20	.360	.680	.050	34.1	.020	.100	14.7	.090	.390	.610	.320	.240	.610
C074-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	20.9	1.36	-.050	.590	.140	6.49	.250	36.8	.250	.170	.690	9.03	-.090	-.080	13.8	.420	.710	.280	45.8	.310	.010	15.5	.090	.490	.520	.030	.070	3.04
IPC017SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC017SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-20H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	13.5	.580	-.530	.460	.110	7.16	.140	11.6	.170	.290	.470	3.48	.100	.010	1.90	.290	.590	.230	60.4	-1.17	.000	21.4	.090	.080	.380	-.190	.260	.310
C074-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	28.1	1.14	.570	.990	.410	6.28	.270	30.7	.400	.280	.940	12.8	.240	.460	18.3	1.18	.770	.240	50.6	.120	-.090	24.1	.190	.420	.170	.240	.330	.510
C074-19T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	24.2	.890	.420	.740	.270	6.26	.190	21.6	.400	.180	.820	7.64	.240	.420	6.19	.530	.610	.360	44.5	.120	.010	26.0	.140	.710	.020	-.070	.340	.620

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C011001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8C011002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8C011003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8C011004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8C011005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8C011006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8C011007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8C011008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8C011009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8C011010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8C011011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8C011012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8C011013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8C011014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8C011015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLB1001		ID8C011016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLB1002		ID8C011017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8C011018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8C011019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8C011020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8C011021			1	☒	3XIDL	None
22	9	2	9	1	Unk	C448-01A	200X	ID8C011022			1	☒	unk	---
23	10	2	10	1	Unk	C448-01I	200X	ID8C011023			1	☒	unk	---
24	11	2	11	1	Unk	C448-01J	1000X	ID8C011024			1	☒	unk	---
25	12	2	12	1	Unk	C448-01G	200X	ID8C011025			1	☒	unk	---
26	13	2	1	2	Unk	C448-01H	200X	ID8C011026			1	☒	unk	---
27	14	2	2	2	Blank	Blank		ID8C011027			1	☐		---
28	15	2	3	2	QC	CCV2		ID8C011028			1	☒	CCV	None
29	16	2	4	2	QC	CCB2		ID8C011029			1	☒	3XIDL	None
30	17	2	5	2	Unk	C842-01A		ID8C011030			1	☒	unk	---
31	18	2	6	2	Unk	C842-01		ID8C011031			1	☒	unk	---
32	19	2	7	2	Unk	C842-01J		ID8C011032			1	☒	unk	---
33	20	2	8	2	Unk	C438-01		ID8C011033			1	☒	unk	---
34	21	2	9	2	Blank	Blank		ID8C011034			1	☐		---
35	22	2	10	2	QC	CCV3		ID8C011035			1	☒	CCV	None
36	23	2	11	2	QC	CCB3		ID8C011036			1	☒	3XIDL	None
37	24	2	12	2	QC	IPC017SB		ID8C011037			1	☒	1/2LOQ	None
38	25	2	1	3	QC	IPC017SL		ID8C011038			1	☒	LCS	None
39	26	2	2	3	QC	IPC017SC		ID8C011039			1	☒	LCS	None

T6411

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	C074-20A		ID8C011040			1	☒	unk	—
41	28	2	4	3	Unk	C074-20		ID8C011041			1	☒	unk	—
42	29	2	5	3	Unk	C074-20J		ID8C011042			1	☒	unk	—
43	30	2	6	3	Unk	C074-20M		ID8C011043			1	☒	unk	—
44	31	2	7	3	Unk	C074-20S		ID8C011044			1	☒	unk	—
45	32	2	8	3	Unk	C074-01		ID8C011045			1	☒	unk	—
46	33	2	9	3	Blank	Blank		ID8C011046			1	☐		—
47	34	2	10	3	QC	CCV4		ID8C011047			1	☒	CCV	None
48	35	2	11	3	QC	CCB4		ID8C011048			1	☒	3XIDL	None
49	36	2	12	3	Unk	C074-02		ID8C011049			1	☒	unk	—
50	37	2	1	4	Unk	C074-03		ID8C011050			1	☒	unk	—
51	38	2	2	4	Unk	C074-04		ID8C011051			1	☒	unk	—
52	39	2	3	4	Unk	C074-05		ID8C011052			1	☒	unk	—
53	40	2	4	4	Unk	C074-06		ID8C011053			1	☒	unk	—
54	41	2	5	4	Unk	C074-07		ID8C011054			1	☒	unk	—
55	42	2	6	4	Unk	C074-08		ID8C011055			1	☒	unk	—
56	43	2	7	4	Unk	C074-09		ID8C011056			1	☒	unk	—
57	44	2	8	4	Unk	C074-10		ID8C011057			1	☒	unk	—
58	45	2	9	4	Blank	Blank		ID8C011058			1	☐		—
59	46	2	10	4	QC	CCV5		ID8C011059			1	☒	CCV	None
60	47	2	11	4	QC	CCB5		ID8C011060			1	☒	3XIDL	None
61	48	2	12	4	Unk	C074-11		ID8C011061			1	☒	unk	—
62	49	2	1	5	Unk	C074-12		ID8C011062			1	☒	unk	—
63	50	2	2	5	Unk	C074-13		ID8C011063			1	☒	unk	—
64	51	2	3	5	Unk	C074-14		ID8C011064			1	☒	unk	—
65	52	2	4	5	Unk	C074-15		ID8C011065			1	☒	unk	—
66	53	2	5	5	Unk	C074-16		ID8C011066			1	☒	unk	—
67	54	2	6	5	Unk	C074-17		ID8C011067			1	☒	unk	—
68	55	2	7	5	Unk	C074-18		ID8C011068			1	☒	unk	—
69	56	2	8	5	Unk	C074-19		ID8C011069			1	☒	unk	—
70	57	2	9	5	Blank	Blank		ID8C011070			1	☐		—
71	58	2	10	5	QC	CCV6		ID8C011071			1	☒	CCV	None
72	59	2	11	5	QC	CCB6		ID8C011072			1	☒	3XIDL	None
73	60	2	12	5	QC	IPC017SQ		ID8C011073			1	☒	1/2LOQ	None
74	61	3	1	1	QC	IPC017SX		ID8C011074			1	☒	LCS	None
75	62	3	2	1	QC	IPC017SY		ID8C011075			1	☒	LCS	None
76	63	3	3	1	Unk	C074-20A		ID8C011076			1	☒	unk	—
77	64	3	4	1	Unk	C074-20W		ID8C011077			1	☒	unk	—
78	65	3	5	1	Unk	C074-20J		ID8C011078			1	☒	unk	—

7012

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
79	66	3	6	1	Unk	C074-20G		ID8C011079			1	☒	unk	---
80	67	3	7	1	Unk	C074-20H		ID8C011080			1	☒	unk	---
81	68	3	8	1	Unk	C074-01W		ID8C011081			1	☒	unk	---
82	69	3	9	1	Blank	Blank		ID8C011082			1	☐		---
83	70	3	10	1	QC	CCV7		ID8C011083			1	☒	CCV	None
84	71	3	11	1	QC	CCB7		ID8C011084			1	☒	3XIDL	None
85	72	3	12	1	Unk	C074-02W		ID8C011085			1	☒	unk	---
86	73	3	1	2	Unk	C074-03W		ID8C011086			1	☒	unk	---
87	74	3	2	2	Unk	C074-04W		ID8C011087			1	☒	unk	---
88	75	3	3	2	Unk	C074-05W		ID8C011088			1	☒	unk	---
89	76	3	4	2	Unk	C074-06W		ID8C011089			1	☒	unk	---
90	77	3	5	2	Unk	C074-07W		ID8C011090			1	☒	unk	---
91	78	3	6	2	Unk	C074-08W		ID8C011091			1	☒	unk	---
92	79	3	7	2	Unk	C074-09W		ID8C011092			1	☒	unk	---
93	80	3	8	2	Unk	C074-10W		ID8C011093			1	☒	unk	---
94	81	3	9	2	Blank	Blank		ID8C011094			1	☐		---
95	82	3	10	2	QC	CCV8		ID8C011095			1	☒	CCV	None
96	83	3	11	2	QC	CCB8		ID8C011096			1	☒	3XIDL	None
97	84	3	12	2	Unk	C074-19T	10X	ID8C011097			1	☒	unk	---
98	85	3	1	3	Blank	Blank		ID8C011098			1	☐		---
99	86	3	2	3	QC	CCV9		ID8C011099			1	☒	CCV	None
100	87	3	3	3	QC	CCB9		ID8C011100			1	☒	3XIDL	None

7043

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00082	.00002	-.00001	.00018	.00007	.00006	-.00004	.00059	.00000	-.00105	Blank
2	S20					.87931		.11749				S20
3	S21					8.4780		1.1231				S21
4	S22				.45328						.15405	S22
5	S23				4.4289						1.5962	S23
6	S24						.09042					S24
7	S25						.93681					S25
8	S26	.23882							.89987	.12843		S26
9	S27	9.1748							8.6342	1.3025		S27
10	S28		.00583									S28
11	S29		.05341									S29
12	S30			.00129								S30
13	S31			.00517								S31
14	ICV	103.21	1.4319	1.0145	2.0189	1.5524	2.4765	1.9339	74.915	2.3853	.93894	ICV
15	ICB	.02585	.00150	.00016	.00047	.00022*	.00775*	.00036	-.00072	.00047	.00016	ICB
16	MRLB1001	.20805	.09935	.01021	.01049	.01030	.01498*	.01020	.99760	.01016	.00960	MRLB1001
17	MRLB1002	.21551	.04936	.01051	.00600*	.00432	.10019	.00516	.53788	.01007	.00940	MRLB1002
18	ICSA1	379.71	.00613	.00005	.00258	-.00007	.04930	-.00171	459.10	-.00005	-.00165	ICSA1
19	ICSAB1	391.85	1.0124	1.0421	.54132	.50275	.54656	.92919	461.41	.45907	.47604	ICSAB1
20	CCV1	102.44	1.4764	1.0121	2.0386	1.5215	2.4783	1.8934	72.672	2.3759	.96722	CCV1
21	CCB1	.06638	.00072	.00117	.00095	.00064*	.00766*	.00046*	.13447	.00065	.00031	CCB1
22	C448-01A	5.3542	2.3356	.51956	.51385	.52719	.50397	.49987	49.491	5.2790	.50291	C448-01A
23	C448-01I	.02010	-.03843	.00417	-.00002	-.00002	.00798	-.00025	.01223	5.0556	.00694	C448-01I
24	C448-01J	.02380	-.00587	.00116	.00013	.00021	.00293	.00003	-.00478	1.0170	.00149	C448-01J
25	C448-01G	.04390	-.02792	.00542	.00245	.00237	.00832	.00214	.23139	4.8625	.00899	C448-01G
26	C448-01H	.04672	-.02859	.00622	.00262	.00250	.00801	.00223	.24199	4.9872	.00931	C448-01H
27	Blank	.00027	-.00012	-.00063	.00004	-.00006	.00076	.00002	-.01772	.00171	.00004	Blank
28	CCV2	102.90	1.4902	1.0182	2.0311	1.5218	2.4630	1.8934	72.375	2.3562	.97011	CCV2
29	CCB2	.04263	.00032	.00068	.00122	.00083*	.00745*	.00034	.04297	.00120*	.00025	CCB2
30	C842-01A	74.563	2.3537	.49537	.67645	.51330	.50661	.45573	246.99	.54155	.51304	C842-01A
31	C842-01	69.436	.00175	.00053	.17105	.00066	.04509	-.00013	207.74	.07523	.01268	C842-01
32	C842-01J	13.645	.00003	.00032	.03349	.00008	.01063	-.00019	43.197	.01557	.00264	C842-01J
33	C438-01	23.024	.00030	-.00169	.04863	.00011	.01343	-.00033	103.24	.02423	.00510	C438-01
34	Blank	.00926	.00023	.00084	-.00004	-.00005	.00090	.00004	.05732	.00004	.00004	Blank
35	CCV3	101.82	1.4849	1.0091	2.0339	1.5234	2.4490	1.8749	72.370	2.3411	.96906	CCV3
36	CCB3	.01329	-.00001	-.00004	.00036	.00016	.00736*	.00021	.01133	.00032	.00028	CCB3
37	IPC017SB	.02783	.00043	-.00028	.00065	.00043	.00564	-.00003	.01928	.00101	-.00005	IPC017SB
38	IPC017SL	4.9369	2.3315	.48395	.50464	.51516	.46158	.47281	49.478	.48410	.50263	IPC017SL
39	IPC017SC	4.9344	2.3542	.48487	.50478	.51519	.46244	.47393	49.321	.48316	.50359	IPC017SC
40	C074-20A	84.849	2.3201	.57211	2.0679	.52523	.51919	.47544	75.181	.64968	.59516	C074-20A
41	C074-20	80.032	.01114	.08082	1.5890	.00879	.07084	.00964	27.324	.17676	.08896	C074-20
42	C074-20J	16.332	.00181	.01705	.31603	.00171	.01482	.00193	5.5671	.03594	.01744	C074-20J
43	C074-20M	98.518	1.9311	.56631	2.0783	.52531	.46676	.48259	75.696	.62479	.59266	C074-20M
44	C074-20S	101.14	2.0234	.56510	2.0740	.52524	.47553	.47825	74.415	.68004	.57726	C074-20S
45	C074-01	78.690	.00722	.06518	1.2014	.00965	.04296	.00409	33.994	.11532	.06772	C074-01
46	Blank	.05212	.00000	.00057	.00208	.00025	.00152	.00010	.07762	.00028	.00017	Blank
47	CCV4	102.37	1.4732	1.0108	2.0205	1.5161	2.4484	1.8908	73.101	2.3534	.96503	CCV4
48	CCB4	.26363*	.00320	.00244	.00781*	.00465*	.01119*	.00451*	1.0740*	.00627*	.00228*	CCB4
49	C074-02	92.415	.00951	.10785	1.5659	.01398	.07534	-.00201	34.417	.19470	.12085	C074-02
50	C074-03	73.884	.01124	.11555	3.5820	.01039	.07103	.01706	24.459	.14445	.40669	C074-03
51	C074-04	86.142	.00832	.08380	1.5568	.00904	.05894	.00426	20.868	.17966	.13492	C074-04
52	C074-05	62.549	.00930	.07141	1.1815	.00644	.05473	.03521	14.930	.18223	.13149	C074-05
53	C074-06	84.637	.01578	.12000	1.1270	.00962	.08918	.02636	21.313	.36347	.10519	C074-06
54	C074-07	73.662	.00873	.08093	1.0119	.00714	.05597	.01261	17.433	.21781	.14880	C074-07

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
55	C074-08	77.450	.00900	.08017	.99071	.00729	.05666	.00839	20.755	.22645	.10999	C074-08
56	C074-09	96.841	.01085	.11584	1.3770	.01014	.08380	.01844	27.025	.41057	.13900	C074-09
57	C074-10	75.629	.00786	.06986	1.2420	.00825	.04816	.03116	28.196	.13359	.05755	C074-10
58	Blank	.19969	.00199	.00129	.00427	.00192	.00190	.00258	.56579	.00333	.00132	Blank
59	CCV5	103.74	1.4952	1.0303	2.0081	1.5299	2.4759	1.9629	73.035	2.4052	.95826	CCV5
60	CCB5	.01831	.00084	-.00116	.00064	.00013	.00648	.00012	.01333	.00021	.00030	CCB5
61	C074-11	77.977	.00766	.06955	1.3103	.00830	.05501	.03321	24.324	.15432	.05230	C074-11
62	C074-12	70.295	.01592	.12327	.86861	.00820	.07908	.06385	56.205	.22849	.06456	C074-12
63	C074-13	90.899	.02341	.17108	.92768	.01148	.09737	.27427	137.09	.31695	.09087	C074-13
64	C074-14	68.628	.01216	.12529	.89430	.00819	.07737	.01094	15.461	.22579	.05498	C074-14
65	C074-15	94.648	.01556	.16746	.89264	.00975	.10527	.00514	13.778	.28532	.06067	C074-15
66	C074-16	71.516	.01041	.10151	1.7567	.00839	.07493	.01048	20.164	.21114	.12478	C074-16
67	C074-17	62.680	.00741	.07978	1.0024	.00742	.05642	.00897	19.206	.18527	.06014	C074-17
68	C074-18	85.301	.00892	.09636	1.4014	.00935	.07115	.00601	21.246	.17745	.07013	C074-18
69	C074-19	71.205	.02103	.09321	1.1718	.00783	.06540	.63955	126.76	.14947	.08130	C074-19
70	Blank	.04572	.00010	.00065	.00094	-.00003	.00014	.00005	.05095	.00005	.00014	Blank
71	CCV6	105.00	1.5003	1.0298	2.0070	1.5272	2.4730	1.9610	73.304	2.4068	.95770	CCV6
72	CCB6	.02088	.00136	-.00005	.00059	.00014	.00649	.00025	.03685	.00025	.00017	CCB6
73	IPC017SQ	.01543	.00104	-.00027	.00008	-.00004	.00303	-.00011	-.00717	.00041	.00000	IPC017SQ
74	IPC017SX	5.1250	2.3864	.50115	.50961	.51888	.46430	.49359	49.380	.49457	.49733	IPC017SX
75	IPC017SY	5.0999	2.3779	.49761	.50894	.51601	.46669	.49098	49.026	.49244	.49824	IPC017SY
76	C074-20A	87.880	2.3310	.58223	2.0954	.52888	.52252	.48842	75.414	.66358	.59159	C074-20A
77	C074-20W	82.808	.01097	.08193	1.6191	.00887	.06517	.01008	27.542	.18161	.08918	C074-20W
78	C074-20J	16.796	.00181	.01605	.32004	.00172	.01280	.00193	5.5750	.03681	.01735	C074-20J
79	C074-20G	101.36	1.9160	.56963	2.0832	.52483	.46542	.48510	75.528	.63152	.59145	C074-20G
80	C074-20H	103.17	2.0005	.56457	2.0838	.52264	.47150	.47566	73.368	.67949	.57845	C074-20H
81	C074-01W	79.624	.00679	.06547	1.2228	.00981	.03779	.00483	33.704	.11644	.06893	C074-01W
82	Blank	.05280	.00000	-.00048	.00066	-.00001	.00102	.00018	.01450	.00015	.00025	Blank
83	CCV7	104.20	1.4706	1.0066	2.0591	1.5212	2.4762	1.8626	71.473	2.3534	.97160	CCV7
84	CCB7	.01348	.00058	-.00053	.00046	.00011	.00716	.00014	.01155	.00017	.00029	CCB7
85	C074-02W	93.691	.01020	.10752	1.5829	.01362	.06661	-.00099	33.565	.19125	.12208	C074-02W
86	C074-03W	74.626	.00950	.11362	3.6436	.01044	.06518	.01797	24.193	.14280	.41488	C074-03W
87	C074-04W	85.871	.00840	.08405	1.5608	.00893	.05571	.00493	20.517	.17767	.13641	C074-04W
88	C074-05W	63.005	.00889	.07023	1.1837	.00642	.05264	.03536	14.713	.17877	.13230	C074-05W
89	C074-06W	84.478	.01562	.11916	1.1287	.00958	.08732	.02710	21.099	.35847	.10657	C074-06W
90	C074-07W	73.650	.00799	.08041	1.0142	.00703	.05389	.01321	17.254	.21553	.15074	C074-07W
91	C074-08W	77.224	.00774	.08103	.99549	.00728	.05571	.00917	20.641	.22392	.11153	C074-08W
92	C074-09W	96.026	.01033	.11315	1.3807	.01002	.08350	.01910	26.819	.40474	.14002	C074-09W
93	C074-10W	74.979	.00797	.06820	1.2401	.00818	.04654	.03092	27.862	.13244	.05796	C074-10W
94	Blank	.04600	-.00011	.00026	.00062	-.00003	.00018	.00000	.01293	.00002	.00015	Blank
95	CCV8	105.33	1.4969	1.0275	2.0207	1.5283	2.4898	1.9418	72.437	2.3959	.96433	CCV8
96	CCB8	.02814	.00114	.00057	.00099	.00041*	.00625	.00027	.03071	.00040	.00028	CCB8
97	C074-19T	7.3374	.00226	.00913	.11728	.00089	.00793	.06880	12.799	.01574	.00790	C074-19T
98	Blank	.01479	.00029	.00148	.00020	-.00005	.00124	.00002	.00662	.00013	.00012	Blank
99	CCV9	107.21	1.5089	1.0445	2.0701	1.5404	2.5206	1.9554	71.514	2.4142	.97034	CCV9
100	CCB9	.02419	.00089	.00042	.00074	.00027*	.00626	.00019	.02158	.00040	.00018	CCB9

ID8C011 Section 1 of 3

ID8C011 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00134	.00000	.00004	.00003	.00000	.00001	-.00003	-.00049	-.00030	.00000	Blank
2	S20			.19662			.11166					S20
3	S21			1.9511			1.1056					S21
4	S22	.30624	.05871									S22
5	S23	2.9551	2.2200									S23
6	S24							.75143				S24
7	S25							7.5406				S25
8	S26								.75172	.31137		S26
9	S27								7.5641	3.2800		S27
10	S28					.11607						S28
11	S29					.44739						S29
12	S30				.02726						.00141	S30
13	S31				.13394						.00560	S31
14	ICV	2.5209	25.127	2.4295	.53279	56.438	2.3141	2.4857	2.4241	57.784	.99355	ICV
15	ICB	.00079	.00568	.00003	.00011	.00829	.00044	.00072	.00045	.07315	.00069	ICB
16	MRLB1001	.01046	.21645	.01061	.01065	.93948	.00993	.01038	.01008	.96044	.00930	MRLB1001
17	MRLB1002	.01088	.10897	.00351	.10022	.19381	.00523	.01008	.01037	.93372	.00984	MRLB1002
18	ICSA1	.00128	180.70	-.00071	.00529	180.83	.00149	-.00098	.00020	-.02732	.00290	ICSA1
19	ICSAB1	.54009	184.53	.95180	1.1349	185.58	.45188	1.0358	.96650	75.916	1.0324	ICSAB1
20	CCV1	2.5426	24.436	2.4385	.53351	55.082	2.3168	2.5508	2.4380	57.842	1.0038	CCV1
21	CCB1	.00084	.02945	.00033	.00042	.05581*	.00112	.00092*	.00060	.10547	.00071	CCB1
22	C448-01A	.63623	23.499	.50906	.00017	46.701	.51874	.54584	3.2698	47.716	.51098	C448-01A
23	C448-01I	.12169	19.693	-.00066	-.00017	.01146	.03582	.03749	2.9367	.07243	.00059	C448-01I
24	C448-01J	.02465	3.9707	-.00024	-.00009	.00614	.00725	.00753	.58948	.03768	.00004	C448-01J
25	C448-01G	.11909	18.731	.00149	-.00057	.22234	.03674	.03750	2.8276	.24201	.00258	C448-01G
26	C448-01H	.12179	19.255	.00139	-.00020	.23463	.03757	.03640	2.8982	.25202	.00240	C448-01H
27	Blank	.00012	.00765	.00015	-.00010	.00448	-.00012	-.00003	.00075	.00220	.00058	Blank
28	CCV2	2.5317	24.461	2.4473	.52812	55.071	2.3042	2.5774	2.4441	57.154	1.0101	CCV2
29	CCB2	.00111*	.01161	.00033	.00020	.02527	.00126	.00069	.00060	.08208	.00044	CCB2
30	C842-01A	.72438	133.81	.55854	.01262	55.427	1.2619	.54422	.51314	50.296	.49093	C842-01A
31	C842-01	.19755	133.50	.06442	.01219	10.929	.82993	.00715	.05701	1.9567	-.00233	C842-01
32	C842-01J	.03855	27.554	.01250	.00167	2.2230	.16882	.00146	.01119	.38024	-.00023	C842-01J
33	C438-01	.02222	34.333	.00816	.00274	3.8438	.36418	.00190	.01646	.35487	.00013	C438-01
34	Blank	-.00006	.01619	-.00030	-.00033	.00171	.00028	-.00004	.00023	.00512	-.00022	Blank
35	CCV3	2.5191	24.438	2.4453	.52891	54.991	2.3063	2.5798	2.4430	57.368	1.0013	CCV3
36	CCB3	.00042	.00504	.00018	-.00049	.00087	.00032	.00061	.00028	.04909	.00003	CCB3
37	IPC017SB	.00048	.01102	-.00027	-.00002	.02875	.00082	.00037	.00019	.06725	.00019	IPC017SB
38	IPC017SL	.50799	5.0869	.50277	-.00007*	46.509	.47322	.54358	.45182	47.127	.47437	IPC017SL
39	IPC017SC	.50747	5.0818	.50347	.00018*	46.367	.47369	.54755	.45347	46.791	.47773	IPC017SC
40	C074-20A	.61353	211.56	.84958	.03657	50.375	4.8685	.54379	.55136	53.040	.49010	C074-20A
41	C074-20	.08824	213.53	.36177	.03586	4.8673	4.5724	.00881	.08972	5.8382	.00652	C074-20
42	C074-20J	.01763	44.368	.07216	.00614	.99904	.93477	.00160	.01746	1.1539	.00101	C074-20J
43	C074-20M	.60285	176.92	.87221	.04244	51.207	4.7075	.54000	.53443	52.705	.48689	C074-20M
44	C074-20S	.59898	195.24	.84213	.04676	51.866	4.6226	.53896	.53509	53.162	.48355	C074-20S
45	C074-01	.06661	136.00	.26850	.03214	5.8218	3.4837	.00348	.10784	3.5489	.00245	C074-01
46	Blank	.00033	.10010	.00010	.00004	.02743	.00519	.00007	.00024	.06230	-.00001	Blank
47	CCV4	2.5221	24.523	2.4362	.52473	55.433	2.3051	2.5562	2.4292	57.031	.99955	CCV4
48	CCB4	.00688*	.07737*	.00568*	.00163	.17845*	.00781*	.00548*	.00593*	.23748*	.00077	CCB4
49	C074-02	.09295	237.68	.21747	.03419	5.2175	5.7105	.00764	.20064	3.2382	.00204	C074-02
50	C074-03	.08505	201.18	2.1054	.03155	5.7869	36.869	.00954	.18014	5.1576	.00376	C074-03
51	C074-04	.08108	178.34	4.4967	.03317	6.3228	9.4662	.00634	.09266	5.3150	.00651	C074-04
52	C074-05	.08484	174.46	.73392	.02382	4.3063	8.4307	.00841	.08798	4.5631	.00437	C074-05
53	C074-06	.10142	283.99	.72915	.03162	5.2066	5.4871	.01298	.10260	5.0316	.00689	C074-06
54	C074-07	.08670	178.55	.58741	.02820	5.0111	6.1498	.00825	.06995	5.6341	.00591	C074-07

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
55	C074-08	.07763	184.10	.46087	.02921	5.0481	4.9997	.00857	.06762	4.7552	.00574	C074-08
56	C074-09	.11404	257.64	.73217	.03661	6.1958	7.1606	.01180	.09880	5.8859	.00778	C074-09
57	C074-10	.10955	147.10	63461	.02897	6.3973	4.1670	.00462	.07044	4.9758	.00505	C074-10
58	Blank	.00367	.16489	.00415	.00011	.09084	.00618	.00280	.00327	.06728	.00029	Blank
59	CCV5	2.5370	24.749	2.4365	.52599	56.204	2.3234	2.5318	2.4202	56.591	1.0189	CCV5
60	CCB5	.00048	.00368	-.00007	-.00047	.00620	.00036	.00068	.00005	.03410	.00002	CCB5
61	C074-11	.10455	149.75	.60792	.02886	6.1938	4.3547	.00492	.06936	4.5596	.00549	C074-11
62	C074-12	.13768	260.86	1.5042	.02686	6.6103	2.2121	.01362	.09906	5.4908	.00723	C074-12
63	C074-13	.44459	342.07	3.7729	.03645	9.6396	2.0453	.01453	.15609	5.4290	.00889	C074-13
64	C074-14	.15109	276.98	.91938	.02325	4.0501	2.6346	.01344	.05956	4.3618	.00912	C074-14
65	C074-15	.08037	363.89	58371	.03382	3.9588	2.4117	.01683	.07337	4.2102	.00954	C074-15
66	C074-16	.08904	243.31	.75265	.02374	5.4045	8.7390	.00970	.07885	6.9899	.00584	C074-16
67	C074-17	.07996	189.31	.64159	.02051	4.9839	3.4529	.00779	.06450	6.5564	.00557	C074-17
68	C074-18	.08371	228.75	.51192	.02872	5.9494	4.0936	.00866	.07719	6.9229	.00568	C074-18
69	C074-19	.12749	189.14	.96395	.03234	5.9413	3.8688	.00782	.12236	6.9196	.00481	C074-19
70	Blank	.00024	.12428	.00031	.00000	.00411	.00265	.00011	.00008	-.00669	-.00045	Blank
71	CCV6	2.5371	24.783	2.4364	.52222	56.225	2.3283	2.5261	2.4137	56.481	1.0177	CCV6
72	CCB6	.00069	.00903	-.00009	-.00008	.01376	.00042	.00071	.00028	.04580	.00031	CCB6
73	IPC017SQ	.00024	.00864	-.00065	-.00028	.00384	.00015	.00018	.00027	.00608	-.00042	IPC017SQ
74	IPC017SX	.52395	5.1488	.49986	.00076*	47.008	.48015	.53737	.44979	46.960	.49339	IPC017SX
75	IPC017SY	.52362	5.1118	.49822	.00071*	46.550	.47738	.53680	.44958	46.913	.49002	IPC017SY
76	C074-20A	.63063	214.55	.84757	.03763	51.025	4.9623	.53767	.54999	53.271	.49929	C074-20A
77	C074-20W	.09140	216.20	.36167	.03608	4.9513	4.6582	.00889	.09044	5.9500	.00529	C074-20W
78	C074-20J	.01798	44.440	.07230	.00644	1.0137	.94906	.00168	.01750	1.1782	.00101	C074-20J
79	C074-20G	.61715	176.45	.86881	.04336	51.240	4.7203	.53801	.53468	52.975	.49267	C074-20G
80	C074-20H	.61590	191.71	.84036	.04712	51.091	4.6122	.53872	.53623	53.335	.48819	C074-20H
81	C074-01W	.06974	135.13	.27310	.03201	5.7803	3.5020	.00351	.10924	3.6007	.00282	C074-01W
82	Blank	.00040	.08611	-.00021	-.00015	.00273	.00107	.00018	.00025	.04218	.00023	Blank
83	CCV7	2.5924	24.132	2.4425	.53376	54.358	2.3068	2.5702	2.4455	57.810	1.0045	CCV7
84	CCB7	.00047	.00348	.00010	.00001	.00190	.00029	.00059	.00023	.06035	-.00117	CCB7
85	C074-02W	.09454	232.21	.21707	.03469	5.0579	5.6293	.00734	.20211	3.2623	.00126	C074-02W
86	C074-03W	.08780	197.80	2.1327	.03176	5.7202	36.810	.00984	.18354	5.2673	.00188	C074-03W
87	C074-04W	.08204	174.88	4.5322	.03365	6.1526	9.3278	.00632	.09337	5.3618	.00729	C074-04W
88	C074-05W	.08511	170.90	.73601	.02466	4.2519	8.3250	.00852	.08878	4.6361	.00534	C074-05W
89	C074-06W	.10205	279.88	.73404	.03156	5.1343	5.4351	.01291	.10330	5.0409	.00491	C074-06W
90	C074-07W	.08754	174.89	59383	.02777	4.9023	6.0974	.00820	.07046	5.6670	.00382	C074-07W
91	C074-08W	.07852	181.43	.46740	.02968	4.9394	4.9610	.00852	.06856	4.8208	.00667	C074-08W
92	C074-09W	.11428	252.04	.73566	.03637	6.0917	7.1155	.01189	.09975	5.9434	.00828	C074-09W
93	C074-10W	.10939	144.18	.63454	.02959	6.2615	4.1229	.00451	.07081	5.0178	.00478	C074-10W
94	Blank	.00021	.09425	.00038	-.00046	-.00336	.00148	.00008	.00001	-.00274	.00136	Blank
95	CCV8	2.5618	24.420	2.4396	.52676	55.559	2.3236	2.5467	2.4288	56.763	1.0214	CCV8
96	CCB8	.00094	.01277	.00024	.00046	.01826	.00118	.00077	.00024	.05062	.00012	CCB8
97	C074-19T	.01352	19.639	.09562	.00290	.60151	.39595	.00084	.01174	.68126	.00000	C074-19T
98	Blank	.00044	.00740	-.00009	-.00024	-.00594	.00009	.00004	-.00001	.00279	.00052	Blank
99	CCV9	2.6781	24.487	2.4308	.53461	55.360	2.3410	2.5626	2.4494	57.497	1.0420	CCV9
100	CCB9	.00082	.00764	.00024	.00042	.00619	.00053	.00061	.00036	.04452	.00012	CCB9

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00092	-.00015	-.00002	.00005	.00000	-.00014	.00093	Blank
2	S20									S20
3	S21									S21
4	S22							.14536		S22
5	S23							1.4542		S23
6	S24		1.0488							S24
7	S25		6.0487							S25
8	S26									S26
9	S27									S27
10	S28				.00634					S28
11	S29				.05681					S29
12	S30	.04064		.12455		.02699	.01585		.60877	S30
13	S31	.19962		.60932		.13200	.07873		5.9365	S31
14	ICV	.49962	64.093	.49144	2.2954	.48787	.49556	1.4714	2.6101	ICV
15	ICB	.00000	.04136	.00011	.00121	.00020	.00040	.00043	.00050	ICB
16	MRLB1001	.00995	1.0522	.01028	.01118	.00008	.01020	.01016	.02011	MRLB1001
17	MRLB1002	.01008	.53689	.01051	.01092	.01037	.01003	.01027	.01255*	MRLB1002
18	ICSA1	.00014	.12819	.00115	.00252	.00270	.00359	.00200	.00190	ICSA1
19	ICSAB1	1.0840	83.069	.50011	.83605	.98899	.97551	.4B749	1.0446	ICSAB1
20	CCV1	.49906	63.838	.49450	2.2801	.50071	.48847	1.4646	2.6252	CCV1
21	CCB1	.00015	.08021	.00029	.00120	.00054	.00031	.00044	.00151	CCB1
22	C448-01A	.49111	52.530	.46907	.49366	.48859	.49946	.52468	.53915	C448-01A
23	C448-01I	-.00005	.04087	.00006	.00230	.00269	.00276	.01300	-.00306	C448-01I
24	C448-01J	-.00004	.01666	.00009	.00059	.00067	.00052	.00274	-.00128	C448-01J
25	C448-01G	.00244	.25694	.00240	.00379	.00483	.00488	.01456	-.00140	C448-01G
26	C448-01H	.00246	.26367	.00248	.00462	.00497	.00532	.01515	-.00145	C448-01H
27	Blank	.00000	.00900	-.00002	.00043	.00012	.00017	.00005	-.00067	Blank
28	CCV2	.49632	63.234	.49042	2.2974	.50707	.48947	1.4697	2.6265	CCV2
29	CCB2	.00002	.05820	.00028	.00056	-.00006	.00022	.00068	.00027	CCB2
30	C842-01A	.48550	55.161	.59466	.43235	.54759	5.9744	.57219	1.8224	C842-01A
31	C842-01	.00356	1.7604	.12634	.00094	.06039	5.6163	.07980	1.3207	C842-01
32	C842-01J	.00068	.32742	.02488	.00018	.01196	1.1152	.01598	.25634	C842-01J
33	C438-01	.00035	.38277	.04258	-.00054	.04533	1.5258	.03343	.17396	C438-01
34	Blank	-.00017	-.00201	.00006	.00016	.00003	.00103	.00006	-.00049	Blank
35	CCV3	.49286	63.326	.49134	2.2788	.51011	.49100	1.4687	2.6218	CCV3
36	CCB3	-.00010	.02362	.00012	.00055	.00058	.00020	.00029	-.00001	CCB3
37	IPC017SB	-.00015	.02839	.00032	-.00013	.04374	.00008	.00035	.00340	IPC017SB
38	IPC017SL	.48116	52.188	.46924	.45708	.54503	.50266	.50515	.54545	IPC017SL
39	IPC017SC	.47975	51.883	.46961	.45785	.54675	.50446	.50576	.54652	IPC017SC
40	C074-20A	.47633	52.564	.54281	.44248	.53777	1.4954	.79144	1.9459	C074-20A
41	C074-20	-.00033	.25083	.07498	.00219	.04960	1.0224	.30007	1.4394	C074-20
42	C074-20J	-.00009	.04654	.01484	.00050	.00968	.20474	.06048	.27756	C074-20J
43	C074-20M	.49093	52.787	.56151	.44686	.54627	1.4547	.77916	2.1563	C074-20M
44	C074-20S	.49226	52.879	.55440	.44563	.54392	1.4699	.79402	1.9077	C074-20S
45	C074-01	-.00059	.3B553	.09073	-.00003	.04813	.53810	.26924	.96322	C074-01
46	Blank	.00012	.02800	.00036	.00057	.00037	.00125	.00045	.00072	Blank
47	CCV4	.49480	62.944	.48557	2.2943	.50376	.48825	1.4716	2.6308	CCV4
48	CCB4	.00119*	.22105*	.00189*	.00641*	.00145	.00134	.00378*	.03751*	CCB4
49	C074-02	-.00078	.36986	.09834	.00189	.04965	.53020	.50900	.41436	C074-02
50	C074-03	-.00086	.16663	.08770	-.00947*	.04809	1.1004	.37956	2.4344	C074-03
51	C074-04	-.00045	.19964	.08579	.00068	.04993	1.0431	.32476	1.5950	C074-04
52	C074-05	-.00045	.13610	.06143	-.00047	.05058	1.3420	.31911	3.4993	C074-05
53	C074-06	-.00032	.20082	.08764	.00275	.07338	1.7517	.48708	3.1639	C074-06
54	C074-07	-.00050	.12090	.05901	.00109	.06735	1.5570	.35083	2.9615	C074-07

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
55	C074-08	-.00044	.12938	.06637	.00175	.05553	1.6228	.36172	2.3636	C074-08
56	C074-09	-.00058	.17108	.09612	.00209	.06527	2.1034	.49573	4.3492	C074-09
57	C074-10	-.00063	.18813	.09569	.00022	.05216	1.0534	.29599	6.4417	C074-10
58	Blank	.00043	.06979	.00084	.00339	00083	.00139	.00206	.02295	Blank
59	CCV5	.50349	62.778	.48724	2.3786	.49559	.49072	1.4778	2.6373	CCV5
60	CCB5	.00010	.01470	.00009	.00039	.00061	.00032	.00024	.00061	CCB5
61	C074-11	-.00050	.21965	.09357	.00019	.05185	1.1394	.31510	6.3349	C074-11
62	C074-12	-.00023	.21378	.07582	.00248	.05038	1.0549	.38674	13.441	C074-12
63	C074-13	-.00009	.28116	.10118	.00360	.04944	1.0779	.49061	43.692*	C074-13
64	C074-14	-.00028	.19239	.06117	.00310	.04743	.93324	.42493	2.0628	C074-14
65	C074-15	-.00041	.25278	.06656	.00491	04742	1.0327	.50850	1.3831	C074-15
66	C074-16	-.00032	.18012	.10375	-.00013	.04841	1.1206	.35050	1.8108	C074-16
67	C074-17	-.00032	.17240	.09517	.00144	.04714	1.0079	.28858	1.6277	C074-17
68	C074-18	-.00041	.36427	.12537	.00151	.04837	1.3177	.33090	1.3662	C074-18
69	C074-19	-.00012	.24137	.12008	.00130	.05096	.87398	.25007	52.053*	C074-19
70	Blank	-.00013	-.01715	.00013	.00024	.00034	.00088	.00015	.00345	Blank
71	CCV6	.50187	62.695	.48927	2.3759	.49627	.48848	1.4779	2.6284	CCV6
72	CCB6	.00001	.01553	.00009	.00049	.00052	.00003	.00007	.00304	CCB6
73	IPC017SQ	-.00020	.00059	.00017	-.00077	.04223	.00020	.00019	.00274	IPC017SQ
74	IPC017SX	.48909	51.933	.47240	.47598	.53134	.50461	.50917	.54219	IPC017SX
75	IPC017SY	.48789	51.919	.47272	.47256	.52923	.50291	.50659	.53992	IPC017SY
76	C074-20A	.48344	52.559	.54929	.45363	.52758	1.5247	.79549	1.9479	C074-20A
77	C074-20W	-.00019	.24258	.07657	.00181	.04858	1.0545	.30328	1.4339	C074-20W
78	C074-20J	-.00001	.04038	.01518	.00088	.00995	.20924	.06035	.27475	C074-20J
79	C074-20G	.49906	52.817	.56632	.44669	.53780	1.4435	.77770	2.1356	C074-20G
80	C074-20H	.49833	52.847	.56219	.44198	.53368	1.4567	.78408	1.8759	C074-20H
81	C074-01W	-.00037	.38738	.09292	-.00034	.04770	.54574	.26970	.95674	C074-01W
82	Blank	.00013	.00049	.00014	.00045	.00038	.00008	.00031	.00086	Blank
83	CCV7	.50064	63.637	.49914	2.2649	.49829	.48996	1.4566	2.5834	CCV7
84	CCB7	.00000	.02140	.00009	.00008	.00038	-.00019	.00026	.00031	CCB7
85	C074-02W	-.00068	.36085	.09947	.00010	.04925	.52615	.50503	.40821	C074-02W
86	C074-03W	-.00080	.16603	.08941	-.01033*	.04878	1.1199	.37857	2.4180	C074-03W
87	C074-04W	-.00041	.19796	.08655	-.00085	.05057	1.0415	.32185	1.5822	C074-04W
88	C074-05W	-.00039	.14030	.06221	-.00101	.05112	1.3825	.31621	3.4690	C074-05W
89	C074-06W	-.00029	.19749	.08787	.00171	.07442	1.7471	.48426	3.1397	C074-06W
90	C074-07W	-.00050	.11427	.05962	-.00025	.06845	1.5614	.34773	2 9408	C074-07W
91	C074-08W	-.00041	.12952	.06689	.00080	.05753	1.6464	.36055	2.3562	C074-08W
92	C074-09W	-.00048	.16648	.09722	.00134	.06482	2.0792	.48984	4.3084	C074-09W
93	C074-10W	-.00057	.18207	.09623	.00018	.05190	1.0423	.29227	6.3777	C074-10W
94	Blank	-.00012	-.02063	.00007	.00028	.00038	.00012	.00009	.00198	Blank
95	CCV8	.50822	62.891	.49279	2.3619	.49494	.48897	1.4651	2.6042	CCV8
96	CCB8	-.00009	.02407	.00019	.00042	.00017	.00024	.00033	.00051	CCB8
97	C074-19T	.00012	.02068	.01200	.00041	.00516	.08749	.02526	5.4663	C074-19T
98	Blank	-.00011	-.01191	-.00003	.00000	.00027	-.00021	.00009	.00156	Blank
99	CCV9	.51523	63.548	.50052	2.3769	.48963	.49455	1.4728	2.5831	CCV9
100	CCB9	.00001	.02598	.00014	.00071	.00002	-.00007	.00034	.00062	CCB9

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EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IPC017S
Matrix: Soil
Digestor ID: C

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90/91 °C		90/91 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-302	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SM5B-02-147	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: ~~101615632~~ HF 3/9 111241146

Prepared By: HF
Standard Added By: HF Witnessed By: [illegible]
Extract Rcvd By: TH Checked By: TH

7050

EMAX LABORATORIES, INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAml	ExpVd(ml)	AliquotFctr	Comments
11IPC017S01	IPC017SB	1	g	3/9/11 10:34	100	1	100	1	
11IPC017S02	IPC017SL	1	g	3/9/11 10:34	100	1	100	1	
11IPC017S03	IPC017SC	1	g	3/9/11 10:34	100	1	100	1	
11IPC017S04	C074-01	1.14	g	3/9/11 10:35	100	1	100	0.877	✓
11IPC017S05	C074-02	1.244	g	3/9/11 10:42	100	1	100	0.804	✓
11IPC017S06	C074-03	1.109	g	3/9/11 10:38	100	1	100	0.902	✓
11IPC017S07	C074-04	1.051	g	3/9/11 10:39	100	1	100	0.951	✓
11IPC017S08	C074-05	1.158	g	3/9/11 10:44	100	1	100	0.864	✓
11IPC017S09	C074-06	1.345	g	3/9/11 10:45	100	1	100	0.743	✓
11IPC017S10	C074-07	1.223	g	3/9/11 10:48	100	1	100	0.818	✓
11IPC017S11	C074-08	1.118	g	3/9/11 10:49	100	1	100	0.894	✓
11IPC017S12	C074-09	1.408	g	3/9/11 10:50	100	1	100	0.71	✓
11IPC017S13	C074-10	1.377	g	3/9/11 10:52	100	1	100	0.726	✓
11IPC017S14	C074-11	1.323	g	3/9/11 10:53	100	1	100	0.756	✓
11IPC017S15	C074-12	1.18	g	3/9/11 10:54	100	1	100	0.847	✓
11IPC017S16	C074-13	1.262	g	3/9/11 10:56	100	1	100	0.792	✓
11IPC017S17	C074-14	1.226	g	3/9/11 10:57	100	1	100	0.816	✓
11IPC017S18	C074-15	1.153	g	3/9/11 10:58	100	1	100	0.867	✓
11IPC017S19	C074-16	1.291	g	3/9/11 10:59	100	1	100	0.775	✓
11IPC017S20	C074-17	1.221	g	3/9/11 11:01	100	1	100	0.819	✓
11IPC017S21	C074-18	1.353	g	3/9/11 11:02	100	1	100	0.739	✓
11IPC017S22	C074-19	1.265	g	3/9/11 11:04	100	1	100	0.791	✓
11IPC017S23	C074-20	1.116	g	3/9/11 11:04	100	1	100	0.896	✓
11IPC017S24	C074-20M	1.154	g	3/9/11 11:06	100	1	100	0.867	
11IPC017S25	C074-20S	1.044	g	3/9/11 11:06	100	1	100	0.958	

HF 3/9/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAml/Aliquot

☑ Digestion Started @ 3/9/11 12:39 Prepared By: HF

☑ Digestion Ended @ 3/9/11 14:39 Checked By: TH

Comments: Date 3/9/11

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C074

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of five (5) soil samples were received on 03/08/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC019SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
All samples were oven dried and passed through sieve #60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C074
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC019SB	1	NA	03/11/1113:08	03/10/1115:25	ID8C012034	ID8C012032	IPC019S	Method Blank
LCS1S	IPC019SL	1	NA	03/11/1113:11	03/10/1115:25	ID8C012035	ID8C012032	IPC019S	Lab Control Sample (LCS)
LCD1S	IPC019SC	1	NA	03/11/1113:13	03/10/1115:25	ID8C012036	ID8C012032	IPC019S	LCS Duplicate
CP094-S1-02-01AS	C074-03A	0.935	NA	03/11/1113:16	03/10/1115:25	ID8C012037	ID8C012032	IPC019S	Analytical Spike Sample
CP094-S1-02-01	C074-03	0.935	NA	03/11/1113:19	03/10/1115:25	ID8C012038	ID8C012032	IPC019S	Field Sample
CP094-S1-02-01DL	C074-03J	4.67	NA	03/11/1113:21	03/10/1115:25	ID8C012039	ID8C012032	IPC019S	Diluted Sample
CP094-S1-02-02	C074-04	0.943	NA	03/11/1113:24	03/10/1115:25	ID8C012040	ID8C012032	IPC019S	Field Sample
CP094-S1-05-02	C074-11	0.980	NA	03/11/1113:27	03/10/1115:25	ID8C012041	ID8C012032	IPC019S	Field Sample
CP094-S2-01-01	C074-12	0.917	NA	03/11/1113:30	03/10/1115:25	ID8C012042	ID8C012032	IPC019S	Field Sample
CP094-S2-04-01	C074-19	0.990	NA	03/11/1113:54	03/10/1115:25	ID8C012051	ID8C012044	IPC019S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 13:35
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/10/11 15:25
Sample ID:	CP094-S1-02-01	Date Analyzed:	03/11/11 13:19
Lab Samp ID:	C074-03	Dilution Factor:	0.935
Lab File ID:	ID8C012038	Matrix :	SOIL
Ext Btch ID:	IPC019S	% Moisture :	NA
Calib. Ref.:	ID8C012032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	224	0.935	0.281

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 13:40
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/10/11 15:25
Sample ID:	CP094-S1-02-02	Date Analyzed:	03/11/11 13:24
Lab Samp ID:	C074-04	Dilution Factor:	0.943
Lab File ID:	ID8C012040	Matrix :	SOIL
Ext Btch ID:	IPC019S	% Moisture :	NA
Calib. Ref.:	ID8C012032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	467	0.943	0.283

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/02/11 14:55
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/10/11 15:25
Sample ID:	CP094-S1-05-02	Date Analyzed:	03/11/11 13:27
Lab Samp ID:	C074-11	Dilution Factor:	0.980
Lab File ID:	ID8C012041	Matrix :	SOIL
Ext Btch ID:	IPC019S	% Moisture :	NA
Calib. Ref.:	ID8C012032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	61.1	0.980	0.294

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 09:30
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/10/11 15:25
Sample ID:	CP094-S2-01-01	Date Analyzed:	03/11/11 13:30
Lab Samp ID:	C074-12	Dilution Factor:	0.917
Lab File ID:	ID8C012042	Matrix :	SOIL
Ext Btch ID:	IPC019S	% Moisture :	NA
Calib. Ref.:	ID8C012032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	150	0.917	0.275

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:50
Project	: TAR CREEK OU4	Date Received:	03/08/11
SDG NO.	: 11C074	Date Extracted:	03/10/11 15:25
Sample ID:	CP094-S2-04-01	Date Analyzed:	03/11/11 13:54
Lab Samp ID:	C074-19	Dilution Factor:	0.990
Lab File ID:	ID8C012051	Matrix :	SOIL
Ext Btch ID:	IPC019S	% Moisture :	NA
Calib. Ref.:	ID8C012044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	101	0.990	0.297

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/10/11
SDG NO.	: 11C074	Date Extracted:	03/10/11 15:25
Sample ID:	MBLK1S	Date Analyzed:	03/11/11 13:08
Lab Samp ID:	IPC019SB	Dilution Factor:	1
Lab File ID:	ID8C012034	Matrix :	SOIL
Ext Btch ID:	IPC019S	% Moisture :	NA
Calib. Ref.:	ID8C012032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C074
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC019SB	IPC019SL	IPC019SC		
LAB FILE ID:	ID8C012034	ID8C012035	ID8C012036		
DATIME EXTRCTD:	03/10/1115:25	03/10/1115:25	03/10/1115:25	DATE COLLECTED:	NA
DATIME ANALYZD:	03/11/1113:08	03/11/1113:11	03/11/1113:13	DATE RECEIVED:	03/10/11
PREP. BATCH:	IPC019S	IPC019S	IPC019S		
CALIB. REF:	ID8C012032	ID8C012032	ID8C012032		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	49.9	100	50	49.5	99	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C074
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.935	4.67		
SAMPLE ID:	CP094-S1-02-01	CP094-S1-02-01DL		
EMAX SAMP ID:	C074-03	C074-03J		
LAB FILE ID:	ID8C012038	ID8C012039		
DATE EXTRACTED:	03/10/1115:25	03/10/1115:25	DATE COLLECTED:	03/02/11 13:35
DATE ANALYZED:	03/11/1113:19	03/11/1113:21	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC019S	IPC019S		
CALIB. REF:	ID8C012032	ID8C012032		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	224	227	1	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C074
METHOD: METHOD 3050B/6010B

==========

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.935	0.935		
SAMPLE ID:	CP094-S1-02-01			
CONTROL NO.:	C074-03	C074-03A		
LAB FILE ID:	ID8C012038	ID8C012037		
DATIME EXTRCTD:	03/10/1115:25	03/10/1115:25	DATE COLLECTED:	03/02/11 13:35
DATIME ANALYZD:	03/11/1113:19	03/11/1113:16	DATE RECEIVED:	03/08/11
PREP. BATCH:	IPC019S	IPC019S		
CALIB. REF:	ID8C012032	ID8C012032		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	224	46.7	259	75	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/11/11 11:35
End Date: 3/11/11 14:02

SOP #	Rev. #
☑ EMAX-6010	7
☑ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:
CCB2 Cd 73X IDL, <MDL. However, IPC021WB, TXC004WB, CU48-02 detected ND.

Book #: AD8-018
Instrument No.: D8
Analytical Batch: 1D8C012
Analytical Sequence: S-1166010(V13)
Method File: 1166010(V13)
Database: Emax13

	STANDARDS ID			STANDARDS ID
S0	SMIB14-40-05		S30	SMIB14 4201
S1	NA		S31	4202
S2			ICV	4501 ~~4408~~
S3			CCV	TH 3/11/11 3805
S4			ICSA	2002
S5			ICSAB	1803
S6			MLCV	NA
S7			LLCV	
S8			CRI/MRL	
S9			MRL1	SMIB14-4109
S10			MRL2	1901
S11				
S12				
S16				
S17				
S18				
S20	SMIB14-3102			
S21	3702			
S22	3703			
S23	3704			
S24	4001			
S25	4002			
S26	2801			
S27	2802			
S28	4003			
S29	4004			

Analyzed By: TH
Date: 3/11/11

SEQUENCE FILE : ID8C012

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C012001	Blank	11:35	03/11/11	1.000
ID8C012002	S20	11:38	03/11/11	1.000
ID8C012003	S21	11:41	03/11/11	1.000
ID8C012004	S22	11:44	03/11/11	1.000
ID8C012005	S23	11:47	03/11/11	1.000
ID8C012006	S24	11:50	03/11/11	1.000
ID8C012007	S25	11:53	03/11/11	1.000
ID8C012008	S26	11:56	03/11/11	1.000
ID8C012009	S27	11:58	03/11/11	1.000
ID8C012010	S28	12:02	03/11/11	1.000
ID8C012011	S29	12:04	03/11/11	1.000
ID8C012012	S30	12:07	03/11/11	1.000
ID8C012013	S31	12:10	03/11/11	1.000
ID8C012014	ICV	12:13	03/11/11	1.000
ID8C012015	ICB	12:15	03/11/11	1.000
ID8C012016	MRLC1101	12:18	03/11/11	1.000
ID8C012017	MRLC1102	12:21	03/11/11	1.000
ID8C012018	ICSA1	12:24	03/11/11	1.000
ID8C012019	ICSAB1	12:27	03/11/11	1.000
ID8C012020	CCV1	12:30	03/11/11	1.000
ID8C012021	CCB1	12:32	03/11/11	1.000
ID8C012022	IPC021WB	12:35	03/11/11	1.000
ID8C012023	IPC021WL	12:38	03/11/11	1.000
ID8C012024	IPC021WC	12:41	03/11/11	1.000
ID8C012025	TXC004WB	12:43	03/11/11	1.000
ID8C012026	C448-02A	12:46	03/11/11	1.000
ID8C012027	C448-02	12:49	03/11/11	1.000
ID8C012028	C448-02J	12:52	03/11/11	5.000
ID8C012029	C448-02M	12:54	03/11/11	1.000
ID8C012030	C448-02S	12:57	03/11/11	1.000
ID8C012031	Blank	13:00	03/11/11	1.000
ID8C012032	CCV2	13:03	03/11/11	1.000
ID8C012033	CCB2	13:05	03/11/11	1.000
ID8C012034	IPC019SB	13:08	03/11/11	1.000
ID8C012035	IPC019SL	13:11	03/11/11	1.000
ID8C012036	IPC019SC	13:13	03/11/11	1.000
ID8C012037	C074-03A	13:16	03/11/11	1.000
ID8C012038	C074-03	13:19	03/11/11	1.000
ID8C012039	C074-03J	13:21	03/11/11	5.000
ID8C012040	C074-04	13:24	03/11/11	1.000
ID8C012041	C074-11	13:27	03/11/11	1.000
ID8C012042	C074-12	13:30	03/11/11	1.000
ID8C012043	Blank	13:32	03/11/11	1.000
ID8C012044	CCV3	13:35	03/11/11	1.000
ID8C012045	CCB3	13:38	03/11/11	1.000
ID8C012046	IPC003WB	13:41	03/11/11	1.000
ID8C012047	IPC003WL	13:44	03/11/11	1.000

ID8C012048	IPC003WC	13:46	03/11/11	1.000
ID8C012049	IPC003WX	13:49	03/11/11	1.000
ID8C012050	IPC003WY	13:51	03/11/11	1.000
ID8C012051	C074-19	13:54	03/11/11	1.000
ID8C012052	Blank	13:57	03/11/11	1.000
ID8C012053	CCV4	14:00	03/11/11	1.000
ID8C012054	CCB4	14:02	03/11/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8C012 DATE : 03/11/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	101	107	100	100	99	98	101	98	95	100	99	97	104	94	93	100	100	98	107	101	103	98	95	100	99	98	108
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	95	----	----	----	90	----	----	92	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	100	106	106	99	105	93	96	95	93	106	91	94	112	94	91	100	98	105	106	110	109	100	84	97	98	96	106
CCV1	106	99	105	100	101	99	96	101	98	96	100	99	97	106	94	94	101	100	100	104	102	105	99	93	101	99	98	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC021WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC021WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC021WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC004WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	106	99	105	100	100	99	96	101	99	95	100	99	97	105	94	94	100	100	100	104	101	105	99	94	100	99	98	107
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC019SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC019SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC019SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	106	102	108	100	100	99	100	101	99	95	100	99	97	104	94	93	100	100	98	107	102	103	98	97	100	99	98	108
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	106	99	106	101	100	99	97	101	99	95	101	98	97	105	94	93	100	100	100	105	102	105	99	94	99	99	98	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPC018WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	105	99	105	100	100	99	96	101	98	96	99	98	97	104	93	93	101	100	100	105	101	105	98	94	101	98	98	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC019SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1103	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	100	108	100	101	99	100	102	101	95	100	99	96	105	96	95	100	99	100	107	103	105	99	97	99	100	99	107
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	110	102	111*	104	102	102	102	98	102	97	107	98	96	109	93	95	101	101	101	111*	106	107	103	98	96	100	98	105
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C012 (SOIL) DATE : 03/11/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	24.7	.780	.890	.680	.210	5.13	.210	65.2	.130	-.020	.330	2.73	.380	.310	-.700	.530	.460	.350	77.4	-1.78	.080	30.1	.090	-.430	.260	.730	.140	3.17
MRLC1101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.24	-.890	2.68	.010	30.3	-1.31	----	.010	-2.09	1.17	----	2.49	5.49	----	1.69	-1.06	.520	-19.5	.930	.310	116	.950	3.00	1.68	4.12	2.44	6.44
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	27.5	1.52	2.43	.780	.330	5.20	.380	63.1	.590	.020	.460	8.39	.180	.400	7.76	.700	.720	.400	94.0	.140	.140	49.3	.130	-.050	.360	.920	.350	1.75
IPC021WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC021WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC021WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC004WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C448-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	32.5	1.17	.890	1.22	.540	5.32	.450	73.7	.510	.130	.680	7.39	-.170	.750	9.04	1.08	.840	.640	107	.250	.120	73.3	.220	-.240	.490	.790	.440	2.68
IPC019SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC019SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC019SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	47.0	1.18	1.19	.970	.380	5.02	.670	67.4	.740	.240	.950	10.5	.790	.610	10.8	.880	1.11	.970	73.8	.840	.120	41.4	.160	.090	.150	.880	.450	2.84
IPC003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC003WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C074-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	17.8	1.17	.060	.840	.260	4.87	.340	157	.260	.050	.470	8.99	.650	.320	9.17	.750	.670	.370	73.5	1.19	-.030	35.9	.170	.420	.400	.960	.250	6.78

IPC018WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC018WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	10.8	.110	.950	.800	.230	4.29	.350	69.8	.200	-.020	.280	5.43	.080	.530	6.88	.560	.690	.460	153	-.440	.050	286	.130	.150	.040	.760	.210	3.06
IPC019SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B127-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1103	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1104	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	24.4	1.04	2.54	.940	.340	3.01	.410	84.7	.450	.180	.490	10.4	.530	.830	10.4	.830	.720	.330	69.5	.830	.080	119	.120	.110	.140	.510	.370	3.65
C011-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C011-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	15.0	.660	.070	.720	.220	3.02	.290	72.4	.310	.020	.060	.030	.450	.940	5.02	.530	.640	.180	170	.170	.180	496	.200	.280	.290	.750	.200	3.02

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C012001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8C012002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8C012003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8C012004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8C012005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8C012006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8C012007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8C012008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8C012009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8C012010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8C012011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8C012012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8C012013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8C012014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8C012015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLC1101		ID8C012016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLC1102		ID8C012017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8C012018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8C012019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8C012020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8C012021			1	☒	3XIDL	None
22	37	2	1	4	QC	IPC021WB		ID8C012022			1	☒	1/2LOQ	None
23	52	2	4	5	QC	IPC021WL		ID8C012023			1	☒	LCS	None
24	53	2	5	5	QC	IPC021WC		ID8C012024			1	☒	LCS	None
25	54	2	6	5	QC	TXC004WB	TCLP	ID8C012025			1	☒	1/2LOQ	None
26	55	2	7	5	Unk	C448-02A	TCLP	ID8C012026			1	☒	unk	---
27	56	2	8	5	Unk	C448-02	TCLP	ID8C012027			1	☒	unk	---
28	57	2	9	5	Unk	C448-02J	TCLP	ID8C012028			1	☒	unk	---
29	58	2	10	5	Unk	C448-02M	TCLP	ID8C012029			1	☒	unk	---
30	59	2	11	5	Unk	C448-02S	TCLP	ID8C012030			1	☒	unk	---
31	60	2	12	5	Blank	Blank		ID8C012031			1	☐		---
32	61	3	1	1	QC	CCV2		ID8C012032			1	☒	CCV	None
33	62	3	2	1	QC	CCB2		ID8C012033			1	☒	3XIDL	None
34	63	3	3	1	QC	IPC019SB		ID8C012034			1	☒	1/2LOQ	None
35	64	3	4	1	QC	IPC019SL		ID8C012035			1	☒	LCS	None
36	65	3	5	1	QC	IPC019SC		ID8C012036			1	☒	LCS	None
37	66	3	6	1	Unk	C074-03A	dried & sieved	ID8C012037			1	☒	unk	---
38	67	3	7	1	Unk	C074-03	dried & sieved	ID8C012038			1	☒	unk	---
39	68	3	8	1	Unk	C074-03J	dried & sieved	ID8C012039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	69	3	9	1	Unk	C074-04	dried & sieved	ID8C012040			1	☒	unk	---
41	70	3	10	1	Unk	C074-11	dried & sieved	ID8C012041			1	☒	unk	---
42	71	3	11	1	Unk	C074-12	dried & sieved	ID8C012042			1	☒	unk	---
43	72	3	12	1	Blank	Blank		ID8C012043			1	☐		---
44	73	3	1	2	QC	CCV3		ID8C012044			1	☒	CCV	None
45	74	3	2	2	QC	CCB3		ID8C012045			1	☒	3XIDL	None
46	9	2	9	1	QC	IPC003WB	3005	ID8C012046			1	☒	1/2LOQ	None
47	10	2	10	1	QC	IPC003WL	3005	ID8C012047			1	☒	LCS	None
48	11	2	11	1	QC	IPC003WC	3005	ID8C012048			1	☒	LCS	None
49	12	2	12	1	QC	IPC003WX	3005	ID8C012049			1	☒	LCS	None
50	13	2	1	2	QC	IPC003WY	3005	ID8C012050			1	☒	LCS	None
51	75	3	3	2	Unk	C074-19	dried & sieved	ID8C012051			1	☒	unk	---
52	14	2	2	2	Blank	Blank		ID8C012052			1	☐		---
53	15	2	3	2	QC	CCV4		ID8C012053			1	☒	CCV	None
54	16	2	4	2	QC	CCB4		ID8C012054			1	☒	3XIDL	None
55	17	2	5	2	QC	IPC018WB		ID8C012055			1	☒	1/2LOQ	None
56	18	2	6	2	QC	IPC018WL		ID8C012056			1	☒	LCS	None
57	19	2	7	2	QC	IPC018WC		ID8C012057			1	☒	LCS	None
58	20	2	8	2	Unk	C011-01A		ID8C012058			1	☒	unk	---
59	21	2	9	2	Unk	C011-01		ID8C012059			1	☒	unk	---
60	22	2	10	2	Unk	C011-01J		ID8C012060			1	☒	unk	---
61	23	2	11	2	Unk	C011-01M		ID8C012061			1	☒	unk	---
62	24	2	12	2	Unk	C011-01S		ID8C012062			1	☒	unk	---
63	25	2	1	3	Unk	C011-02		ID8C012063			1	☒	unk	---
64	26	2	2	3	Blank	Blank		ID8C012064			1	☐		---
65	27	2	3	3	QC	CCV5		ID8C012065			1	☒	CCV	None
66	28	2	4	3	QC	CCB5		ID8C012066			1	☒	3XIDL	None
67	29	2	5	3	Unk	C011-03		ID8C012067			1	☒	unk	---
68	30	2	6	3	Unk	C011-04		ID8C012068			1	☒	unk	---
69	31	2	7	3	Unk	C011-05		ID8C012069			1	☒	unk	---
70	32	2	8	3	Unk	C011-06		ID8C012070			1	☒	unk	---
71	33	2	9	3	Unk	C011-07		ID8C012071			1	☒	unk	---
72	34	2	10	3	Unk	C011-08		ID8C012072			1	☒	unk	---
73	35	2	11	3	Unk	C011-09		ID8C012073			1	☒	unk	---
74	36	2	12	3	Unk	C011-10		ID8C012074			1	☒	unk	---
75	38	2	2	4	Blank	Blank		ID8C012075			1	☐		---
76	39	2	3	4	QC	CCV6		ID8C012076			1	☒	CCV	None
77	40	2	4	4	QC	CCB6		ID8C012077			1	☒	3XIDL	None
78	41	2	5	4	Unk	B127-01		ID8C012078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	42	2	6	4	Unk	B127-03		ID8C012079			1	☒	unk	—
80	43	2	7	4	Unk	B127-06		ID8C012080			1	☒	unk	—
81	44	2	8	4	Unk	B127-01T	10X	ID8C012081			1	☒	unk	—
82	45	2	9	4	Unk	B127-03T	10X	ID8C012082			1	☒	unk	—
83	46	2	10	4	Unk	B127-06T	10X	ID8C012083			1	☒	unk	—
84	47	2	11	4	Blank	Blank		ID8C012084			1	☐		—
85	48	2	12	4	QC	MRLC1103		ID8C012085			1	☒	MRL-EMAX	None
86	49	2	1	5	QC	MRLC1104		ID8C012086			1	☒	MRL-AFCEE	None
87	50	2	2	5	QC	CCV7		ID8C012087			1	☒	CCV	None
88	51	2	3	5	QC	CCB7		ID8C012088			1	☒	3XIDL	None
89	76	3	4	2	Unk	C089-01		ID8C012089			1	☒	unk	—
90	77	3	5	2	Unk	C089-01M		ID8C012090			1	☒	unk	—
91	78	3	6	2	Unk	C089-01S		ID8C012091			1	☒	unk	—
92	79	3	7	2	Unk	C089-02		ID8C012092			1	☒	unk	—
93	80	3	8	2	Unk	C089-03		ID8C012093			1	☒	unk	—
94	81	3	9	2	Unk	C089-04		ID8C012094			1	☒	unk	—
95	82	3	10	2	Unk	C089-05		ID8C012095			1	☒	unk	—
96	83	3	11	2	Unk	C089-06		ID8C012096			1	☒	unk	—
97	84	3	12	2	Unk	C089-07		ID8C012097			1	☒	unk	—
98	85	3	1	3	Blank	Blank		ID8C012098			1	☐		—
99	86	3	2	3	QC	CCV8		ID8C012099			1	☒	CCV	None
100	87	3	3	3	QC	CCB8		ID8C012100			1	☒	3XIDL	None
101	88	3	4	3	Unk	C089-08		ID8C012101			1	☒	unk	—
102	89	3	5	3	Unk	C089-09		ID8C012102			1	☒	unk	—
103	90	3	6	3	Unk	C089-10		ID8C012103			1	☒	unk	—
104	91	3	7	3	Unk	C089-11		ID8C012104			1	☒	unk	—
105	92	3	8	3	Unk	C089-12		ID8C012105			1	☒	unk	—
106	93	3	9	3	Unk	C089-13		ID8C012106			1	☒	unk	—
107	94	3	10	3	Blank	Blank		ID8C012107			1	☐		—
108	95	3	11	3	QC	CCV9		ID8C012108			1	☒	CCV	None
109	96	3	12	3	QC	CCB9		ID8C012109			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00103	.00002	-.00001	.00018	.00005	.00030	-.00005	.00025	.00000	-.00088	Blank
2	S20					.87821		.11545				S20
3	S21					8.6431		1.1125				S21
4	S22				.46727						.15659	S22
5	S23				4.5629						1.6259	S23
6	S24						.09107					S24
7	S25						.94892					S25
8	S26	.24975							.87827	.13199		S26
9	S27	9.0286							8.1209	1.2674		S27
10	S28		.00536									S28
11	S29		.05259									S29
12	S30			.00124								S30
13	S31			.00498								S31
14	ICV	106.09	1.5116	1.0708	1.9906	1.5027	2.4638	1.9616	75.572	2.4484	.95355	ICV
15	ICB	.02468	.00078	.00089	.00068	.00021*	.00513	.00021	.06516	.00013	-.00002	ICB
16	MRLC1101	.21228	.09911	.01107	.01030	.01014	.01256*	.01035	1.0519	.01051	.00923	MRLC1101
17	MRLC1102	.21664	.04887	.01108	.00577	.00426	.09592	.00516	.58862	.01039	.00888	MRLC1102
18	ICSA1	392.24	.00624	-.00089	.00268	.00001	.03030	-.00131	474.12	.00001	-.00209	ICSA1
19	ICSAB1	397.45	1.0018	1.0648	.53032	.49424	.52739	.93303	478.16	.47405	.46648	ICSAB1
20	CCV1	105.82	1.4903	1.0522	2.0045	1.5077	2.4774	1.9215	75.915	2.4606	.95664	CCV1
21	CCB1	.02752	.00152	.00243	.00078	.00033*	.00520	.00038	.06308	.00059	.00002	CCB1
22	IPC021WB	.06307	-.00004	.00005	.00053	.00035	.00493	.00025	.08068	.00055	.00003	IPC021WB
23	IPC021WL	5.5355	2.5044	.53611	.50017	.51427	.50963	.50759	50.892	.50895	.48083	IPC021WL
24	IPC021WC	5.2169	2.3876	.51172	.47258	.48513	.48836	.49250	48.838	.48377	.45428	IPC021WC
25	TXC004WB	.01985	.00150	-.00020	.00127	.00014	.01638	.00011	.06614	.00032	-.00013	TXC004WB
26	C448-02A	5.7984	2.4770	.55946	.79635	.52615	.69234	.51470	69.242	.51866	.50983	C448-02A
27	C448-02	.05678	.00444	.00144	.29101	.00006	.18492	.00009	18.088	.00054	.00968	C448-02
28	C448-02J	.00934	.00101	.00015	.06011	.00004	.03597	.00004	3.8061	.00009	.00187	C448-02J
29	C448-02M	5.5668	2.5378	.54519	.79515	.50667	.70469	.50336	69.452	.49906	.48826	C448-02M
30	C448-02S	5.6487	2.5166	.54631	.78524	.51487	.69636	.50306	68.552	.51023	.49560	C448-02S
31	Blank	.00323	.00134	.00025	.00068	.00012	.00241	.00013	.16779	.00001	.00000	Blank
32	CCV2	106.27	1.4901	1.0511	2.0069	1.5070	2.4752	1.9279	76.008	2.4738	.95170	CCV2
33	CCB2	.03249	.00117	.00089	.00122	.00054*	.00532	.00045*	.07366	.00051	.00013	CCB2
34	IPC019SB	.06445	.00103	.00036	.00097	.00077	.00758	.00015	.81089*	.00137	.00000	IPC019SB
35	IPC019SL	5.2337	2.4234	.51540	.49914	.51049	.46869	.49566	51.983	.50772	.49468	IPC019SL
36	IPC019SC	5.1795	2.3868	.50791	.49547	.50677	.46634	.48827	51.891	.50587	.49181	IPC019SC
37	C074-03A	110.36	2.3527	.61514	2.5742	.52141	.51215	.49095	80.228	.72561	.74599	C074-03A
38	C074-03	105.97	.01410	.10537	2.1246	.01033	.05990	.01775	30.341	.23470	.25821	C074-03
39	C074-03J	22.118	.00317	.02153	.42654	.00212	.01202	.00359	6.4028	.04830	.05012	C074-03J
40	C074-04	129.95	.01122	.10605	1.5552	.01142	.06032	.00548	26.322	.23642	.08530	C074-04
41	C074-11	94.441	.00690	.06805	1.5889	.00815	.04074	.03159	23.933	.16905	.11494	C074-11
42	C074-12	87.945	.01680	.14384	1.0171	.00914	.07993	.06905	51.997	.29459	.07684	C074-12
43	Blank	.05767	.00026	.00075	.00097	.00006	-.00032	.00011	.17065	.00017	-.00013	Blank
44	CCV3	106.25	1.5229	1.0827	1.9935	1.5024	2.4808	1.9982	75.736	2.4769	.95250	CCV3
45	CCB3	.04699	.00118	.00119	.00097	.00038*	.00502	.00067*	.06743	.00074	.00024	CCB3
46	IPC003WB	.01719	.00019	.00003	.00013	.00005	.00184	.00009	.07704	.00006	-.00010	IPC003WB
47	IPC003WL	6.3696*	2.9007	.62867*	.57511	.58941	.58169	.59509	58.338	.58631	.55333	IPC003WL
48	IPC003WC	5.5422	2.4870	.53404	.50068	.51319	.50400	.50903	51.111	.50771	.48207	IPC003WC
49	IPC003WX	5.4952	2.4647	.53312	.50323	.51392	.50750	.50602	50.555	.51025	.47970	IPC003WX
50	IPC003WY	5.5974	2.5067	.54240	.50916	.52130	.51337	.51268	51.448	.51628	.48671	IPC003WY
51	C074-19	87.996	.01431	.09831	1.1982	.00888	.06163	.03761	127.95	.16378	.08112	C074-19
52	Blank	.08226	.00077	.00052	.00166	.00018	-.00040	.00022	.36841	.00043	.00002	Blank
53	CCV4	106.19	1.4868	1.0560	2.0140	1.5023	2.4812	1.9421	75.379	2.4646	.95466	CCV4
54	CCB4	.01780	.00117	.00006	.00084	.00026*	.00487	.00034	.15749	.00026	.00005	CCB4

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
55	IPC018WB	.09705	.00044	.00028	.00013	.00002	.00240	.00005	.02089	.00007	-.00012	IPC018WB
56	IPC018WL	5.4873	2.4807	.53464	.49747	.51020	.50490	.50624	51.520	.50568	.48002	IPC018WL
57	IPC018WC	5.5002	2.5140	.54068	.49919	.51124	.50554	.51371	51.357	.50736	.48236	IPC018WC
58	C011-01A	7.4993	2.7456	.61529	.56342	.50510	1.1208	.49728	110.77	.50597	.50429	C011-01A
59	C011-01	1.8446	.00168	.00089	.04953	.00131	.57974	.00036	60.938	.00203	.01371	C011-01
60	C011-01J	.33698	.00048	-.00013	.00966	.00029	.10986	.00013	12.762	.00035	.00245	C011-01J
61	C011-01M	8.0012	2.7511	.60782	.55939	.49675	1.1400	.48659	112.67	.49703	.49632	C011-01M
62	C011-01S	8.7855	2.9075	.63841	.60097	.52697	1.2223	.50901	119.23	.52146	.52743	C011-01S
63	Blank	.00530	.00123	.00028	.00024	.00013	.00142	.00020	.08559	.00014	.00006	Blank
64	CCV5	104.53	1.4883	1.0533	2.0040	1.4939	2.4627	1.9220	75.532	2.4490	.95569	CCV5
65	CCB5	.01077	.00011	.00095	.00080	.00023*	.00429	.00035	.06976	.00020	-.00002	CCB5
66	IPC019SQ	.05863	.00161	.00008	.00071	.00043	.00729	.00028	.77852*	.00149	-.00007	IPC019SQ
67	B127-01	2.7862	.51632	.50309	.43449	.66884	1.4619	.58264	.40723	.44288	.26565	B127-01
68	B127-03	.00558	.00380	.00033	.00006	.00010	.01728	.00019	.03138	.00007	-.00010	B127-03
69	B127-06	.00588	-.00052	-.00005	.00045	.00017	.02351	.00013	79.104	.00044	-.00034	B127-06
70	B127-01T	.27301	.05137	.04980	.04414	.06648	.14681	.05866	.18304	.04424	.02614	B127-01T
71	B127-03T	-.00571	-.00010	.00098	.00004	.00001	.00102	.00005	.04436	.00001	-.00003	B127-03T
72	B127-06T	-.00446	-.00027	.00114	-.00001	.00002	.00129	.00004	8.1380	.00005	-.00019	B127-06T
73	Blank	-.00055	.00011	.00010	.00045	.00005	-.00104	.00008	.07543	.00009	-.00017	Blank
74	MRLC1103	.20261	.09779	.01124	.01004	.00999	.01027	.01016	1.0747	.01049	.00930	MRLC1103
75	MRLC1104	.21346	.05046	.01106	.00560	.00424	.09507	.00534	.57382	.01031	.00889	MRLC1104
76	CCV6	105.79	1.5049	1.0788	2.0028	1.5223	2.4833	2.0091	76.615	2.5159	.95212	CCV6
77	CCB6	.02436	.00104	.00254	.00094	.00034*	.00301	.00041*	.08465	.00045	.00018	CCB6
78	C011-02	1.9385	.00230	.00020	.04958	.00155	.61383	.00059	63.150	.00244	.01395	C011-02
79	C011-03	3.3278	.00118	.01595	.03555	.00083	.45033	.00026	85.672	.00680	.00151	C011-03
80	C011-04	.04190	-.00028	.00746	.01876	.00003	.47187	.00023	59.397	.00107	.00030	C011-04
81	C011-05	1.7950	.00143	.00459	.01895	.00058	.09024	.00015	6.9986	.00320	.00099	C011-05
82	C011-06	.26595	.00087	.00170	.00220	.00002	.09400	.00013	1.2652	.00337	.00010	C011-06
83	C011-07	3.6907	.00093	.00410	.05210	.00262	.62386	.00030	50.806	.00394	.00874	C011-07
84	C011-08	2.8983	.00042	.00451	.05330	.00260	.65174	.00032	51.943	.00335	.00893	C011-08
85	C011-09	3.1791	.00032	.00422	.04631	.00202	.62962	.00023	65.340	.00589	.00570	C011-09
86	C011-10	1.6299	.00130	.00149	.04278	.00145	.64116	.00030	62.373	.00439	.00578	C011-10
87	Blank	.00821	.00002	.00061	.00025	.00003	-.00071	.00007	.02804	.00008	-.00002	Blank
88	CCV7	110.27*	1.5285	1.1124*	2.0746	1.5334	2.5521	2.0389	73.694	2.5497	.96732	CCV7
89	CCB7	.01502	.00066	.00007	.00072	.00022*	.00302	.00029	.07241	.00031	.00002	CCB7

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00136	-.00001	.00007	00000	.00001	.00030	-.00001	-.00055	-.00026	.00000	Blank
2	S20			.19556			.11148					S20
3	S21			1.9610			1.1098					S21
4	S22	.32273	.05792									S22
5	S23	3.1151	2.1703									S23
6	S24							.75514				S24
7	S25							7.6476				S25
8	S26								.77862	.32283		S26
9	S27								7.3660	3.2028		S27
10	S28					.10871						S28
11	S29					.43912						S29
12	S30				.02813						.00137	S30
13	S31				.13826						.00542	S31
14	ICV	2.4932	24.662	2.4210	.51982	56.570	2.3246	2.5078	2.4948	58.606	1.0660	ICV
15	ICB	.00033	.00273	.00038	00031	-.00070	.00053	.00046	.00035	.07740	-.00178	ICB
16	MRLC1101	.01029	.21908	.00993	.01098	.94537	.00996	.01024	.01040	.98420	.01003	MRLC1101
17	MRLC1102	.01043	.10932	.00258	.09892	.18555	.00530	.00980	.01042	.98358	.01072	MRLC1102
18	ICSA1	.00117	180.60	.00249	.00549	183.56	.00169	-.00106	.00052	-.01951	.00093	ICSA1
19	ICSAB1	.52932	182.95	.93573	1.1182	188.52	.45545	1.0043	.98405	78.829	1.0593	ICSAB1
20	CCV1	2.5045	24.721	2.4202	.52790	56.572	2.3379	2.5192	2.5051	60.141	1.0439	CCV1
21	CCB1	.00046	.00839	.00018	.00040	.00776	.00070	.00072	.00040	.09401	.00014	CCB1
22	IPC021WB	.00074	.02910	.00009	.00066	.02978	.00076	.00036	.00035	.04962	.00017	IPC021WB
23	IPC021WL	.51507	5.2322	.49859	.00117*	47.051	.48373	.50325	.45186	48.942	.53111	IPC021WL
24	IPC021WC	.48596	4.9648	.47905	.00085*	45.102	.45679	.47862	.42738	46.442	.50803	IPC021WC
25	TXC004WB	.00119	.01420	-.00027	00009	.00909	.00039	.00044	.00005	.21371	.00104	TXC004WB
26	C448-02A	.53729	6.5186	.51297	.00236	52.231	.63442	.51098	.53335	53.738	.56046	C448-02A
27	C448-02	.00201	1.2595	.00123	.00166	4.4084	.14736	.00137	.05660	2.6659	.00106	C448-02
28	C448-02J	.00049	.26163	-.00052	.00018	.91657	.03074	.00033	.01144	.56200	-.00048	C448-02J
29	C448-02M	.51624	6.3970	.49310	.00303	51.684	.62455	.50840	.50723	52.654	.54499	C448-02M
30	C448-02S	.52421	6.4085	.49871	.00207	51.729	.62367	.51322	.50968	53.277	54229	C448-02S
31	Blank	.00013	.00147	.00009	-.00006	.00373	.00038	.00019	.00018	.10904	-.00003	Blank
32	CCV2	2.4983	24.727	2.4169	.52649	56.658	2.3381	2.4995	2.4924	60.258	1.0425	CCV2
33	CCB2	.00068	.00739	-.00017	.00075	.00904	.00108	.00084*	.00064	.10727	.00025	CCB2
34	IPC019SB	.00544*	.06409	.00067	.00056	.03652	.00822*	.00052	.09864*	.12713	.00031	IPC019SB
35	IPC019SL	.50729	5.1781	.49933	.00036*	47.882	48151	.53272	.46531	49.253	.50729	IPC019SL
36	IPC019SC	.50343	5.1237	.49513	.00032*	47.815	.47890	.53000	.47085	49.137	.49954	IPC019SC
37	C074-03A	.62092	214.04	2.7669	.04408	55.173	16.324	.52968	.59714	57.709	.51800	C074-03A
38	C074-03	.09699	216.93	2.3923	.04363	8.3192	16.523	.00814	.12853	7.8895	.00573	C074-03
39	C074-03J	.01958	45.793	.48609	.00924	1.7233	3.4282	.00154	.02522	1.5844	.00096	C074-03J
40	C074-04	.10392	214.21	4.9569	.05716	9.5895	5.4970	.00724	.11101	9.6041	.00735	C074-04
41	C074-11	.10024	157.61	.62354	.04042	7.4890	8.8487	.00474	.08708	6.5263	.00661	C074-11
42	C074-12	.17620	309.47	1.6308	.03925	6.6241	2.5264	.01366	.11933	7.7243	.00769	C074-12
43	Blank	.00018	.15852	.00136	.00016	.00221	.00141	.00013	.00010	.00390	.00047	Blank
44	CCV3	2.5019	24.818	2.4241	.51819	56.635	2.3316	2.4942	2.4905	59.031	1.0746	CCV3
45	CCB3	.00095	.01050	.00079	.00061	.01084	.00088	.00111*	.00097	.07381	.00084	CCB3
46	IPC003WB	.00035	.00387	-.00013	.00004	.00158	.00027	.00023	.00001	.02456	.00033	IPC003WB
47	IPC003WL	.59723	5.9562	.57387	.00120*	53.996	.55343	.57584	.51916	56.215	.62676*	IPC003WL
48	IPC003WC	.51712	5.1865	.49819	.00076*	47.373	.48312	.50221	.45190	49.280	.53381	IPC003WC
49	IPC003WX	.51581	5.1946	.49549	.00085*	47.194	.48300	.49774	.45031	49.457	.52871	IPC003WX
50	IPC003WY	.52223	5.2899	.50452	.00021*	48.083	.48965	.50708	.45676	50.166	.53431	IPC003WY
51	C074-19	.11551	212.95	1.0209	.04624	6.8086	3.9277	.00834	.13268	9.1593	.00707	C074-19
52	Blank	.00047	.17812	.00017	-.00011	.01266	.00406	.00025	.00028	.04528	-.00031	Blank
53	CCV4	2.5246	24.545	2.4172	.52641	56.205	2.3355	2.4930	2.4993	60.115	1.0529	CCV4
54	CCB4	.00047	.00899	.00065	.00032	.00917	.00075	.00067	.00037	.07349	.00119	CCB4

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
55	IPC018WB	.00037	.00397	-.00009	.00036	-.00158	.00027	.00009	.00013	.02517	-.00020	IPC018WB
56	IPC018WL	.51290	5.1780	.49700	.00090*	47.598	.48015	.50019	.45033	49.585	.52906	IPC018WL
57	IPC018WC	.51487	5.1905	.50165	.00127*	47.295	.47999	.50160	.45297	49.076	.53920	IPC018WC
58	C011-01A	.57610	5.1452	.49330	.12422	246.13	.62117	.51580	.50220	68.036	.61222	C011-01A
59	C011-01	.00704	.04496	.00068	.12334	195.95	.14831	-.00043	.03853	11.132	.00324	C011-01
60	C011-01J	.00152	.00373	.00016	.02251	39.087	.03078	-.00016	.00785	2.2134	.00012	C011-01J
61	C011-01M	.56625	5.1046	.48272	.13015	253.46	.61932	.51961	.48718	68.416	.60141	C011-01M
62	C011-01S	.61161	5.4590	.51105	.14202	267.80	.65479	.55227	.51727	74.968	.63666	C011-01S
63	Blank	.00026	.00172	-.00053	.00055	.03047	.00028	.00024	.00009	.65009	-.00040	Blank
64	CCV5	2.4836	24.567	2.4164	.52173	55.930	2.3176	2.5143	2.4981	60.035	1.0474	CCV5
65	CCB5	.00028	.00543	.00008	.00053	.00688	.00056	.00069	.00046	.15304	-.00044	CCB5
66	IPC019SQ	.00516*	.06222	.00035	.00048	.01998	.00092	.00068	.09743*	.15813	.00161	IPC019SQ
67	B127-01	.32201	2.6322	.76188	-.00006	-.00464	.55719	.37657	.45286	.07668	.98460	B127-01
68	B127-03	.00036	.00627	-.00016	.00012	.00109	.00041	.00017	.00020	.05907	.00009	B127-03
69	B127-06	.00048	-.00101	-.00019	.00052	20.457	.00096	.00009	.00012	24.500	.00011	B127-06
70	B127-01T	.03176	.26424	.07607	-.00017	-.00060	.05587	.03733	.04502	.07489	.09806	B127-01T
71	B127-03T	-.00021	.00127	-.00030	.00017	.00129	.00018	.00004	.00010	.05342	-.00064	B127-03T
72	B127-06T	-.00010	.00259	-.00012	.00043	2.0661	.00024	.00000	.00006	2.3642	.00025	B127-06T
73	Blank	-.00010	.00023	-.00047	.00030	-.00342	.00025	.00010	.00006	.02465	-.00055	Blank
74	MRLC1103	.00973	.21737	.00984	.01088	.94136	.00997	.00999	.01012	.97193	.00924	MRLC1103
75	MRLC1104	.01027	.10969	.00305	.09888	.19691	.00555	.00973	.01040	.98802	.01121	MRLC1104
76	CCV6	2.5005	24.842	2.4044	.52512	57.673	2.3709	2.4904	2.4854	59.783	1.0655	CCV6
77	CCB6	.00049	.01041	.00053	.00083	.01044	.00083	.00072	.00033	.06951	.00083	CCB6
78	C011-02	.00840	.00983	.00114	.12733	208.21	.15682	-.00011	.03955	10.739	.00286	C011-02
79	C011-03	.00467	3.7865	.00424	.05857	118.56	.13511	.00118	.00929	7.5276	.00354	C011-03
80	C011-04	.00783	.01063	.00012	.03158	95.560	.07842	.00068	.00401	6.3805	.01006	C011-04
81	C011-05	.01029	.87969	.00193	.00509	2.7587	.06036	.00227	.00649	1.3790	.00254	C011-05
82	C011-06	.00467	.15729	.00020	.00397	.48489	.00652	.00502	.00494	.97384	.00289	C011-06
83	C011-07	.01023	.43841	.00127	.10119	147.98	.15179	-.00050	.02475	8.7862	.00507	C011-07
84	C011-08	.14936	.07938	.00176	.10431	151.04	.16296	-.00040	.02595	9.6129	.00361	C011-08
85	C011-09	.00921	1.2872	.00058	.10633	180.52	.13494	-.00057	.01704	10.436	.00407	C011-09
86	C011-10	.00635	.05254	.00073	.10331	170.15	.17687	-.00053	.01913	10.311	.00483	C011-10
87	Blank	-.00004	.00042	-.00034	.00034	-.00088	.00004	.00018	-.00003	.28722	.00007	Blank
88	CCV7	2.6858	24.594	2.4056	.54637	55.935	2.3665	2.5256	2.5238	60.793	1.1126*	CCV7
89	CCB7	.00006	.00003	.00045	.00094	.00502	.00053	.00064	.00018	.16953	.00017	CCB7

ID8C012 Section 2 of 3

ID8C012 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00012	.00077	-.00013	-.00001	.00006	-.00005	-.00013	.00052	Blank
2	S20									S20
3	S21									S21
4	S22							.14436		S22
5	S23							1.4376		S23
6	S24		1.0671							S24
7	S25		6.2041							S25
8	S26									S26
9	S27									S27
10	S28				.00588					S28
11	S29				.05593					S29
12	S30	.04122		.12787		.02623	.01577		.58605	S30
13	S31	.20133		.62292		.12752	.07808		5.7146	S31
14	ICV	.50575	61.979	.48777	2.3848	.50183	.49432	1.4716	2.6901	ICV
15	ICB	.00008	.03005	.00009	-.00043	.00026	.00073	.00014	.00317	ICB
16	MRLC1101	.01013	1.0331	.01027	.01060	.00035	.01070	.01017	.02171	MRLC1101
17	MRLC1102	.01020	.51593	.01046	.01046	.00956	.01065	.01024	.01404*	MRLC1102
18	ICSA1	.00031	.11566	.00095	.00300	.00168	.00412	.00244	.00644	ICSA1
19	ICSAB1	1.0976	82.069	.49936	.84152	.97310	.97619	.48226	1.0598	ICSAB1
20	CCV1	.50778	63.165	.49317	2.3355	.50307	.49346	1.4743	2.6833	CCV1
21	CCB1	.00014	.04934	.00013	-.00005	.00036	.00092	.00035	.00175	CCB1
22	IPC021WB	.00013	.03968	.00024	.00018	.00039	.00101	.00033	.00282	IPC021WB
23	IPC021WL	.51686	51.357	.47704	.50517	.49127	.50824	.50559	.55052	IPC021WL
24	IPC021WC	.50101	49.075	.45345	.49115	.47118	.48360	.48015	.52254	IPC021WC
25	TXC004WB	.00021	329.98*	.00147	-.00150	.00146	.00094	.00016	.00575	TXC004WB
26	C448-02A	.51789	152.15	.61283	.49809	.49283	.50529	.51977	1.6469	C448-02A
27	C448-02	.00004	101.64	.14398	-.00100	.00116	.00136	.00160	1.1079	C448-02
28	C448-02J	.00006	20.849	.02959	.00036	.00021	.00083	.00039	.22160	C448-02J
29	C448-02M	.52127	156.91	.61868	.48684	.49148	.50519	.50079	1.7004	C448-02M
30	C448-02S	.52652	151.37	.61763	.48430	.49428	.51039	.50764	1.6289	C448-02S
31	Blank	.00006	.11452	.00018	-.00031	.00043	.00068	.00017	.00934	Blank
32	CCV2	.50743	63.171	.49368	2.3469	.50225	.49509	1.4712	2.6810	CCV2
33	CCB2	.00012	.07326	.00022	-.00024	.00049	.00079	.00044	.00268	CCB2
34	IPC019SB	.00001	.11150	.00084	-.00141	.04403	.00062	.00071	.30799*	IPC019SB
35	IPC019SL	.49519	51.809	.47468	.48156	.54433	.51077	.51043	.56348	IPC019SL
36	IPC019SC	.49120	51.747	.47372	.47349	.54052	.50704	.50454	.58747	IPC019SC
37	C074-03A	.49124	52.896	.58292	.44676	.53278	1.8524	.91638	3.3914	C074-03A
38	C074-03	-.00081	.53738	.10906	-.00321	.04991	1.3990	.43027	2.9542	C074-03
39	C074-03J	-.00002	.11349	.02211	-.00059	.01029	.28258	.08756	.58339	C074-03J
40	C074-04	-.00065	.65064	.11316	-.00142	.05049	1.4725	.41628	1.9340	C074-04
41	C074-11	-.00069	.54199	.09571	-.00111	.05452	1.3649	.31823	6.3971	C074-11
42	C074-12	.00008	.73344	.08753	.00239	.05337	1.0834	.42821	13.340	C074-12
43	Blank	.00000	.00625	.00010	-.00035	.00023	.00135	.00027	.01138	Blank
44	CCV3	.51062	62.091	.48991	2.4283	.50057	.49375	1.4761	2.6917	CCV3
45	CCB3	.00012	.04145	.00016	.00009	.00015	.00088	.00045	.00284	CCB3
46	IPC003WB	-.00008	.01225	.00025	-.00029	.00024	.00078	.00013	.00527	IPC003WB
47	IPC003WL	.59879	59.115	.55029	.58953	.55768	.58172	.57625	.62182*	IPC003WL
48	IPC003WC	.51524	51.724	.47853	.50483	.48583	.50688	.50242	.54071	IPC003WC
49	IPC003WX	.51748	52.142	.48104	.50112	.48454	.50521	.50172	.54108	IPC003WX
50	IPC003WY	.52255	52.907	.48599	.50839	.49447	.51366	.51116	.54933	IPC003WY
51	C074-19	.00026	.95707	.12856	.00086	.05169	1.1002	.27229	5.4845	C074-19
52	Blank	.00006	.01883	.00024	.00006	.00026	.00158	.00034	.01145	Blank
53	CCV4	.50975	63.087	.49562	2.3540	.49662	.49330	1.4649	2.6702	CCV4
54	CCB4	-.00003	.03586	.00017	.00042	.00040	.00096	.00025	.00678	CCB4

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
55	IPC018WB	.00003	.01631	.00016	-.00072	.00020	.00096	.00004	.00227	IPC018WB
56	IPC018WL	.51359	51.991	.47516	.50131	.48685	.50571	.50066	.53935	IPC018WL
57	IPC018WC	.51629	51.553	.47556	.51027	.48946	.50652	.50263	.54240	IPC018WC
58	C011-01A	.59891	1719.5*	.82515	.44175	.48965	.50171	.51052	.60153	C011-01A
59	C011-01	.00021	1631.3*	.34677	-.00160	.00110	.00334	.00107	.02555	C011-01
60	C011-01J	.00001	353.43	.06888	-.00099	.00018	.00133	.00005	.00982	C011-01J
61	C011-01M	.61060	1752.8*	.84240	.43175	.49086	.50585	.50193	.59046	C011-01M
62	C011-01S	.65596	1840.5*	.90619	.44966	.52096	.54321	.53088	.62348	C011-01S
63	Blank	.00006	1.5007	.00014	-.00022	.00020	.00067	.00016	.00275	Blank
64	CCV5	.50463	62.961	.49222	2.3385	.50499	.49237	1.4679	2.6796	CCV5
65	CCB5	.00005	.28562*	.00013	.00015	.00004	.00076	.00021	.00306	CCB5
66	IPC019SQ	.00007	.28540	.00069	-.00011	.04362	.00092	.00066	.30567*	IPC019SQ
67	B127-01	.46995	.20897	.19706	.63569	.00057	-.00103	1.3345	.30703	B127-01
68	B127-03	.00013	.17112	.00010	.00005	2.3375	.13522	.00045	.00252	B127-03
69	B127-06	.00010	64.073	.00775	-.00031	.00067	.00177	.00022	.00325	B127-06
70	B127-01T	.04690	.16173	.01988	.06373	-.00019	.00037	.13335	.03594	B127-01T
71	B127-03T	-.00009	.12448	.00003	-.00038	.23829	.01441	.00015	.00283	B127-03T
72	B127-06T	-.00007	6.3682	.00081	-.00045	.00025	.00078	.00000	.00516	B127-06T
73	Blank	-.00012	.10413	.00006	-.00048	.00042	.00078	-.00004	.00281	Blank
74	MRLC1103	.01001	1.1206	.01008	.01009	.00015	.01088	.00992	.02232	MRLC1103
75	MRLC1104	.01030	.59837	.01037	.01139	.00999	.01080	.01034	.01256*	MRLC1104
76	CCV6	.51368	62.884	.49509	2.4256	.49390	.49781	1.4800	2.6829	CCV6
77	CCB6	.00008	.11868*	.00012	.00011	.00014	.00051	.00037	.00365	CCB6
78	C011-02	.00031	1739.7*	.35143	-.00123	.00033	.00159	.00150	.03465	C011-02
79	C011-03	-.00022	1457.7*	.75016	-.00108	.00024	.02943	.01245	.03646	C011-03
80	C011-04	-.00004	1338.6*	.57134	-.00205	.00015	.00148	.00463	.00975	C011-04
81	C011-05	-.00008	90.156	.06074	-.00042	.00040	.00922	.00627	.01452	C011-05
82	C011-06	-.00021	91.966	.01110	-.00050	.00027	.01222	.00270	.00605	C011-06
83	C011-07	.00002	1585.7*	.38874	-.00119	.00072	.01361	.00257	.01699	C011-07
84	C011-08	-.00002	1615.0*	.39924	-.00190	.00608	.00169	.00128	.03731	C011-08
85	C011-09	-.00012	1825.3*	.42078	-.00170	.00057	.02106	.00321	.01484	C011-09
86	C011-10	.00008	1772.3*	.40557	-.00170	.00035	.00169	.00113	.01266	C011-10
87	Blank	-.00003	1.1803	.00006	-.00010	.00039	.00067	.00002	.00109	Blank
88	CCV7	.53241	64.353	.51267	2.4622	.48188	.49980	1.4747	2.6299	CCV7
89	CCB7	.00018	.49555*	.00020	.00028	.00029	.00075	.00020	.00302	CCB7

ID8C012 Section 3 of 3

7078A

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IPCOPS
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-302	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SM5B-02-147	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 111241117

Prepared By: HF
Standard Added By: HF Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPC019S01	IPC019SB	1	g	3/10/11 13:25	100	1	100	1	
11IPC019S02	IPC019SL	1	g	3/10/11 13:25	100	1	100	1	
11IPC019S03	IPC019SC	1	g	3/10/11 13:25	100	1	100	1	
11IPC019S04	C074-03	1.07	g	3/10/11 13:27	100	1	100	0.935	DRIED AND SIEVED
11IPC019S05	C074-04	1.06	g	3/10/11 13:28	100	1	100	0.943	DRIED AND SIEVED
11IPC019S06	C074-11	1.02	g	3/10/11 13:28	100	1	100	0.98	DRIED AND SIEVED
11IPC019S07	C074-12	1.09	g	3/10/11 13:29	100	1	100	0.917	DRIED AND SIEVED
11IPC019S08	C074-19	1.01	g	3/10/11 13:30	100	1	100	0.99	DRIED AND SIEVED
11IPC019S09	C089-01	1.04	g	3/10/11 13:32	100	1	100	0.962	
11IPC019S10	C089-01M	1.05	g	3/10/11 13:32	100	1	100	0.952	
11IPC019S11	C089-01S	1.21	g	3/10/11 13:33	100	1	100	0.826	
11IPC019S12	C089-02	1.21	g	3/10/11 13:34	100	1	100	0.826	
11IPC019S13	C089-03	1.14	g	3/10/11 13:35	100	1	100	0.877	
11IPC019S14	C089-04	1.35	g	3/10/11 13:36	100	1	100	0.741	
11IPC019S15	C089-05	1.12	g	3/10/11 13:41	100	1	100	0.893	
11IPC019S16	C089-06	1.05	g	3/10/11 13:42	100	1	100	0.952	
11IPC019S17	C089-07	1.17	g	3/10/11 13:43	100	1	100	0.855	
11IPC019S18	C089-08	1.21	g	3/10/11 13:45	100	1	100	0.826	
11IPC019S19	C089-09	1.05	g	3/10/11 13:46	100	1	100	0.952	
11IPC019S20	C089-10	1.03	g	3/10/11 13:47	100	1	100	0.971	
11IPC019S21	C089-11	1.16	g	3/10/11 13:49	100	1	100	0.862	
11IPC019S22	C089-12	1.03	g	3/10/11 13:50	100	1	100	0.971	
11IPC019S23	C089-13	1.16	g	3/10/11 13:51	100	1	100	0.862	

HF 3/10/11

Balance ID: 10304418. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 3/10/11 15:25 Prepared By: HF

☑ Digestion Ended @ 3/10/11 17:25 Checked By: TH

Comments: Date 3/10/11

7080

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11C089**

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GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7058 7059 – 7095
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-15-2011
EMAX Batch No.: 11C089

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 03/09/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB215-07-01	C089-01	03/07/11	SOIL	CADMIUM
CB215-07-02	C089-02	03/07/11	SOIL	CADMIUM
CB215-08-01	C089-03	03/07/11	SOIL	CADMIUM
CB215-08-02	C089-04	03/07/11	SOIL	CADMIUM
CB215-09-01	C089-05	03/07/11	SOIL	CADMIUM
CB215-09-02	C089-06	03/07/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-13-01	C089-07	03/06/11	SOIL	METALS BY ICP
CB231-13-02	C089-08	03/06/11	SOIL	CADMIUM
CB231-14-01	C089-09	03/06/11	SOIL	METALS BY ICP
CB231-14-02	C089-10	03/06/11	SOIL	CADMIUM
CP091-16-01	C089-11	03/06/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-16-01FD	C089-12	03/06/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-16-02	C089-13	03/06/11	SOIL	LEAD

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

for

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

CH_1002 —

Chain of Custody Record

11C089

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client	Project Manager		Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante		March 8, 2011	1 of 1
Address	**Telephone Number**	**Fax Number**		
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401		
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**	
Houston, TX 77079	John Ynfante	Contact John Ynfante		
Project Name	**Carrier/Waybill Number**	**CH2M HILL Project Number:**		
Tar Creek OU4	796845331467	413831.CV.01		
Samplers:				
SP/RC				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb-sieved	Zn	Cd				Comments
1	CB215-07-01	March 7, 2011	11:30	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
2	CB215-07-02	March 7, 2011	11:35	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
3	CB215-08-01	March 7, 2011	11:55	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
4	CB215-08-02	March 7, 2011	12:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
5	CB215-09-01	March 7, 2011	14:10	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
6	**CB215-09-02**	**March 7, 2011**	**14:15**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	x	x	x				**Sieved lead, zinc, and cadium**
7	**CB231-13-01**	**March 6, 2011**	**11:05**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**		x	x				**Zinc and Cadium only**
8	CB231-13-02	March 6, 2011	11:10	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
9	**CB231-14-01**	**March 6, 2011**	**11:50**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**		x	x				**Zinc and Cadium only**
10	CB231-14-02	March 6, 2011	12:00	XRF Cup &8 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				Cadium only
11	**CP091-16-01**	**March 6, 2011**	**14:15**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	x	x	x				**Sieved lead, zinc, and cadium**
12	**CP091-16-01FD**	**March 6, 2011**	**14:15**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	x	x	x				**Sieved lead, zinc, and cadium**
13	**CP091-16-02**	**March 6, 2011**	**14:20**	**XRF Cup &8 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	x	x	x				**Sieved lead, zinc, and cadium**

Turnaround Time
7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T=2.4°C

1. Relinquished By Kui Tan	**Date:** March 8, 2011	**Time:** 18:00	**1. Received By:** FedEX	**Date:** 3/9/11	**Time:** 0930
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**	
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:**	

Comments
Sieve lead samples with #60 sieve: Analyze bolded samples under an expedited 3 day turnaround time (TAT). All samples shall also be analyzed for percent moisture content.

002

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11 C089
☐ EMAX Courier		Recepient I PATEL
☐ Client Delivery		Date 3/9/11
☑ Third Party Fedex	7968 4533 1467	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☑ plastic bag
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 1 2.4 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 3/9/11 /VK

SRF [signature] Date 3/9/11

PM LP for YG Date 3/9/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4 ____		E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5 ____	
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6 ____	
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4 ____		G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	*>20 % solid particle*		
C3	Leaking container	H1 ____			
C4 ____		H2 ____			

Linh Pham

From: Ye Myint
Sent: Tuesday, March 08, 2011 2:25 PM
To: Linh Pham
Cc: Mary J Mendoza
Subject: FW: Rush Tar Creek samples arriving tomorrow

FYI

Ye

310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Tuesday, March 08, 2011 1:30 PM
To: Ye Myint
Subject: Rush Tar Creek samples arriving tomorrow

Ye,

You should be receiving more soil samples from Tar Creek tomorrow and there will be several rush analyses needed.

Please put a 3-day rush TAT for zinc and cadmium on the following samples:
CB215-09-02
CB231-13-01
CB231-14-01
CP091-16-01
CP091-16-01FD
CP091-16-02

Thanks!

www.ch2mhill.com
John.Ynfante@ch2m.com

From: (281) 721-8534
Kui Tan
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

J11101012220225

Ship Date: 08MAR11
ActWgt: 30.0 LB
CAD: 1303944/WBUS0200

Dims: 30 X 20 X 20 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Ref # 413831.CV.01/AAB00103032
Invoice #
PO #
Dept #

11 cw89 3/9/11
0930

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street
Torrance, CA 90501

WED - 09 MAR A1
STANDARD OVERNIGHT

TRK# 7968 4533 1467
0201

A7 AVXA

90501
CA-US
LAX

50DG2/BDD9/7EFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11C089

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C089

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of thirteen (13) soil samples were received on 03/09/11 for Metals by ICP analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC026SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for C089-02M/S were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C089
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC026SB	1	NA	03/14/1119:06	03/14/1111:10	ID8C014161	ID8C014159	IPC026S	Method Blank
LCS1S	IPC026SL	1	NA	03/14/1119:09	03/14/1111:10	ID8C014162	ID8C014159	IPC026S	Lab Control Sample (LCS)
LCD1S	IPC026SC	1	NA	03/14/1119:12	03/14/1111:10	ID8C014163	ID8C014159	IPC026S	LCS Duplicate
CB215-07-02AS	C089-02A	0.870	17.3	03/14/1119:14	03/14/1111:10	ID8C014164	ID8C014159	IPC026S	Analytical Spike Sample
CB215-07-02	C089-02	0.870	17.3	03/14/1119:17	03/14/1111:10	ID8C014165	ID8C014159	IPC026S	Field Sample
CB215-07-02DL	C089-02J	4.35	17.3	03/14/1119:20	03/14/1111:10	ID8C014166	ID8C014159	IPC026S	Diluted Sample
CB215-09-02	C089-06	0.935	20.7	03/14/1119:48	03/14/1111:10	ID8C014176	ID8C014171	IPC026S	Field Sample
CB231-13-01	C089-07	0.725	19.8	03/14/1119:50	03/14/1111:10	ID8C014177	ID8C014171	IPC026S	Field Sample
CB231-14-01	C089-09	0.758	22.8	03/14/1119:56	03/14/1111:10	ID8C014179	ID8C014171	IPC026S	Field Sample
CP091-16-01	C089-11	0.971	24.5	03/14/1120:01	03/14/1111:10	ID8C014181	ID8C014171	IPC026S	Field Sample
CP091-16-01FD	C089-12	0.787	23.4	03/14/1120:13	03/14/1111:10	ID8C014185	ID8C014183	IPC026S	Field Sample
CP091-16-02	C089-13	0.971	21.2	03/14/1120:15	03/14/1111:10	ID8C014186	ID8C014183	IPC026S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/07/11 14:15
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB215-09-02	Date Analyzed:	03/14/11 19:48
Lab Samp ID:	C089-06	Dilution Factor:	0.935
Lab File ID:	ID8C014176	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	20.7
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	13.0	1.18	0.236
Zinc	1510	2.36	1.18

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 11:05
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB231-13-01	Date Analyzed:	03/14/11 19:50
Lab Samp ID:	C089-07	Dilution Factor:	0.725
Lab File ID:	ID8C014177	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	19.8
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	5.95	0.904	0.181
Zinc	1270	1.81	0.904

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 11:50
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB231-14-01	Date Analyzed:	03/14/11 19:56
Lab Samp ID:	C089-09	Dilution Factor:	0.758
Lab File ID:	ID8C014179	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	22.8
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	8.59	0.982	0.196
Zinc	1480	1.96	0.982

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 14:15
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CP091-16-01	Date Analyzed:	03/14/11 20:01
Lab Samp ID:	C089-11	Dilution Factor:	0.971
Lab File ID:	ID8C014181	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	24.5
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	6.76	1.29	0.257
Zinc	1310	2.57	1.29

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 14:15
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CP091-16-01FD	Date Analyzed:	03/14/11 20:13
Lab Samp ID:	C089-12	Dilution Factor:	0.787
Lab File ID:	ID8C014185	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	23.4
Calib. Ref.:	ID8C014183	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	7.78	1.03	0.205
Zinc	1480	2.05	1.03

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 14:20
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CP091-16-02	Date Analyzed:	03/14/11 20:15
Lab Samp ID:	C089-13	Dilution Factor:	0.971
Lab File ID:	ID8C014186	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	21.2
Calib. Ref.:	ID8C014183	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	4.97	1.23	0.246
Zinc	1050	2.46	1.23

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/14/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	MBLK1S	Date Analyzed:	03/14/11 19:06
Lab Samp ID:	IPC026SB	Dilution Factor:	1
Lab File ID:	ID8C014161	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	NA
Calib. Ref.:	ID8C014159	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC026SB	IPC026SL	IPC026SC		
LAB FILE ID:	ID8C014161	ID8C014162	ID8C014163		
DATIME EXTRCTD:	03/14/1111:10	03/14/1111:10	03/14/1111:10	DATE COLLECTED:	NA
DATIME ANALYZD:	03/14/1119:06	03/14/1119:09	03/14/1119:12	DATE RECEIVED:	03/14/11
PREP. BATCH:	IPC026S	IPC026S	IPC026S		
CALIB. REF:	ID8C014159	ID8C014159	ID8C014159		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	47.8	96	50	48.4	97	1	80-120	20
Zinc	ND	50	53.1	106	50	53.8	108	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.3
DILUTION FACTOR:	0.870	4.35		
SAMPLE ID:	CB215-07-02	CB215-07-02DL		
EMAX SAMP ID:	C089-02	C089-02J		
LAB FILE ID:	ID8C014165	ID8C014166		
DATE EXTRACTED:	03/14/1111:10	03/14/1111:10	DATE COLLECTED:	03/07/11 11:35
DATE ANALYZED:	03/14/1119:17	03/14/1119:20	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC026S	IPC026S		
CALIB. REF:	ID8C014159	ID8C014159		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10
Zinc	128	128	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.3
DILTN FACTR:	0.870	0.870		
SAMPLE ID:	CB215-07-02			
CONTROL NO.:	C089-02	C089-02A		
LAB FILE ID:	ID8C014165	ID8C014164		
DATIME EXTRCTD:	03/14/1111:10	03/14/1111:10	DATE COLLECTED:	03/07/11 11:35
DATIME ANALYZD:	03/14/1119:17	03/14/1119:14	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC026S	IPC026S		
CALIB. REF:	ID8C014159	ID8C014159		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	52.6	49.2	94	75-125
Zinc	128	52.6	179	98	75-125

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C089
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC026SB	1	NA	03/14/1119:06	03/14/1111:10	ID8C014161	ID8C014159	IPC026S	Method Blank
LCS1S	IPC026SL	1	NA	03/14/1119:09	03/14/1111:10	ID8C014162	ID8C014159	IPC026S	Lab Control Sample (LCS)
LCD1S	IPC026SC	1	NA	03/14/1119:12	03/14/1111:10	ID8C014163	ID8C014159	IPC026S	LCS Duplicate
CB215-07-02AS	C089-02A	0.870	17.3	03/14/1119:14	03/14/1111:10	ID8C014164	ID8C014159	IPC026S	Analytical Spike Sample
CB215-07-02	C089-02	0.870	17.3	03/14/1119:17	03/14/1111:10	ID8C014165	ID8C014159	IPC026S	Field Sample
CB215-07-02DL	C089-02J	4.35	17.3	03/14/1119:20	03/14/1111:10	ID8C014166	ID8C014159	IPC026S	Diluted Sample
CB215-07-02MS	C089-02M	0.840	17.3	03/14/1119:23	03/14/1111:10	ID8C014167	ID8C014159	IPC026S	Matrix Spike Sample (MS)
CB215-07-02MSD	C089-02S	0.820	17.3	03/14/1119:25	03/14/1111:10	ID8C014168	ID8C014159	IPC026S	MS Duplicate (MSD)
CB215-07-01	C089-01	0.971	16.1	03/14/1119:28	03/14/1111:10	ID8C014169	ID8C014159	IPC026S	Field Sample
CB215-08-01	C089-03	0.855	15.5	03/14/1119:39	03/14/1111:10	ID8C014173	ID8C014171	IPC026S	Field Sample
CB215-08-02	C089-04	0.877	16.8	03/14/1119:42	03/14/1111:10	ID8C014174	ID8C014171	IPC026S	Field Sample
CB215-09-01	C089-05	0.855	20.3	03/14/1119:45	03/14/1111:10	ID8C014175	ID8C014171	IPC026S	Field Sample
CB231-13-02	C089-08	0.746	19.3	03/14/1119:53	03/14/1111:10	ID8C014178	ID8C014171	IPC026S	Field Sample
CB231-14-02	C089-10	0.990	21.0	03/14/1119:59	03/14/1111:10	ID8C014180	ID8C014171	IPC026S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/07/11 11:30
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB215-07-01	Date Analyzed:	03/14/11 19:28
Lab Samp ID:	C089-01	Dilution Factor:	0.971
Lab File ID:	ID8C014169	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	16.1
Calib. Ref.:	ID8C014159	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.378J	1.16	0.231

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/07/11 11:35
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB215-07-02	Date Analyzed:	03/14/11 19:17
Lab Samp ID:	C089-02	Dilution Factor:	0.870
Lab File ID:	ID8C014165	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	17.3
Calib. Ref.:	ID8C014159	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.05	0.210

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/07/11 11:55
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB215-08-01	Date Analyzed:	03/14/11 19:39
Lab Samp ID:	C089-03	Dilution Factor:	0.855
Lab File ID:	ID8C014173	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	15.5
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.18	1.01	0.202

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/07/11 12:00
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB215-08-02	Date Analyzed:	03/14/11 19:42
Lab Samp ID:	C089-04	Dilution Factor:	0.877
Lab File ID:	ID8C014174	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	16.8
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.60	1.05	0.211

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/07/11 14:10
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB215-09-01	Date Analyzed:	03/14/11 19:45
Lab Samp ID:	C089-05	Dilution Factor:	0.855
Lab File ID:	ID8C014175	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	20.3
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	40.8	1.07	0.215

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 11:10
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB231-13-02	Date Analyzed:	03/14/11 19:53
Lab Samp ID:	C089-08	Dilution Factor:	0.746
Lab File ID:	ID8C014178	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	19.3
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.07	0.924	0.185

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 12:00
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	CB231-14-02	Date Analyzed:	03/14/11 19:59
Lab Samp ID:	C089-10	Dilution Factor:	0.990
Lab File ID:	ID8C014180	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	21.0
Calib. Ref.:	ID8C014171	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.02	1.25	0.251

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/14/11
SDG NO.	: 11C089	Date Extracted:	03/14/11 11:10
Sample ID:	MBLK1S	Date Analyzed:	03/14/11 19:06
Lab Samp ID:	IPC026SB	Dilution Factor:	1
Lab File ID:	ID8C014161	Matrix :	SOIL
Ext Btch ID:	IPC026S	% Moisture :	NA
Calib. Ref.:	ID8C014159	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC026SB	IPC026SL	IPC026SC		
LAB FILE ID:	ID8C014161	ID8C014162	ID8C014163		
DATIME EXTRCTD:	03/14/1111:10	03/14/1111:10	03/14/1111:10	DATE COLLECTED:	NA
DATIME ANALYZD:	03/14/1119:06	03/14/1119:09	03/14/1119:12	DATE RECEIVED:	03/14/11
PREP. BATCH:	IPC026S	IPC026S	IPC026S		
CALIB. REF:	ID8C014159	ID8C014159	ID8C014159		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	47.8	96	50	48.4	97	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	17.3
DILTN FACTR:	0.870	0.840	0.820		
SAMPLE ID:	CB215-07-02				
CONTROL NO.:	C089-02	C089-02M	C089-02S		
LAB FILE ID:	ID8C014165	ID8C014167	ID8C014168		
DATIME EXTRCTD:	03/14/1111:10	03/14/1111:10	03/14/1111:10	DATE COLLECTED:	03/07/11 11:35
DATIME ANALYZD:	03/14/1119:17	03/14/1119:23	03/14/1119:25	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC026S	IPC026S	IPC026S		
CALIB. REF:	ID8C014159	ID8C014159	ID8C014159		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50.8	48.1	95	49.6	47.1	95	2	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.3
DILUTION FACTOR:	0.870	4.35		
SAMPLE ID:	CB215-07-02	CB215-07-02DL		
EMAX SAMP ID:	C089-02	C089-02J		
LAB FILE ID:	ID8C014165	ID8C014166		
DATE EXTRACTED:	03/14/1111:10	03/14/1111:10	DATE COLLECTED:	03/07/11 11:35
DATE ANALYZED:	03/14/1119:17	03/14/1119:20	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC026S	IPC026S		
CALIB. REF:	ID8C014159	ID8C014159		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C089
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	17.3
DILTN FACTR:	0.870	0.870		
SAMPLE ID:	CB215-07-02			
CONTROL NO.:	C089-02	C089-02A		
LAB FILE ID:	ID8C014165	ID8C014164		
DATIME EXTRCTD:	03/14/1111:1D	03/14/1111:10	DATE COLLECTED:	03/07/11 11:35
DATIME ANALYZD:	03/14/1119:17	03/14/1119:14	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC026S	IPC026S		
CALIB. REF:	ID8C014159	ID8C014159		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	52.6	49.2	94	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/14/11 11:32
End Date: 3/14/11 20:23

Book #: AD8-018
Instrument No.: D8
Analytical Batch: 108C014
Analytical Sequence: S_11C6010 (VIS)
Method File: 11C6010 (VIS)
Database: Emax 13

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

- C454-07 - Pb "J" flag. Li>LOR Li interfers w/ Pb. See printout.
- BS26-01 STLC: yellow sample. ∴ sample diluted 5X prior to analysis.
- C431-04T, 07T, 09T @ 10X Pb>LOR
- C431-08~~X~~T: needs rerun for Pb confirmation. TH 3/14/11
- C444-12T ~~over~~diluted @ 10X. TH 3/14/11
- CCB9 Pb>3X IDL, >MDL. ~~However~~ However, C431 samples detected >10X blank conc. level EXCEPT C431-08T. TH 3/14/11
- CCV12, CCV13 NO sample

	STANDARDS ID		STANDARDS ID
S0	SM1B14-4409	S30	SM1B14-4201
S1	MA	S31	4202
S2		ICV	2701
S3		CCV	3805
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	MA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B14-4409
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-3102		
S21	3702		
S22	3703		
S23	3704		
S24	4001		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Analyzed By: TH
Date: 3/14/11

SEQUENCE FILE : ID8C014

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C014001	Blank	11:32	03/14/11	1.000
ID8C014002	S20	11:35	03/14/11	1.000
ID8C014003	S21	11:37	03/14/11	1.000
ID8C014004	S22	11:40	03/14/11	1.000
ID8C014005	S23	11:43	03/14/11	1.000
ID8C014006	S24	11:46	03/14/11	1.000
ID8C014007	S25	11:49	03/14/11	1.000
ID8C014008	S26	11:52	03/14/11	1.000
ID8C014009	S27	11:55	03/14/11	1.000
ID8C014010	S28	11:58	03/14/11	1.000
ID8C014011	S29	12:01	03/14/11	1.000
ID8C014012	S30	12:04	03/14/11	1.000
ID8C014013	S31	12:06	03/14/11	1.000
ID8C014014	ICV	12:09	03/14/11	1.000
ID8C014015	ICB	12:12	03/14/11	1.000
ID8C014016	MRLC1401	12:15	03/14/11	1.000
ID8C014017	MRLC1402	12:18	03/14/11	1.000
ID8C014018	ICSA1	12:20	03/14/11	1.000
ID8C014019	ICSAB1	12:23	03/14/11	1.000
ID8C014020	CCV1	12:26	03/14/11	1.000
ID8C014021	CCB1	12:29	03/14/11	1.000
ID8C014022	IPC024SB	12:32	03/14/11	1.000
ID8C014023	IPC024SL	12:35	03/14/11	1.000
ID8C014024	IPC024SC	12:37	03/14/11	1.000
ID8C014025	C089-06A	12:40	03/14/11	1.000
ID8C014026	C089-06	12:42	03/14/11	1.000
ID8C014027	C089-06J	12:45	03/14/11	5.000
ID8C014028	C089-11	12:48	03/14/11	1.000
ID8C014029	C089-12	12:50	03/14/11	1.000
ID8C014030	C089-13	12:53	03/14/11	1.000
ID8C014031	Blank	12:56	03/14/11	1.000
ID8C014032	CCV2	12:58	03/14/11	1.000
ID8C014033	CCB2	13:01	03/14/11	1.000
ID8C014034	C454-07	13:04	03/14/11	1.000
ID8C014035	C454-07M	13:07	03/14/11	1.000
ID8C014036	C454-07S	13:10	03/14/11	1.000
ID8C014037	Blank	13:12	03/14/11	1.000
ID8C014038	CCV3	13:15	03/14/11	1.000
ID8C014039	CCB3	13:18	03/14/11	1.000
ID8C014040	IPC023WB	13:21	03/14/11	1.000
ID8C014041	IPC023WL	13:23	03/14/11	1.000
ID8C014042	IPC023WC	13:26	03/14/11	1.000
ID8C014043	TXC003SB	13:29	03/14/11	1.000
ID8C014044	C429-01A	13:31	03/14/11	1.000
ID8C014045	C429-01	13:34	03/14/11	1.000
ID8C014046	C429-01J	13:37	03/14/11	5.000
ID8C014047	C429-01M	13:40	03/14/11	1.000
ID8C014048	C429-01S	13:43	03/14/11	1.000
ID8C014049	Blank	13:46	03/14/11	1.000
ID8C014050	CCV4	13:49	03/14/11	1.000
ID8C014051	CCB4	13:51	03/14/11	1.000
ID8C014052	C429-02	13:54	03/14/11	1.000
ID8C014053	C429-03	13:57	03/14/11	1.000
ID8C014054	C429-04	14:00	03/14/11	1.000

ID8C014055	C429-05	14:03	03/14/11	1.000
ID8C014056	C429-06	14:06	03/14/11	1.000
ID8C014057	C415-01	14:09	03/14/11	1.000
ID8C014058	C415-02	14:11	03/14/11	1.000
ID8C014059	C415-03	14:14	03/14/11	1.000
ID8C014060	C415-04	14:17	03/14/11	1.000
ID8C014061	Blank	14:20	03/14/11	1.000
ID8C014062	CCV5	14:23	03/14/11	1.000
ID8C014063	CCB5	14:26	03/14/11	1.000
ID8C014064	C415-05	14:29	03/14/11	1.000
ID8C014065	C415-06	14:32	03/14/11	1.000
ID8C014066	C415-07	14:35	03/14/11	1.000
ID8C014067	B526-01	14:38	03/14/11	1.000
ID8C014068	Blank	14:41	03/14/11	1.000
ID8C014069	CCV6	14:44	03/14/11	1.000
ID8C014070	CCB6	14:46	03/14/11	1.000
ID8C014071	IPC022WB	14:49	03/14/11	1.000
ID8C014072	IPC022WL	14:52	03/14/11	1.000
ID8C014073	IPC022WC	14:55	03/14/11	1.000
ID8C014074	C113-01A	14:57	03/14/11	1.000
ID8C014075	C113-01	15:00	03/14/11	1.000
ID8C014076	C113-01J	15:03	03/14/11	5.000
ID8C014077	C113-01M	15:05	03/14/11	1.000
ID8C014078	C113-01S	15:08	03/14/11	1.000
ID8C014079	C064-01	15:10	03/14/11	1.000
ID8C014080	Blank	15:13	03/14/11	1.000
ID8C014081	CCV7	15:16	03/14/11	1.000
ID8C014082	CCB7	15:19	03/14/11	1.000
ID8C014083	WTC001SB	15:22	03/14/11	1.000
ID8C014084	WTC001SQ	15:25	03/14/11	5.000
ID8C014085	B526-01A	15:28	03/14/11	5.000
ID8C0140B6	B526-01T	15:31	03/14/11	5.000
ID8C014087	B526-01J	15:33	03/14/11	25.00
ID8C014088	B526-01G	15:36	03/14/11	5.000
ID8C014089	B526-01H	15:39	03/14/11	5.000
ID8C014090	Blank	15:42	03/14/11	1.000
ID8C014091	Blank	15:45	03/14/11	1.000
ID8C014092	CCV8	15:47	03/14/11	1.000
ID8C014093	CCB8	15:50	03/14/11	1.000
ID8C014094	IPC025SB	15:53	03/14/11	1.000
ID8C014095	IPC025SL	15:56	03/14/11	1.000
ID8C014096	IPC025SC	15:58	03/14/11	1.000
ID8C014097	C431-04A	16:01	03/14/11	10.00
ID8C014098	C431-04T	16:04	03/14/11	10.00
ID8C014099	C431-04J	16:06	03/14/11	50.00
ID8C014100	C431-04M	16:09	03/14/11	10.00
ID8C014101	C431-04S	16:12	03/14/11	10.00
ID8C014102	C431-01T	16:14	03/14/11	10.00
ID8C014103	Blank	16:17	03/14/11	1.000
ID8C014104	CCV9	16:20	03/14/11	1.000
ID8C014105	CCB9	16:23	03/14/11	1.000
ID8C014106	C431-02T	16:26	03/14/11	10.00
ID8C014107	C431-03T	16:29	03/14/11	10.00
ID8C014108	C431-05T	16:31	03/14/11	10.00
ID8C014109	C431-06T	16:34	03/14/11	10.00
ID8C014110	C431-07T	16:37	03/14/11	10.00
ID8C014111	C431-08T	16:40	03/14/11	10.00

ID8C014112	C431-09T	16:43	03/14/11	10.00
ID8C014113	C431-10T	16:46	03/14/11	10.00
ID8C014114	C431-11T	16:48	03/14/11	10.00
ID8C014115	Blank	16:51	03/14/11	1.000
ID8C014116	CCV10	16:54	03/14/11	1.000
ID8C014117	CCB10	16:57	03/14/11	1.000
ID8C014118	C431-12T	17:00	03/14/11	10.00
ID8C014119	C443-02T	17:02	03/14/11	10.00
ID8C014120	C444-01T	17:05	03/14/11	10.00
ID8C014121	C444-12T	17:08	03/14/11	10.00
ID8C014122	C106-02	17:11	03/14/11	1..00
ID8C014123	C106-03	17:13	03/14/11	1.000
ID8C014124	Blank	17:16	03/14/11	1.000
ID8C014125	CCV11	17:19	03/14/11	1.000
ID8C014126	CCB11	17:22	03/14/11	1.000
ID8C014127	C003-01T	17:25	03/14/11	10.00
ID8C014128	C003-02T	17:28	03/14/11	10.00
ID8C014129	C003-03T	17:31	03/14/11	10.00
ID8C014130	C003-04T	17:33	03/14/11	10.00
ID8C014131	C003-05T	17:36	03/14/11	10.00
ID8C014132	C003-06T	17:39	03/14/11	10.00
ID8C014133	C003-11T	17:42	03/14/11	10.00
ID8C014134	C003-12T	17:45	03/14/11	10.00
ID8C014135	Blank	17:48	03/14/11	1.000
ID8C014136	CCV12	17:51	03/14/11	1.000
ID8C014137	CCB12	17:54	03/14/11	1.000
ID8C014138	C003-13T	17:57	03/14/11	10.00
ID8C014139	C003-14T	18:00	03/14/11	10.00
ID8C014140	C003-21T	18:03	03/14/11	10.00
ID8C014141	C003-22T	18:05	03/14/11	10.00
ID8C014142	C003-23T	18:08	03/14/11	10.00
ID8C014143	Blank	18:11	03/14/11	1.000
ID8C014144	CCV13	18:14	03/14/11	1.000
ID8C014145	CCB13	18:17	03/14/11	1.000
ID8C014146	ZZZZ	18:20	03/14/11	1.000
ID8C014147	CCV14	18:27	03/14/11	1.000
ID8C014148	CCB14	18:30	03/14/11	1.000
ID8C014149	C431-04A	18:33	03/14/11	100.0
ID8C014150	C431-04I	18:35	03/14/11	100.0
ID8C014151	C431-04J	18:38	03/14/11	500.0
ID8C014152	C431-04G	18:41	03/14/11	100.0
ID8C014153	C431-04H	18:44	03/14/11	100.0
ID8C014154	C431-07I	18:47	03/14/11	100.0
ID8C014155	C431-08	18:49	03/14/11	1.000
ID8C014156	C431-09I	18:52	03/14/11	100.0
ID8C014157	C444-12	18:55	03/14/11	1.000
ID8C014158	Blank	18:58	03/14/11	1.000
ID8C014159	CCV15	19:01	03/14/11	1.000
ID8C014160	CCB15	19:04	03/14/11	1.000
ID8C014161	IPC026SB	19:06	03/14/11	1.000
ID8C014162	IPC026SL	19:09	03/14/11	1.000
ID8C014163	IPC026SC	19:12	03/14/11	1.000
ID8C014164	C089-02A	19:14	03/14/11	1.000
ID8C014165	C089-02	19:17	03/14/11	1.000
ID8C014166	C089-02J	19:20	03/14/11	5.000
ID8C014167	C089-02M	19:23	03/14/11	1.000
ID8C014168	C089-02S	19:25	03/14/11	1.000

ID8C014169	C089-01	19:28	03/14/11	1.000
ID8C014170	Blank	19:31	03/14/11	1.000
ID8C014171	CCV16	19:34	03/14/11	1.000
ID8C014172	CCB16	19:36	03/14/11	1.000
ID8C014173	C089-03	19:39	03/14/11	1.000
ID8C014174	C089-04	19:42	03/14/11	1.000
ID8C014175	C089-05	19:45	03/14/11	1.000
ID8C014176	C089-06	19:48	03/14/11	1.000
ID8C014177	C089-07	19:50	03/14/11	1.000
ID8C014178	C089-08	19:53	03/14/11	1.000
ID8C014179	C089-09	19:56	03/14/11	1.000
ID8C014180	C089-10	19:59	03/14/11	1.000
ID8C014181	C089-11	20:01	03/14/11	1.000
ID8C014182	Blank	20:04	03/14/11	1.000
ID8C014183	CCV17	20:07	03/14/11	1.000
ID8C014184	CCB17	20:10	03/14/11	1.000
ID8C014185	C089-12	20:13	03/14/11	1.000
ID8C014186	C089-13	20:15	03/14/11	1.000
ID8C014187	Blank	20:18	03/14/11	1.000
ID8C014188	CCV18	20:21	03/14/11	1.000
ID8C014189	CCB18	20:23	03/14/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8C014 DATE : 03/14/11 INST : EMAX7

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	104	95	101	97	100	97	98	101	97	91	98	100	95	103	94	92	95	97	97	99	99	103	97	92	95	98	96	103
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	95	----	----	----	91	----	----	91	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	100	103	105	105	98	109	95	95	95	93	105	94	94	110	94	91	100	98	103	104	108	108	100	86	98	97	98	105
CCV1	105	102	104	99	100	99	99	101	98	96	100	100	97	105	94	93	101	100	99	104	101	104	99	95	101	99	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	102	104	100	100	99	97	100	97	96	101	99	98	105	94	93	101	101	98	103	101	104	100	94	101	99	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	106	101	103	100	100	99	97	100	97	96	101	99	98	108	93	93	101	101	99	103	101	105	100	94	101	99	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC003SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	109	101	104	102	101	100	98	98	98	97	105	99	98	109	93	94	102	101	100	104	103	106	102	95	100	100	98	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C429-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	108	101	102	101	99	99	93	96	94	98	104	95	99	108	89*	91	104	102	99	104	101	105	101	92	101	98	96	103
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	101	101	101	99	99	91	96	94	98	104	95	98	108	89*	91	104	102	99	102	101	105	101	90	101	98	96	102
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C064-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	108	101	103	102	100	99	95	96	96	97	106	96	98	109	90	92	103	102	100	105	102	105	103	93	99	98	97	102
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTC001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTC001SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	109	101	105	103	102	102	98	98	99	98	108	97	97	110	93	95	102	102	101	106	105	107	104	95	98	100	98	103
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	109	100	104	102	102	101	99	98	99	97	106	97	96	109	93	95	101	101	100	104	104	106	103	95	97	99	98	103
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C431-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	108	100	104	101	101	100	98	98	99	96	104	97	97	108	92	94	101	101	100	104	104	106	102	95	97	98	97	103
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C443-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	108	100	103	103	101	101	97	97	99	97	107	97	97	109	92	94	101	101	101	105	104	106	103	94	97	99	97	103
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	26*	95	-260*	22*	3*	24*	-10*	5*	7*	-157*	57*	11*	193*	31*	7*	-1*	-7*	-32*	-99*	-52*	137*	576*	-67*	-65*	-50*	121*	-42*	248*
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-13T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-14T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-21T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-22T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-23T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	33*	192*	-549*	11*	2*	17*	-20*	0*	3*	-92*	64*	-14*	7*	-103*	2*	-1*	-20*	3*	-57*	-58*	164*	81*	-37*	-82*	217*	15*	-69*	24*
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ZZZZ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	109	100	104	103	101	101	97	96	98	97	107	96	97	110	90	93	102	102	101	106	104	107	104	94	97	99	97	102
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-07I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-09I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	105	99	102	101	100	100	95	98	97	97	103	96	97	109	91	92	101	101	101	103	102	107	103	92	98	98	96	103
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC026SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC026SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC026SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C089-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	109	100	105	102	102	101	100	99	101	96	106	99	96	110	94	94	100	101	102	105	105	107	102	96	96	100	98	104
CCB16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV17	107	96	102	100	101	99	97	99	97	94	104	96	96	108	91	91	97	100	99	102	102	105	102	92	93	98	95	100
CCB17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	107	97	103	100	100	99	97	99	96	93	103	97	96	107	91	90	98	100	99	103	102	105	101	93	95	98	95	101
CCB18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C014 (SOIL) DATE : 03/14/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	38.0	1.55	-.350	.830	.270	8.01	.770	165	.810	.440	.990	14.3	1.16	.250	10.6	.630	2.88	.980	93.0	-.660	.230	-17.7	.090	1.97	.620	.000	.620	10.4
MRLC1401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.94	-1.53	2.70	.000	47.9	-2.84	----	.160	-1.60	.980	----	1.05	5.00	----	1.41	-.680	.590	-11.6	3.12	.310	113	1.10	4.06	1.57	3.09	2.03	4.47
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	35.4	1.06	-1.71	.530	.190	7.44	.300	98.8	.420	.270	.430	50.4	.860	.170	13.9	.680	2.27	.440	83.2	.130	.140	-6.44	.090	1.25	-.260	-.210	.260	5.31
IPC024SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	20.5	1.44	-1.14	.670	.380	6.75	.210	86.7	.490	.110	.640	6.03	1.06	.310	15.6	.850	2.07	.510	63.1	.480	.020	-47.1	.100	1.03	.100	.060	.340	4.90
C454-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	22.9	1.19	-.380	.880	.490	8.26	.210	88.2	.400	.260	.760	5.76	1.22	9.07	9.85	.790	2.11	.360	142	.780	.110	47.9	.190	.500	.030	-.270	.380	4.72
IPC023WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC003SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	29.1	1.09	-1.64	.550	.310	7.03	.210	86.2	.450	.110	.770	5.98	.800	2.68	13.1	.520	1.84	.560	127	-.330	.100	72.6	.150	.840	-.130	.000	.390	5.59
C429-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C429-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	26.4	1.63	-1.23	.950	.580	6.19	.230	114	.360	.090	1.32	4.13	.500	1.82	17.0	1.05	1.57	.310	129	-.270	.030	124	.350	.730	.650	.060	.390	4.62
C415-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	23.3	1.06	-1.04	.590	.370	6.47	.210	82.4	.420	.150	.850	2.43	1.52	1.23	11.2	.780	1.53	.300	133	-.040	-.150	101	.180	.710	.180	-.150	.400	4.46
IPC022WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C064-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	26.8	1.38	.140	.970	.370	5.61	.270	226	.380	.180	.640	5.62	.900	1.12	13.8	.780	1.67	.490	110	-.220	.090	-6.05	.250	.770	.320	.180	.500	10.2
WTC001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTC001SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	22.1	1.26	-.930	.490	.210	5.04	.170	77.2	.280	.070	.580	4.07	.520	1.49	6.94	.460	1.58	.170	161	.030	.080	236	.130	-.190	.370	.000	.290	4.62
IPC025SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	46.1	1.54	-.330	1.55	.530	5.48	.560	251	1.09	.240	.990	8.51	7.60	.640	24.5	1.14	1.99	.730	90.5	-.310	.080	71.1	.280	.920	.290	.360	.650	16.2
C431-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C431-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	36.4	.920	-1.18	1.14	.390	5.61	.270	202	.740	.100	.910	6.39	2.78	.870	14.7	.890	1.82	.330	61.0	.030	.040	-3.17	.250	.780	.260	-.080	.260	11.2
C431-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C443-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	36.3	.B90	-1.24	1.68	.900	5.95	.280	173	.780	.190	.830	8.B3	1.77	.980	34.1	1.49	1.46	.330	110	-.200	.000	14.3	.450	.640	-.020	.290	.490	8.23
C003-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	14.B	-.410	-.840	.520	.080	.020	.070	145	.170	.250	.130	-.820	.870	.300	3.16	.350	.200	.190	39.0	-.640	-.040	57.9	.110	-.070	-.050	.080	.190	8.10
C003-13T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-14T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-21T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-22T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C003-23T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	19.0	.490	-.680	.420	.120	-.080	.130	142	.260	.190	.380	1.90	1.14	1.27	-4.07	.360	.270	.110	26.3	.520	-.050	-21.B	.080	-.750	.470	-.290	.180	7.20
ZZZZ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	23.8	1.58	-.930	.220	.260	4.66	.180	6.87	.360	.060	.440	1.26	.920	.920	12.0	.370	1.28	.280	63.1	-.390	.140	2.59	.080	.150	.070	-.080	.280	.450
C431-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-07I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-09I	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	33.7	1.38	-.390	1.06	.480	6.05	.250	165	.650	.120	.870	8.58	1.46	.760	16.3	.850	1.44	.520	67.9	.380	.070	-37.0	.230	.320	.580	.340	.440	8.22
IPC026SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC026SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC026SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C089-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB16	39.9	1.20	-1.35	.740	.360	5.40	.390	45.2	.640	.170	.800	8.32	1.52	.570	21.8	.780	1.64	.470	68.1	-.190	.150	-48.2	.220	1.03	.160	-.210	.340	3.52
C089-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB17	32.8	.980	-1.23	.450	.320	5.32	.260	29.9	.620	.110	.750	6.53	1.42	.620	8.86	.470	1.32	.240	68.1	.950	.280	-82.5	.090	.010	.480	.200	.440	1.12
C089-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB18	26.1	1.12	-1.81	.400	.310	5.72	.190	30.1	.460	.110	.690	1.50	.620	.480	12.4	.490	1.25	.300	43.3	-.790	-.030	-80.0	.190	.320	.080	-.350	.390	1.15

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C014001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8C014002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8C014003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8C014004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8C014005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8C014006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8C014007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8C014008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8C014009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8C014010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8C014011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8C014012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8C014013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8C014014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8C014015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLC1401		ID8C014016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLC1402		ID8C014017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8C014018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8C014019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8C014020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8C014021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPC024SB		ID8C014022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPC024SL		ID8C014023			1	☒	LCS	None
24	11	2	11	1	QC	IPC024SC		ID8C014024			1	☒	LCS	None
25	12	2	12	1	Unk	C089-06A	dried & sieved	ID8C014025			1	☒	unk	---
26	13	2	1	2	Unk	C089-06	dried & sieved	ID8C014026			1	☒	unk	---
27	14	2	2	2	Unk	C089-06J	dried & sieved	ID8C014027			1	☒	unk	---
28	15	2	3	2	Unk	C089-11	dried & sieved	ID8C014028			1	☒	unk	---
29	16	2	4	2	Unk	C089-12	dried & sieved	ID8C014029			1	☒	unk	---
30	17	2	5	2	Unk	C089-13	dried & sieved	ID8C014030			1	☒	unk	---
31	18	2	6	2	Blank	Blank		ID8C014031			1	☐		---
32	19	2	7	2	QC	CCV2		ID8C014032			1	☒	CCV	None
33	20	2	8	2	QC	CCB2		ID8C014033			1	☒	3XIDL	None
34	21	2	9	2	Unk	C454-07		ID8C014034			1	☒	unk	---
35	22	2	10	2	Unk	C454-07M		ID8C014035			1	☒	unk	---
36	23	2	11	2	Unk	C454-07S		ID8C014036			1	☒	unk	---
37	24	2	12	2	Blank	Blank		ID8C014037			1	☐		---
38	25	2	1	3	QC	CCV3		ID8C014038			1	☒	CCV	None
39	26	2	2	3	QC	CCB3		ID8C014039			1	☒	3XIDL	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
40	27	2	3	3	QC	IPC023WB		ID8C014040			1	☒	1/2LOQ	None
41	28	2	4	3	QC	IPC023WL		ID8C014041			1	☒	LCS	None
42	29	2	5	3	QC	IPC023WC		ID8C014042			1	☒	LCS	None
43	30	2	6	3	QC	TXC003SB	TCLP	ID8C014043			1	☒	1/2LOQ	None
44	31	2	7	3	Unk	C429-01A	TCLP	ID8C014044			1	☒	unk	---
45	32	2	8	3	Unk	C429-01	TCLP	ID8C014045			1	☒	unk	---
46	33	2	9	3	Unk	C429-01J	TCLP	ID8C014046			1	☒	unk	---
47	34	2	10	3	Unk	C429-01M	TCLP	ID8C014047			1	☒	unk	---
48	35	2	11	3	Unk	C429-01S	TCLP	ID8C014048			1	☒	unk	---
49	36	2	12	3	Blank	Blank		ID8C014049			1	☐		---
50	37	2	1	4	QC	CCV4		ID8C014050			1	☒	CCV	None
51	38	2	2	4	QC	CCB4		ID8C014051			1	☒	3XIDL	None
52	39	2	3	4	Unk	C429-02	TCLP	ID8C014052			1	☒	unk	---
53	40	2	4	4	Unk	C429-03	TCLP	ID8C014053			1	☒	unk	---
54	41	2	5	4	Unk	C429-04	TCLP	ID8C014054			1	☒	unk	---
55	42	2	6	4	Unk	C429-05	TCLP	ID8C014055			1	☒	unk	---
56	43	2	7	4	Unk	C429-06	TCLP	ID8C014056			1	☒	unk	---
57	44	2	8	4	Unk	C415-01	TCLP	ID8C014057			1	☒	unk	---
58	45	2	9	4	Unk	C415-02	TCLP	ID8C014058			1	☒	unk	---
59	46	2	10	4	Unk	C415-03	TCLP	ID8C014059			1	☒	unk	---
60	47	2	11	4	Unk	C415-04	TCLP	ID8C014060			1	☒	unk	---
61	48	2	12	4	Blank	Blank		ID8C014061			1	☐		---
62	49	2	1	5	QC	CCV5		ID8C014062			1	☒	CCV	None
63	50	2	2	5	QC	CCB5		ID8C014063			1	☒	3XIDL	None
64	51	2	3	5	Unk	C415-05	TCLP	ID8C014064			1	☒	unk	---
65	52	2	4	5	Unk	C415-06	TCLP	ID8C014065			1	☒	unk	---
66	53	2	5	5	Unk	C415-07	TCLP	ID8C014066			1	☒	unk	---
67	54	2	6	5	Unk	B526-01	TCLP	ID8C014067			1	☒	unk	---
68	55	2	7	5	Blank	Blank		ID8C014068			1	☐		---
69	56	2	8	5	QC	CCV6		ID8C014069			1	☒	CCV	None
70	57	2	9	5	QC	CCB6		ID8C014070			1	☒	3XIDL	None
71	69	3	9	1	QC	IPC022WB		ID8C014071			1	☒	1/2LOQ	None
72	70	3	10	1	QC	IPC022WL		ID8C014072			1	☒	LCS	None
73	71	3	11	1	QC	IPC022WC		ID8C014073			1	☒	LCS	None
74	72	3	12	1	Unk	C113-01A		ID8C014074			1	☒	unk	---
75	73	3	1	2	Unk	C113-01		ID8C014075			1	☒	unk	---
76	74	3	2	2	Unk	C113-01J		ID8C014076			1	☒	unk	---
77	75	3	3	2	Unk	C113-01M		ID8C014077			1	☒	unk	---
78	76	3	4	2	Unk	C113-01S		ID8C014078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	77	3	5	2	Unk	C064-01		ID8C014079			1	☒	unk	—
80	78	3	6	2	Blank	Blank		ID8C014080			1	☐		—
81	79	3	7	2	QC	CCV7		ID8C014081			1	☒	CCV	None
82	80	3	8	2	QC	CCB7		ID8C014082			1	☒	3XIDL	None
83	58	2	10	5	QC	WTC001SB	STLC	ID8C014083			1	☒	1/2LOQ	None
84	59	2	11	5	QC	WTC001SQ	5X STLC	ID8C014084			1	☒	1/2LOQ	None
85	60	2	12	5	Unk	B526-01A	5X STLC	ID8C014085			1	☒	unk	—
86	61	3	1	1	Unk	B526-01T	5X STLC	ID8C014086			1	☒	unk	—
87	62	3	2	1	Unk	B526-01J	25X STLC	ID8C014087			1	☒	unk	—
88	63	3	3	1	Unk	B526-01G	5X STLC	ID8C014088			1	☒	unk	—
89	64	3	4	1	Unk	B526-01H	5X STLC	ID8C014089			1	☒	unk	—
90	65	3	5	1	Blank	Blank		ID8C014090			1	☐		—
91	66	3	6	1	Blank	Blank		ID8C014091			1	☐		—
92	67	3	7	1	QC	CCV8		ID8C014092			1	☒	CCV	None
93	68	3	8	1	QC	CCB8		ID8C014093			1	☒	3XIDL	None
94	81	3	9	2	QC	IPC025SB		ID8C014094			1	☒	1/2LOQ	None
95	82	3	10	2	QC	IPC025SL		ID8C014095			1	☒	LCS	None
96	83	3	11	2	QC	IPC025SC		ID8C014096			1	☒	LCS	None
97	84	3	12	2	Unk	C431-04A	10X	ID8C014097			1	☒	unk	—
98	85	3	1	3	Unk	C431-04T	10X	ID8C014098			1	☒	unk	—
99	86	3	2	3	Unk	C431-04J	50X	ID8C014099			1	☒	unk	—
100	87	3	3	3	Unk	C431-04M	10X	ID8C014100			1	☒	unk	—
101	88	3	4	3	Unk	C431-04S	10X	ID8C014101			1	☒	unk	—
102	89	3	5	3	Unk	C431-01T	10X	ID8C014102			1	☒	unk	—
103	90	3	6	3	Blank	Blank		ID8C014103			1	☐		—
104	91	3	7	3	QC	CCV9		ID8C014104			1	☒	CCV	None
105	92	3	8	3	QC	CCB9		ID8C014105			1	☒	3XIDL	None
106	93	3	9	3	Unk	C431-02T	10X	ID8C014106			1	☒	unk	—
107	94	3	10	3	Unk	C431-03T	10X	ID8C014107			1	☒	unk	—
108	95	3	11	3	Unk	C431-05T	10X	ID8C014108			1	☒	unk	—
109	96	3	12	3	Unk	C431-06T	10X	ID8C014109			1	☒	unk	—
110	97	3	1	4	Unk	C431-07T	10X	ID8C014110			1	☒	unk	—
111	98	3	2	4	Unk	C431-08T	10X	ID8C014111			1	☒	unk	—
112	99	3	3	4	Unk	C431-09T	10X	ID8C014112			1	☒	unk	—
113	100	3	4	4	Unk	C431-10T	10X	ID8C014113			1	☒	unk	—
114	101	3	5	4	Unk	C431-11T	10X	ID8C014114			1	☒	unk	—
115	102	3	6	4	Blank	Blank		ID8C014115			1	☐		—
116	103	3	7	4	QC	CCV10		ID8C014116			1	☒	CCV	None
117	104	3	8	4	QC	CCB10		ID8C014117			1	☒	3XIDL	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
118	105	3	9	4	Unk	C431-12T	10X	ID8C014118			1	☒	unk	---
119	106	3	10	4	Unk	C443-02T	10X	ID8C014119			1	☒	unk	---
120	107	3	11	4	Unk	C444-01T	10X	ID8C014120			1	☒	unk	---
121	108	3	12	4	Unk	C444-12T	10X	ID8C014121			1	☒	unk	---
122	112	3	4	5	Unk	C106-02		ID8C014122			1	☒	unk	---
123	113	3	5	5	Unk	C106-03		ID8C014123			1	☒	unk	---
124	109	3	1	5	Blank	Blank		ID8C014124			1	☐		---
125	110	3	2	5	QC	CCV11		ID8C014125			1	☒	CCV	None
126	111	3	3	5	QC	CCB11		ID8C014126			1	☒	3XIDL	None
127	114	3	6	5	Unk	C003-01T	10X	ID8C014127			1	☒	unk	---
128	115	3	7	5	Unk	C003-02T	10X	ID8C014128			1	☒	unk	---
129	116	3	8	5	Unk	C003-03T	10X	ID8C014129			1	☒	unk	---
130	117	3	9	5	Unk	C003-04T	10X	ID8C014130			1	☒	unk	---
131	118	3	10	5	Unk	C003-05T	10X	ID8C014131			1	☒	unk	---
132	119	3	11	5	Unk	C003-06T	10X	ID8C014132			1	☒	unk	---
133	120	3	12	5	Unk	C003-11T	10X	ID8C014133			1	☒	unk	---
134	121	4	1	1	Unk	C003-12T	10X	ID8C014134			1	☒	unk	---
135	122	4	2	1	Blank	Blank		ID8C014135			1	☐		---
136	123	4	3	1	QC	CCV12		ID8C014136			1	☒	CCV	None
137	124	4	4	1	QC	CCB12		ID8C014137			1	☒	3XIDL	None
138	125	4	5	1	Unk	C003-13T	10X	ID8C014138			1	☒	unk	---
139	126	4	6	1	Unk	C003-14T	10X	ID8C014139			1	☒	unk	---
140	127	4	7	1	Unk	C003-21T	10X	ID8C014140			1	☒	unk	---
141	128	4	8	1	Unk	C003-22T	10X	ID8C014141			1	☒	unk	---
142	129	4	9	1	Unk	C003-23T	10X	ID8C014142			1	☒	unk	---
143	130	4	10	1	Blank	Blank		ID8C014143			1	☐		---
144	131	4	11	1	QC	CCV13		ID8C014144			1	☒	CCV	None
145	132	4	12	1	QC	CCB13		ID8C014145			1	☒	3XIDL	None
146	133	4	1	2	Unk	ZZZZ		ID8C014146			1	☒	unk	---
147	131	4	11	1	QC	CCV14		ID8C014147			1	☒	CCV	None
148	132	4	12	1	QC	CCB14		ID8C014148			1	☒	3XIDL	None
149	133	4	1	2	Unk	C431-04A	100X	ID8C014149			1	☒	unk	---
150	134	4	2	2	Unk	C431-04I	100X	ID8C014150			1	☒	unk	---
151	135	4	3	2	Unk	C431-04J	500X	ID8C014151			1	☒	unk	---
152	136	4	4	2	Unk	C431-04G	100X	ID8C014152			1	☒	unk	---
153	137	4	5	2	Unk	C431-04H	100X	ID8C014153			1	☒	unk	---
154	138	4	6	2	Unk	C431-07I	100X	ID8C014154			1	☒	unk	---
155	139	4	7	2	Unk	C431-08		ID8C014155			1	☒	unk	---
156	140	4	8	2	Unk	C431-09I	100X	ID8C014156			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	141	4	9	2	Unk	C444-12		ID8C014157			1	☒	unk	—
158	142	4	10	2	Blank	Blank		ID8C014158			1	☐		—
159	143	4	11	2	QC	CCV15		ID8C014159			1	☒	CCV	None
160	144	4	12	2	QC	CCB15		ID8C014160			1	☒	3XIDL	None
161	145	4	1	3	QC	IPC026SB		ID8C014161			1	☒	1/2LOQ	None
162	146	4	2	3	QC	IPC026SL		ID8C014162			1	☒	LCS	None
163	147	4	3	3	QC	IPC026SC		ID8C014163			1	☒	LCS	None
164	148	4	4	3	Unk	C089-02A		ID8C014164			1	☒	unk	—
165	149	4	5	3	Unk	C089-02		ID8C014165			1	☒	unk	—
166	150	4	6	3	Unk	C089-02J		ID8C014166			1	☒	unk	—
167	151	4	7	3	Unk	C089-02M		ID8C014167			1	☒	unk	—
168	152	4	8	3	Unk	C089-02S		ID8C014168			1	☒	unk	—
169	153	4	9	3	Unk	C089-01		ID8C014169			1	☒	unk	—
170	154	4	10	3	Blank	Blank		ID8C014170			1	☐		—
171	155	4	11	3	QC	CCV16		ID8C014171			1	☒	CCV	None
172	156	4	12	3	QC	CCB16		ID8C014172			1	☒	3XIDL	None
173	157	4	1	4	Unk	C089-03		ID8C014173			1	☒	unk	—
174	158	4	2	4	Unk	C089-04		ID8C014174			1	☒	unk	—
175	159	4	3	4	Unk	C089-05		ID8C014175			1	☒	unk	—
176	160	4	4	4	Unk	C089-06		ID8C014176			1	☒	unk	—
177	161	4	5	4	Unk	C089-07		ID8C014177			1	☒	unk	—
178	162	4	6	4	Unk	C089-08		ID8C014178			1	☒	unk	—
179	163	4	7	4	Unk	C089-09		ID8C014179			1	☒	unk	—
180	164	4	8	4	Unk	C089-10		ID8C014180			1	☒	unk	—
181	165	4	9	4	Unk	C089-11		ID8C014181			1	☒	unk	—
182	166	4	10	4	Blank	Blank		ID8C014182			1	☐		—
183	167	4	11	4	QC	CCV17		ID8C014183			1	☒	CCV	None
184	168	4	12	4	QC	CCB17		ID8C014184			1	☒	3XIDL	None
185	169	4	1	5	Unk	C089-12		ID8C014185			1	☒	unk	—
186	170	4	2	5	Unk	C089-13		ID8C014186			1	☒	unk	—
187	171	4	3	5	Blank	Blank		ID8C014187			1	☐		—
188	172	4	4	5	QC	CCV18		ID8C014188			1	☒	CCV	None
189	173	4	5	5	QC	CCB18		ID8C014189			1	☒	3XIDL	None

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538180308

Book #: EIP-099
Batch: IPC026S
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SM5B-02-148	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 11124 1117

Prepared By: HF
Standard Added By: HF Witnessed By: [illegible]
Extract Rcvd By: TH Checked By: TH

ID8C014 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00083	.00002	-.00001	.00021	.00007	.00026	-.00004	.00030	-.00001	-.00098	Blank
2	S20					.87000		.11823				S20
3	S21					8.6618		1.1203				S21
4	S22				.45497						.15387	S22
5	S23				4.4979						1.5962	S23
6	S24						.09032					S24
7	S25						.93859					S25
8	S26	.24590							.91577	.13365		S26
9	S27	8.9667							8.4686	1.2917		S27
10	S28		.00535									S28
11	S29		.05183									S29
12	S30			.00126								S30
13	S31			.00510								S31
14	ICV	103.99	1.4228	1.0087	1.9395	1.4982	2.4267	1.9557	75.989	2.4168	.90988	ICV
15	ICB	.03796	.00155	-.00035	.00083	.00027*	.00801*	.00077*	.16532	.00081	.00044	ICB
16	MRLC1401	.20553	.09854	.00945	.00995	.00993	.01291*	.01015	1.0349	.01024	.00928	MRLC1401
17	MRLC1402	.21695	.05198	.00901	.00577	.00426	.09644	.00539	.60030*	.01044	.00898	MRLC1402
18	ICSA1	390.69	.00794	-.00153	.00270	.00000	.04790	-.00284	472.52	.00016	-.00160	ICSA1
19	ICSAB1	398.06	1.0268	1.0511	.52408	.49160	.54643	.95056	472.70	.47389	.46600	ICSAB1
20	CCV1	105.17	1.5268	1.0438	1.9884	1.4998	2.4789	1.9703	75.551	2.4496	.95672	CCV1
21	CCB1	.03541	.00106	-.00171	.00053	.00019	.00744*	.00030	.09880	.00042	.00027	CCB1
22	IPC024SB	.11954*	.00201	-.00279	.00081	.00068	.00356	.00005	.13966	.00106	-.00005	IPC024SB
23	IPC024SL	5.0001	2.3438	.48296	.48460	.49629	.45302	.48314	49.662	.49082	.48245	IPC024SL
24	IPC024SC	5.0135	2.3716	.48897	.48685	.49840	.45982	.48647	50.404	.49611	.48743	IPC024SC
25	C089-06A	85.080	2.3964	.60571	2.2291	.52333	.52705	.60336	89.491	.67482	.66586	C089-06A
26	C089-06	80.342	.01820	.09757	1.7677	.01094	.06978	.12366	39.747	.18031	.16742	C089-06
27	C089-06J	16.780	.00412	.02047	.36194	.00230	.01472	.02606	8.4509	.03809	.03333	C089-06J
28	C089-11	65.707	.00946	.07609	1.3427	.00702	.04629	.07798	27.110	.17773	.09540	C089-11
29	C089-12	57.418	.00979	.08083	1.3708	.00653	.04609	.06877	24.169	.16640	.08297	C089-12
30	C089-13	69.737	.01195	.09888	1.1959	.00779	.06270	.05356	23.565	.20618	.09510	C089-13
31	Blank	.04665	.00009	-.00116	.00157	.00008	.00080	.00002	.09322	.00022	.00010	Blank
32	CCV2	104.66	1.5285	1.0373	1.9952	1.4996	2.4754	1.9456	74.878	2.4357	.96242	CCV2
33	CCB2	.02054	.00144	-.00114	.00067	.00038*	.00675	.00021	.08674	.00049	.00011	CCB2
34	C454-07	.04400	.00274	-.00477	.00046	.00019	-.00500	.00001	.91327	.00094	-.00060	C454-07
35	C454-07M	5.3212	2.4012	.49326	.49063	.49852	.46666	.46656	49.508	.48593	.48773	C454-07M
36	C454-07S	5.3524	2.4511	.50583	.49574	.50362	.47383	.47757	50.317	.48983	.49403	C454-07S
37	Blank	.00551	.00141	-.00126	.00024	.00016	.00270	.00011	.04983	.00030	.00020	Blank
38	CCV3	106.03	1.5100	1.0279	2.0017	1.4998	2.4720	1.9383	74.743	2.4348	.96092	CCV3
39	CCB3	.02294	.00119	-.00038	.00088	.00049*	.00826*	.00021	.08817	.00040	.00026	CCB3
40	IPC023WB	.00920	-.00006	-.00124	.00011	.00011	.00519	.00004	.01867	.00014	.00012	IPC023WB
41	IPC023WL	5.5751	2.4889	.51817	.50059	.51603	.50721	.50537	50.275	.50300	.48570	IPC023WL
42	IPC023WC	5.4796	2.4681	.51683	.49246	.51084	.50240	.51113	49.947	.50405	.47736	IPC023WC
43	TXC003SB	.04473	.00117	-.00157	.00148	.00012	.03125	-.00001	.07183	.00045	.00014	TXC003SB
44	C429-01A	6.0100	2.5522	.56939	.98432	.52466	.75058	.52770	138.04	.51496	.56953	C429-01A
45	C429-01	.04175	.00624	-.00299	.47748	.00007	.23073	.01131	94.117	.00334	.06896	C429-01
46	C429-01J	.01736	.00123	.00000	.09673	.00005	.04625	.00232	19.265	.00095	.01370	C429-01J
47	C429-01M	5.9727	2.5894	.55712	.98053	.51558	.75758	.50781	138.00	.50186	.56257	C429-01M
48	C429-01S	5.8430	2.5786	.55173	.97685	.50841	.75938	.50356	138.96	.49754	.55755	C429-01S
49	Blank	.01156	.00141	-.00148	.00008	.00009	.00254	.00003	.05688	.00017	-.00004	Blank
50	CCV4	108.75	1.5222	1.0418	2.0401	1.5159	2.5105	1.9545	73.799	2.4615	.96579	CCV4
51	CCB4	.02912	.00109	-.00164	.00055	.00031*	.00703	.00021	.08624	.00045	.00011	CCB4
52	C429-02	.05860	.00719	-.00247	.37646	.00012	.59055	.01859	9.8320	.00645	.00074	C429-02
53	C429-03	.09557	.00191	-.00215	.17714	.00002	.22306	.02228	6.6174	.00122	.00476	C429-03
54	C429-04	.12024	.00136	-.00168	.32357	.00002	.16091	.00413	6.0424	.00170	.00045	C429-04

55	C429-05	.04993	.00035	-.00299	.32606	-.00001	.16361	-.00009	72.694	.00043	.00014	C429-05
56	C429-06	.12496	.00127	-.00155	.33242	.00000	.24504	.00191	7.1601	.00105	.00086	C429-06
57	C415-01	.12635	.00027	.11670	.43098	.00001	.31815	.00021	2.6091	.03222	.00386	C415-01
58	C415-02	.06374	.00056	.19599	.25372	-.00001	.28251	.00009	8.9502	.07753	.00048	C415-02
59	C415-03	.06698	-.00032	-.00202	.04392	-.00006	.18718	.00057	231.59	.00122	.00148	C415-03
60	C415-04	.05207	.00045	-.00320	.04447	-.00006	.41684	.00040	258.01	.00097	.00019	C415-04
61	Blank	.01354	.00112	-.00195	-.00012	.00003	.00184	.00002	.13924	.00010	.00000	Blank
62	CCV5	107.75	1.5180	1.0196	2.0234	1.4837	2.4756	1.8659	72.101	2.3534	.97958	CCV5
63	CCB5	.02638	.00163	-.00123	.00095	.00058*	.00619	.00023	.11354	.00036	.00009	CCB5
64	C415-05	.06148	.00001	-.00204	.35940	.00003	.21990	.00002	2.8537	.00047	.01557	C415-05
65	C415-06	.04273	-.00085	-.00112	.04949	-.00005	.17462	.00044	253.23	.00106	.00030	C415-06
66	C415-07	.09445	-.00011	-.00211	.04417	-.00006	.42267	.00100	205.27	.00106	.00034	C415-07
67	B526-01	.06640	-.00003	-.00339	.07030	-.00001	.15389	.00105	179.09	.00141	.00623	B526-01
68	Blank	.00750	.00005	-.00181	.00013	.00001	.00180	.00005	.19794	-.00003	-.00002	Blank
69	CCV6	106.43	1.5077	1.0056	2.0286	1.4863	2.4646	1.8268	72.085	2.3436	.98279	CCV6
70	CCB6	.02330	.00106	-.00104	.00059	.00037*	.00647	.00021	.08236	.00042	.00015	CCB6
71	IPC022WB	.02443	.00010	-.00035	.00021	.00005	.00520	.00009	.05748	.00022	-.00003	IPC022WB
72	IPC022WL	5.4914	2.4981	.50791	.49930	.50571	.50940	.48829	49.116	.48886	.48830	IPC022WL
73	IPC022WC	5.6019	2.4346	.51364	.50554	.51282	.49948	.49396	48.857	.49500	.49092	IPC022WC
74	C113-01A	5.8432	2.4610	.52907	.54339	.51913	.52386	.50308	57.877	.50310	.49918	C113-01A
75	C113-01	.05754	.00489	-.00152	.03179	.00030	.01862	.00028	9.1847	.00085	.00022	C113-01
76	C113-01J	.01799	.00140	-.00047	.00644	.00001	.00448	.00002	1.9141	.00018	.00012	C113-01J
77	C113-01M	5.7831	2.5464	.53287	.54550	.51764	.52774	.50475	57.246	.50200	.49519	C113-01M
78	C113-01S	5.7913	2.5191	.53007	.54899	.51967	.52746	.50243	58.003	.50396	.49937	C113-01S
79	C064-01	89.350	-.00024	.02195	.97894	.00306	.10406	.00183	233.12	.13314	.04880	C064-01
80	Blank	.02797	.00086	.00015	.00032	-.00002	.00130	.00002	.06271	-.00007	.00012	Blank
81	CCV7	107.60	1.5150	1.0317	2.0407	1.4962	2.4840	1.9033	71.783	2.3937	.97375	CCV7
82	CCB7	.02676	.00138	.00014	.00097	.00037*	.00561	.00027	.22620	.00038	.00018	CCB7
83	WTC001SB	.08661	-.00550	-.00108	.00196	.00013	.00610	-.00008	.07019	.00520*	.00015	WTC001SB
84	WTC001SQ	.01304	.00027	-.00295	.00028	-.00002	.00192	-.00003	.02051	.00087	-.00020	WTC001SQ
85	B526-01A	8.6191	2.5273	.56472	.69512	.50285	.57239	.49005	152.08	.60405	.50875	B526-01A
86	B526-01T	2.9747	.01750	.00495	.19608	.00016	.05690	-.00136	109.97	.10526	.00517	B526-01T
87	B526-01J	.57196	.00364	.00225	.03814	.00009	.01134	-.00046	21.472	.02071	.00104	B526-01J
88	B526-01G	4.1847	.53763	.11995	.30112	.10385	.16102	.10216	118.20	.20953	.10591	B526-01G
89	B526-01H	4.4327	.54233	.12302	.31700	.10351	.16462	.10225	124.09	.21654	.10573	B526-01H
90	Blank	.01317	.00087	-.00062	.00011	.00007	.00067	.00001	.06049	.00005	-.00002	Blank
91	Blank	.01374	.00030	-.00079	.00007	.00002	.00059	-.00001	.02635	.00003	.00010	Blank
92	CCV8	109.18	1.5224	1.0526	2.0654	1.5251	2.5388	1.9649	73.216	2.4755	.97588	CCV8
93	CCB8	.02209	.00126	-.00093	.00049	.00021*	.00504	.00017	.07725	.00028	.00007	CCB8
94	IPC025SB	.03343	.00250	-.00183	.00030	.00015	.00249	-.00004	.07697	.00072	.00003	IPC025SB
95	IPC025SL	5.1242	2.3495	.48839	.49677	.49816	.46011	.48139	48.376	.49496	.49292	IPC025SL
96	IPC025SC	5.1707	2.3847	.49562	.50258	.50289	.46599	.48388	48.994	.49587	.49897	IPC025SC
97	C431-04A	9.8567	2.8046	.57192	5.4060	.52031	.51183	.64184	112.79	.52539	.54928	C431-04A
98	C431-04T	4.0539	.37767	.04053	5.0166	.00014	.00683	.14789	64.363	.02110	.04881	C431-04T
99	C431-04J	.78712	.07554	.00659	.98253	.00006	.00223	.02900	12.932	.00422	.00945	C431-04J
100	C431-04M	5.0391	.39472	.08624	1.8386	.04934	.05363	.16625	65.950	.05939	.09337	C431-04M
101	C431-04S	5.3117	.70478	.09096	6.0837	.04975	.05322	.21907	42.182	.07405	.10491	C431-04S
102	C431-01T	6.0385	-.02911	.03192	1.3436	.00010	.00729	.07445	14.610	7.3725	.16751	C431-01T
103	Blank	.01065	.00059	-.00124	.00198	.00010	.00047	.00007	.05933	.00114	.00008	Blank
104	CCV9	108.86	1.4973	1.0425	2.0315	1.5244	2.5163	1.9755	73.851	2.4858	.96695	CCV9
105	CCB9	.04615	.00154	-.00033	.00155	.00053*	.00548	.00056*	.25057	.00109	.00024	CCB9
106	C431-02T	2.7157	.37386	.01150	6.4872	.00007	.01286	.01355	10.736	8.1901	.16548	C431-02T
107	C431-03T	6.5465	.09721	.35131	4.5766	.00012	.00979	.09817	30.774	.03764	.04486	C431-03T
108	C431-05T	13.483	.02230	-.00019	.11418	.00015	.00767	.00349	12.859	.00617	.03592	C431-05T
109	C431-06T	6.5777	.34794	.05260	4.4986	.00010	.01725	.15591	39.653	.05865	.06298	C431-06T
110	C431-07T	3.4001	1.0485	.09263	8.8416	.00008	.00831	.27160	43.255	.04949	.07608	C431-07T
111	C431-08T	8.7054	.00269	.47936	.01520	.00001	.01383	.00080	15.320	.57459	.04819	C431-08T

112	C431-09T	4.2142	.20770	.09173	9.2476	.00007	.00653	.16402	27.489	.09269	.05063	C431-09T
113	C431-10T	6.8789	.01085	.00015	.03494	.00004	.01370	.00040	32.355	.00958	.11927	C431-10T
114	C431-11T	8.3453	1.1371	.02293	6.3397	.00009	.00773	.10076	67.304	.06152	.08532	C431-11T
115	Blank	.01137	.00120	-.00044	.00280	.00000	.00008	-.00001	.04363	.00009	.00001	Blank
116	CCV10	108.01	1.4960	1.0358	2.0162	1.5087	2.5079	1.9662	73.519	2.4745	.96471	CCV10
117	CCB10	.03635	.00092	-.00118	.00114	.00039*	.00561	.00027	.20160	.00074	.00010	CCB10
118	C431-12T	4.9230	1.1216	.01550	.31724	.00010	.00986	.01343	49.518	.20625	.10110	C431-12T
119	C443-02T	.20098	.00599	.00193	.01451	.00004	.01928	-.00155	.43510	.31017	.00976	C443-02T
120	C444-01T	9.3340	.00159	-.00091	.00722	.00005	.00171	.01141	.47258	.02139	.00782	C444-01T
121	C444-12T	.18313	.00118	-.00011	.01852	-.00001	.00211	.00056	1.6833	.00058	.00466	C444-12T
122	C106-02	.02720	.00018	.00202	.09129	.00002	.05614	.00002	61.852	.01356	-.00036	C106-02
123	C106-03	.03380	.00097	.00236	.08689	.00002	.05590	.00007	60.987	.01231	-.00019	C106-03
124	Blank	.01999	.00045	-.00193	.00006	.00003	.00060	.00000	.07286	.00005	.00010	Blank
125	CCV11	108.44	1.4948	1.0307	2.0543	1.5125	2.5144	1.9434	72.685	2.4679	.97029	CCV11
126	CCB11	.03632	.00089	-.00124	.00168	.00090*	.00595	.00028	.17307	.00078	.00019	CCB11
127	C003-01T	.26927	-.00107	-.00179	.00644	.00015	.07996	.00003	7.5592	.16106	.00199	C003-01T
128	C003-02T	.09992	-.00084	-.00008	.00489	.00013	.07939	.00008	7.8790	.15069	.00169	C003-02T
129	C003-03T	1.0012	.00064	-.00143	.01354	.00078	.05946	.00009	12.561	.00086	.00508	C003-03T
130	C003-04T	.81793	.00087	-.00143	.01169	.00080	.05844	.00016	12.559	.00027	.00513	C003-04T
131	C003-05T	.25165	.00067	-.00198	.00936	.00023	.06199	.00004	12.479	.00039	.00231	C003-05T
132	C003-06T	.20066	.00025	-.00271	.00955	.00022	.06310	.00003	12.412	.00031	.00240	C003-06T
133	C003-11T	.03675	.00058	.09855	.00161	.00001	.01373	-.00008	1.2173	.04875	-.00008	C003-11T
134	C003-12T	.02291	.00005	.08371	.00197	-.00001	.01486	-.00010	1.3577	.04128	.00007	C003-12T
135	Blank	.01685	.00009	-.00039	.00019	.00000	.00003	-.00005	.02034	-.00013	-.00017	Blank
136	CCV12	25.734*	1.4301	-2.6041*	.44037*	.04591*	.59784*	-.19698*	3.7001*	.17978*	-1.5696*	CCV12
137	CCB12	.01476	-.00041	-.00084	.00052	.00008	.00002	.00007	.14541	.00017	.00025	CCB12
138	C003-13T	.39295	.00052	.01244	.00752	.00004	.04308	-.00004	4.5849	.00774	-.00004	C003-13T
139	C003-14T	.01528	.00069	.01168	.00450	.00001	.04342	-.00001	4.2209	.00673	-.00001	C003-14T
140	C003-21T	.01354	.00035	.00051	.00227	.00001	.08905	-.00006	1.2152	.00000	-.00003	C003-21T
141	C003-22T	.23423	.00069	.01212	.00629	.00001	.04301	-.00003	4.6043	.00709	-.00011	C003-22T
142	C003-23T	.01618	.00080	.01104	.00445	.00001	.04249	-.00005	4.2063	.00679	-.00014	C003-23T
143	Blank	.01133	.00179	-.00148	.00002	.00000	.00030	-.00016	.01338	.00040	-.00005	Blank
144	CCV13	33.346*	2.8750*	-5.4895*	.21860*	.02412*	.42707*	-.40750*	.32623*	.06658*	-.91793*	CCV13
145	CCB13	.01902	.00049	-.00068	.00042	.00012	-.00008	.00013	.14230	.00026	.00019	CCB13
146	ZZZZ	6.2776	2.4886	.53802	1.0198	.52629	.51496	.53018	55.065	.51709	.50334	ZZZZ
147	CCV14	108.79	1.5072	1.0427	2.0586	1.5100	2.5292	1.9451	72.122	2.4604	.97325	CCV14
148	CCB14	.02380	.00158	-.00093	.00022	.00026*	.00466	.00018	.00687	.00036	.00006	CCB14
149	C431-04A	6.1616	2.4683	.53225	1.0152	.52157	.51281	.52237	55.070	.51042	.50463	C431-04A
150	C431-04I	.42946	.04142	.00290	.52534	.00018	.00230	.01604	6.7929	.00251	.00494	C431-04I
151	C431-04J	.09201	.00796	-.00088	.10098	.00006	.00120	.00298	1.3309	.00036	.00099	C431-04J
152	C431-04G	.49878	.03943	.00669	.18295	.00489	.00593	.01690	6.6417	.00601	.00904	C431-04G
153	C431-04H	.54129	.07110	.00598	.62697	.00493	.00567	.02249	4.2650	.00759	.01037	C431-04H
154	C431-07I	.33080	.10338	.00769	.87666	-.00001	.00110	.02690	4.3731	.00495	.00736	C431-07I
155	C431-08	83.730	-.00120	4.8411	.13651	.00032	.13028	.00756	148.07	5.6618	.51258	C431-08
156	C431-09I	.47564	.02110	.01034	.92703	.00000	.00111	.01670	2.9786	.01358	.00506	C431-09I
157	C444-12	1.5194	.00497	-.00062	.17717	-.00001	.01386	.00535	15.348	.00481	.04803	C444-12
158	Blank	.00560	-.00016	-.00091	.00029	.00001	.00018	-.00002	.03063	.00004	.00003	Blank
159	CCV15	105.15	1.4870	1.0160	2.0294	1.4964	2.4917	1.9011	73.231	2.4318	.96634	CCV15
160	CCB15	.03371	.00138	-.00039	.00106	.00048*	.00605	.00025	.16466	.00065	.00012	CCB15
161	IPC026SB	.02153	.00141	-.00194	.00032	.00025	.00251	-.00007	.02080	.00082	-.00007	IPC026SB
162	IPC026SL	5.1477	2.3457	.48783	.50271	.50185	.46525	.47841	49.114	.49558	.50161	IPC026SL
163	IPC026SC	5.2293	2.3914	.49488	.50903	.50762	.47231	.48354	49.488	.50165	.50829	IPC026SC
164	C089-02A	105.63	2.3472	.58907	2.3381	.51482	.50147	.46786	78.965	.66609	.62207	C089-02A
165	C089-02	100.93	.01089	.09493	1.8810	.01243	.05103	.00093	31.572	.18804	.12139	C089-02
166	C089-02J	21.445	.00306	.01716	.38499	.00264	.01092	-.00007	6.6686	.03946	.02400	C089-02J
167	C089-02M	159.86	2.0784	.58057	2.4161	.51680	.45559	.47370	82.068	.66440	.58898	C089-02M
168	C089-02S	156.03	1.9052	.58151	2.2725	.51635	.46070	.47468	84.406	.68803	.58996	C089-02S

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
169	C089-01	89.816	.00677	.05389	1.4875	.00942	.03345	.00327	30.954	.12528	.08416	C089-01
170	Blank	.09326	.00052	-.00126	.00159	.00016	.00097	.00010	.05901	.00029	.00022	Blank
171	CCV16	109.31	1.5011	1.0547	2.0487	1.5322	2.5203	2.0071	74.388	2.5170	.96384	CCV16
172	CCB16	.03995	.00120	-.00135	.00074	.00036*	.00540	.00039	.04525	.00064	.00017	CCB16
173	C089-03	113.97	.00885	.10102	1.0087	.01004	.05671	.01166	20.231	.22665	.10189	C089-03
174	C089-04	114.11	.00854	.09543	.94304	.01020	.04615	.03411	92.082	.22344	.13438	C089-04
175	C089-05	92.850	.01831	.09695	1.3696	.01076	.05190	.38030	41.276	.16880	.11843	C089-05
176	C089-06	88.069	.00889	.05724	1.2952	.00842	.04217	.11045	32.636	.14839	.10048	C089-06
177	C089-07	84.586	.00987	.07545	1.3043	.00863	.04472	.06582	55.173	.16268	.09169	C089-07
178	C089-08	101.79	.01090	.11118	1.4933	.01054	.06500	.02238	41.044	.27201	.17033	C089-08
179	C089-09	87.868	.00898	.06661	1.9153	.00872	.04172	.08751	45.470	.15169	.06711	C089-09
180	C089-10	66.485	.00613	.04349	1.0761	.00630	.02685	.02409	26.607	.10376	.03790	C089-10
181	C089-11	55.560	.00635	.04905	.72203	.00506	.04677	.05255	20.803	.13335	.03560	C089-11
182	Blank	.04676	.00062	-.00133	.00076	.00003	.00001	-.00002	.03697	.00009	.00014	Blank
183	CCV17	107.43	1.4333	1.0171	2.0015	1.5112	2.4769	1.9405	73.927	2.4198	.93667	CCV17
184	CCB17	.03283	.00098	-.00123	.00045	.00032*	.00532	.00026	.02985	.00062	.00011	CCB17
185	C089-12	68.417	.01126	.09249	1.5519	.00720	.07029	.07573	23.331	.18310	.08022	C089-12
186	C089-13	64.523	.01106	.08365	1.1887	.00654	.06700	.04030	17.910	.20766	.12071	C089-13
187	Blank	.05230	.00038	-.00164	.00182	.00004	.00095	-.00001	.06429	.00014	-.00002	Blank
188	CCV18	106.56	1.4481	1.0273	1.9951	1.5062	2.4776	1.9437	73.883	2.4069	.93368	CCV18
189	CCB18	.02607	.00112	-.00181	.00040	.00031*	.00572	.00019	.03012	.00046	.00011	CCB18

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ID8C014 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00131	.00000	-.00008	.00002	.00000	.00001	-.00005	-.00055	-.00031	.00000	Blank
2	S20			.19471			.11073					S20
3	S21			1.9443			1.1040					S21
4	S22	.30955	.05965									S22
5	S23	2.9889	2.2368									S23
6	S24							.74050				S24
7	S25							7.5295				S25
8	S26								.76610	.31817		S26
9	S27								7.2834	3.1834		S27
10	S28					.11273						S28
11	S29					.45351						S29
12	S30				.02707						.00136	S30
13	S31				.13289						.00545	S31
14	ICV	2.4439	24.992	2.3716	.51649	56.558	2.2887	2.3785	2.4370	58.289	.99338	ICV
15	ICB	.00099	.01426	.00116	.00025	.01055	.00063	.00288*	.00098	.09300	-.00066	ICB
16	MRLC1401	.00990	.21808	.01092	.00955	.95484	.00985	.01011	.01039	.97235	.00821	MRLC1401
17	MRLC1402	.01050	.10972	.00391*	.09996	.19878	.00522	.00983	.01042	.98705	.00903	MRLC1402
18	ICSA1	.00098	181.61	.00105	.00500	182.13	.00141	-.00068	.00059	-.01160	.00312	ICSA1
19	ICSAB1	.52425	187.95	.94171	1.1015	188.35	.45360	1.0031	.98499	77.232	1.0440	ICSA81
20	CCV1	2.4968	25.062	2.4344	.52494	56.566	2.3375	2.5158	2.5113	59.150	1.0379	CCV1
21	CCB1	.00043	.05044	.00086	.00017	.01391	.00068	.00227*	.00044	.08320	.00013	CCB1
22	IPC024SB	.00086	.06096	.00074	.00049	.06212	.00118	.00066	.00060	.12699	-.00027	IPC024SB
23	IPC024SL	.49300	5.0385	.48924	.00010*	46.158	.46982	.51430	.45236	47.246	.48085	IPC024SL
24	IPC024SC	.49716	5.0498	.49094	.00035*	46.680	.47191	.52116	.45558	48.013	.48344	IPC024SC
25	C089-06A	.61588	212.97	3.0895	.03527	54.108	9.7621	.53773	.67255	56.950	.50529	C089-06A
26	C089-06	.09373	214.70	2.6933	.03503	7.2853	9.6265	.00959	.20041	7.4372	.00352	C089-06
27	C089-06J	.01933	45.922	.55684	.00691	1.5238	2.0229	.00193	.04055	1.5270	-.00042	C089-06J
28	C089-11	.12489	139.58	.61897	.02708	6.2375	6.5661	.00986	.09207	5.5856	.00468	C089-11
29	C089-12	.11384	140.48	.54479	.02259	5.3876	6.4748	.00746	.08047	4.8929	.00487	C089-12
30	C089-13	.10053	192.79	.49501	.02614	6.0104	5.9447	.00855	.08224	4.7946	.00558	C089-13
31	Blank	.00018	.10042	.00098	.00045	.00661	.00685	.00020	.00018	.03500	-.00023	Blank
32	CCV2	2.5257	24.692	2.4444	.52610	56.176	2.3300	2.5337	2.5206	58.976	1.0344	CCV2
33	CCB2	.00064	.00603	.00106	.00031	.01562	.00085	.00207*	.00051	.06315	.00048	CCB2
34	C454-07	.00198	.04527	-.00627*	77.900*	.04977	.00096	.00045	.00054	.11784	.00044	C454-07
35	C454-07M	.51930	4.9455	.47652	75.121*	44.807	.46271	.52699	.45604	49.334	.49830	C454-07M
36	C454-07S	.52753	4.9945	.48156	81.569*	45.467	.46735	.53190	.46110	50.358	.51369	C454-07S
37	Blank	.00035	.00311	.00075	.04667	.00667	.00022	.00053	.00030	.21661	.00019	Blank
38	CCV3	2.5254	24.771	2.4392	.54178	55.989	2.3296	2.5216	2.5170	59.413	1.0270	CCV3
39	CCB3	.00076	.00576	.00122	.00907*	.00985	.00079	.00211*	.00036	.14245	.00078	CCB3
40	IPC023WB	.00032	.00654	.00083	.00586	.00796	.00032	.00034	.00022	.06785	.00022	IPC023WB
41	IPC023WL	.52422	5.2116	.50037	.00553*	47.024	.48099	.50742	.45605	48.821	.51285	IPC023WL
42	IPC023WC	.51927	5.1339	.49050	.00560*	47.066	.47940	.49927	.44800	48.256	.51533	IPC023WC
43	TXC003SB	.00107	.00652	.00005	.00584	.01101	.00056	.00102	.00034	.20598	.00167	TXC003SB
44	C429-01A	.65601	5.4555	.50227	.01467	48.680	.65909	.53111	.59310	54.362	.58204	C429-01A
45	C429-01	.08833	.29714	.00162	.01391	1.7891	.17660	.00539	.11690	1.5247	.00162	C429-01
46	C429-01J	.01764	.06182	.00128	.00576	.37983	.03612	.00109	.02303	.38796	.00005	C429-01J
47	C429-01M	.64707	5.3316	.49652	.01317	47.744	.64728	.53252	.57753	53.884	.57584	C429-01M
48	C429-01S	.63582	5.2928	.49278	.01361	47.300	.64242	.52865	.57320	53.628	.56921	C429-01S
49	Blank	.00047	.00168	.00029	.00365	.01005	.00013	.00052	.00007	.19331	.00085	Blank
50	CCV4	2.6203	24.641	2.4400	.54295	55.633	2.3432	2.5415	2.5338	60.203	1.0441	CCV4
51	CCB4	.00077	.00598	.00080	.00268*	.01307	.00052	.00184*	.00056	.12731	-.00033	CCB4
52	C429-02	.00709	.07575	.00565	.51899	2.0442	.03347	.01535	.00501	1.1988	.00174	C429-02
53	C429-03	1.4010	.05541	.00487	.00606	2.9148	.08490	.00059	.29343	1.6588	.00110	C429-03
54	C429-04	.03046	.11799	.00339	.01468	.53500	.00905	.00042	.00801	1.0509	.00240	C429-04

55	C429-05	.00449	-.01197	.00059	.00682	56.086	.08864	.01019	.01379	1.8437	.00104	C429-05
56	C429-06	.17804	.13983	.00124	.00687	1.6066	.08520	.00067	.05362	1.3105	.00171	C429-06
57	C415-01	.12567	.02483	.00243	.00480	.28991	.07006	.00017	.00107	1.7058	.00206	C415-01
58	C415-02	.60090	.02686	.00050	.00422	1.1723	.11584	.00022	.00065	2.8293	.00226	C415-02
59	C415-03	.00836	.01046	.00206	.00802	.87260	1.6888	.00095	.00196	1.5682	.00159	C415-03
60	C415-04	.00307	.01056	.00178	.00865	1.4962	.34335	.00189	.00128	7.6192	.00212	C415-04
61	Blank	.00032	.00032	.00110	.00262	.00312	.00023	.00015	.00011	.13049	-.00120	Blank
62	CCV5	2.6081	23.711	2.4627	.54050	53.343*	2.2812	2.5958	2.5606	59.164	1.0369	CCV5
63	CCB5	.00132*	.00413	.00050	.00182	.01696	.00105	.00157*	.00031	.12907	-.00027	CCB5
64	C415-05	.00298	.01190	.00065	.00221	.16894	.06295	.00036	.00039	1.4259	.00250	C415-05
65	C415-06	.00242	.00928	.00105	.00621	1.0050	1.5031	.00120	.00133	1.3947	.00086	C415-06
66	C415-07	.00381	.01479	.00458	.00767	1.8973	.62468	.00131	.00140	8.0201	.00115	C415-07
67	B526-01	.16211	.86108	.00508	.00718	3.9428	.54447	.00048	.60876	1.7087	.00115	B526-01
68	Blank	.00036	-.00146	.00045	.00222	.00054	.00054	.00015	.00020	.12766	.00046	Blank
69	CCV6	2.5996	23.678	2.4606	.54094	53.438*	2.2783	2.6028	2.5625	59.470	1.0229	CCV6
70	CCB6	.00085	.00243	.00152	.00123	.01116	.00078	.00153*	.00030	.13280	-.00004	CCB6
71	IPC022WB	.00021	.00341	.00099	.00124	.00451	.00023	.00034	.00018	.08359	-.00039	IPC022WB
72	IPC022WL	.52645	4.9930	.50117	.00193*	45.325	.47013	.51623	.45731	49.178	.51371	IPC022WL
73	IPC022WC	.53720	5.0386	.50057	.00157*	45.359	.47679	.50362	.46019	49.263	.51856	IPC022WC
74	C113-01A	.56425	5.2413	.50946	.00341	47.269	.48498	.51444	.47659	51.059	.53293	C113-01A
75	C113-01	.01203	.12025	.00478	.00248	1.4184	.00311	.00098	.00103	1.6586	-.00027	C113-01
76	C113-01J	.00249	.02359	.00168	.00116	.28637	.00072	.00031	.00018	.36428	-.00125	C113-01J
77	C113-01M	.56633	5.2009	.50547	.00325	47.023	.48226	.52158	.46491	50.656	.53387	C113-01M
78	C113-01S	.56668	5.2343	.51043	.00263	47.330	.48580	.51947	.46878	51.553	.53741	C113-01S
79	C064-01	.18891	82.765	.08879	.09766	34.087	2.1555	.01222	.08533	28.727	.00172	C064-01
80	Blank	.00008	.02018	.00091	.00086	.00978	.00052	.00018	.00001	.06790	-.00052	Blank
81	CCV7	2.6388	23.888	2.4390	.54338	53.843*	2.3067	2.5649	2.5458	59.705	1.0486	CCV7
82	CCB7	.00064	.00562	.00090	.00112	.01380	.00078	.00167*	.00049	.11009	-.00022	CCB7
83	WTC001SB	.00212	.01736	-.00003	.00761	.01427	.00066	.00081	.00046	1.0641*	.02714*	WTC001SB
84	WTC001SQ	.00090	.00079	.00027	.00445	-.00706	.00017	.00027	.00001	.43988	.00341	WTC001SQ
85	B526-01A	.55873	119.45	1.7566	.00735	47.614	1.1178	.54196	.94349	54.325	.58271	B526-01A
86	B526-01T	.00425	118.87	1.2917	.00708	2.8143	.67576	.02150	.48438	1.1199	.00343	B526-01T
87	B526-01J	.00108	23.274	.25015	.00355	.54790	.13287	.00415	.09181	.35462	.00102	B526-01J
88	B526-01G	.11791	119.50	1.3572	.00730	11.967	.76611	.12739	.56813	12.008	.12159	B526-01G
89	B526-01H	.11945	127.35	1.4514	.00933	12.120	.81155	.12976	.60406	12.159	.12263	B526-01H
90	Blank	.00032	.02815	.00045	.00324	.00499	.00029	.00017	.00014	.20278	-.00024	Blank
91	Blank	.00017	.00430	.00071	.00163	-.00647	.00020	.00007	-.00001	.12836	-.00072	Blank
92	CCV8	2.6935	24.284	2.4318	.54834	55.525	2.3632	2.5545	2.5543	60.661	1.0593	CCV8
93	CCB8	.00058	.00407	.00052	.00149	.00694	.00046	.00158*	.00017	.16109	.00003	CCB8
94	IPC025SB	.00066	.01722	.00074	.00095	.01082	.00046	.00063	.00034	.13873	-.00035	IPC025SB
95	IPC025SL	.51975	4.9213	.48964	.00178*	44.902	.47045	.52282	.46035	48.204	.49403	IPC025SL
96	IPC025SC	.52585	4.9417	.49463	.00147*	45.488	.47377	.53498	.46671	48.970	.49863	IPC025SC
97	C431-04A	.57236	6.6518	90.406*	.01162	50.635	.55881	.51151	.48150	51.338	.53051	C431-04A
98	C431-04T	.01977	1.5627	91.962*	.01027	4.3124	.07547	.00103	.00552	.67021	-.00002	C431-04T
99	C431-04J	.00412	.30922	18.195	.00235	.86460	.01509	-.00016	.00111	.19243	.00009	C431-04J
100	C431-04M	.06926	1.5853	83.972	.00918	8.5570	.11193	.03903	.04844	5.3734	.03812	C431-04M
101	C431-04S	.07436	2.2348	120.07*	.01101	9.0625	.12113	.03733	.05083	5.4084	.04217	C431-04S
102	C431-01T	.10880	8.9563	88.089	.00634	2.7239	.11171	.01426	.02372	.84455	.00054	C431-01T
103	Blank	.00009	.00272	.02261	.00018	.00503	.00019	.00011	.00009	.04454	.00041	Blank
104	CCV9	2.6395	24.362	2.4073	.54452	56.055	2.3666	2.5154	2.5186	60.279	1.0435	CCV9
105	CCB9	.00099	.00851	.00760*	.00064	.02448	.00114	.00199*	.00073	.09054	-.00031	CCB9
106	C431-02T	.12490	9.5540	50.491	.00434	1.1706	.06386	.00346	.00548	1.5231	.00112	C431-02T
107	C431-03T	.05674	3.6313	81.494	.00688	4.6715	.09502	.00079	.01721	.78687	.00183	C431-03T
108	C431-05T	16.802	1.6276	4.8888	.00292	.73559	.02142	-.00010	.00641	1.9384	-.00090	C431-05T
109	C431-06T	.13905	7.3993	72.840	.00736	3.4925	.24396	.00073	.05437	.68673	.00049	C431-06T
110	C431-07T	.82109	4.3024	124.43*	.00924	4.7769	.18576	.00146	.10354	.49277	.00190	C431-07T
111	C431-08T	.22124	1.3059	.06053	.00160	1.3426	.01109	-.00029	.00272	.26598	-.00032	C431-08T

112	C431-09T	.04021	2.6066	121.17*	.00906	4.1733	.07386	.00115	.00501	.58345	.00177	C431-09T
113	C431-10T	.24341	30.038	.25178	.00388	1.8281	.06081	.00043	.00482	.41471	.00014	C431-10T
114	C431-11T	.01764	2.5707	84.685	.00578	3.0280	.05806	.00018	.01103	.85560	-.00050	C431-11T
115	Blank	-.00003	.00379	.01630	.00053	-.00315	.00012	.00009	.00001	.01303	.00053	Blank
116	CCV10	2.6102	24.297	2.4193	.54181	55.356	2.3420	2.5157	2.5165	60.001	1.0376	CCV10
117	CCB10	.00091	.00639	.00278	.00087	.01466	.00089	.00182*	.00033	.06096	.00003	CCB10
118	C431-12T	.03070	13.682	5.3840	.00554	1.3611	.06537	.00027	.01158	.52041	.00000	C431-12T
119	C443-02T	.01008	105.39	.87205	.00203	.48324	.42644	.01963	.00534	.07319	-.00100	C443-02T
120	C444-01T	.00553	.84918	.08368	.00063	.63509	.00866	.00040	.00557	.09972	.00047	C444-01T
121	C444-12T	.00207	.15700	.00500	.00085	.02911	.00162	.00028	.00060	.06486	-.00066	C444-12T
122	C106-02	.00074	.00209	.00148	.03410	11.823	.00021	.01848	-.00004	2.2250	-.00024	C106-02
123	C106-03	.00085	.20723	.00200	.03396	11.611	.00788	.01894	.00114	2.2232	.00114	C106-03
124	Blank	.00022	.00232	.00083	.00137	.00241	.00021	.00014	-.00001	.02923	-.00011	Blank
125	CCV11	2.6638	24.254	2.4161	.54683	54.921	2.3396	2.5263	2.5336	60.471	1.0472	CCV11
126	CCB11	.00083	.00883	.00177	.00098	.03413	.00149	.00146*	.00033	.11023	-.00020	CCB11
127	C003-01T	.00263	.13719	.00072	.01466	24.161	.00514	.00026	.00875	1.1317	.00826	C003-01T
128	C003-02T	.00184	-.00781	.00017	.01615	24.728	.00463	.00027	.00833	1.1654	.00868	C003-02T
129	C003-03T	.00516	.14513	.00100	.02329	40.947	.02169	-.00002	.01637	1.2208	.00518	C003-03T
130	C003-04T	.00508	-.00733	.00082	.02312	41.483	.02037	-.00007	.01628	1.2080	.00550	C003-04T
131	C003-05T	.00184	.01027	.00106	.02000	33.440	.01381	.00021	.01009	1.2078	.00547	C003-05T
132	C003-06T	.00209	-.01256	.00092	.02056	33.661	.01421	.00024	.01060	1.2222	.00505	C003-06T
133	C003-11T	.00138	.01556	.00096	.00303	3.4873	.00015	.01602	-.00002	.50616	.00501	C003-11T
134	C003-12T	.00128	-.00076	.00098	.00364	3.8534	.00010	.01567	-.00021	.51188	.00495	C003-12T
135	Blank	.00008	-.00209	.00069	.00168	-.00501	-.00002	.00018	-.00003	.10484	-.00213	Blank
136	CCV12	1.4371*	2.7233*	4.8301*	.15591*	4.0865*	-.02131*	-.17048*	-.78757*	-59.242*	-.51838*	CCV12
137	CCB12	.00013	-.00082	.00087	.00030	.00316	.00035	.00020	.00019	.03900	-.00064	CCB12
138	C003-13T	.00136	.40098	.00066	.00508	11.892	.00180	.00102	.00087	.41183	.00213	C003-13T
139	C003-14T	.00081	-.00363	.00049	.00511	11.538	-.00001	.00120	.00013	.36169	.00133	C003-14T
140	C003-21T	.00103	.00996	.00067	.00154	1.9118	.00042	.00149	.00292	.16575	-.00024	C003-21T
141	C003-22T	.00106	.23257	.00060	.00530	12.042	.00123	.00099	.00068	.37654	.00165	C003-22T
142	C003-23T	.00065	-.00425	.00056	.00451	11.543	.00004	.00103	.00018	.34559	.00099	C003-23T
143	Blank	.00012	.00571	.00057	.00068	.02080	.00016	.00033	.00015	.07475	-.00045	Blank
144	CCV13	1.6069*	-3.6047*	.18559*	-.51394*	.90761*	-.02751*	-.50659*	.06278*	-34.349*	-.58115*	CCV13
145	CCB13	.00038	.00190	.00114	.00127	-.00407	.00036	.00027	.00011	.02629	.00052	CCB13
146	ZZZZ	.57016	5.2971	9.3767	.00262	46.509	.49606	.50906	.47691	50.917	.53852	ZZZZ
147	CCV14	2.6860	24.046	2.4204	.55019*	54.294	2.3189	2.5417	2.5410	60.580	1.0553	CCV14
148	CCB14	.00044	.00126	.00092	.00092	.01203	.00037	.00128*	.00028	.06311	-.00039	CCB14
149	C431-04A	.55788	5.2955	9.5052	.00254	45.931	.49091	.50792	.47873	50.337	.53322	C431-04A
150	C431-04I	.00228	.16680	9.6519	.00168	.46260	.00831	.00025	.00050	.13983	.00011	C431-04I
151	C431-04J	.00042	.03200	1.8526	.00125	.08321	.00157	.00015	.00001	.04901	-.00092	C431-04J
152	C431-04G	.00697	.15806	8.3423	.00121	.86635	.01138	.00362	.00462	.54178	.00379	C431-04G
153	C431-04H	.00759	.23088	12.319	.00148	.90980	.01231	.00346	.00504	.55908	.00410	C431-04H
154	C431-07I	.07874	.42957	12.579	.00159	.47300	.01832	-.00015	.01016	.06987	.00078	C431-07I
155	C431-08	2.2278	12.439	.40928	.01181	13.038	.10479	.00391	.02926	2.4698	.00463	C431-08
156	C431-09I	.00543	.27600	12.366	.00071	.42440	.00749	-.00020	.00054	.06862	-.00008	C431-09I
157	C444-12	.01721	1.4513	.02397	.00243	.23582	.01395	.00068	.00646	.45471	.00043	C444-12
158	Blank	-.00008	.00243	.00078	.00039	-.00133	.00001	.00012	.00002	.00822	-.00172	Blank
159	CCV15	2.5810	23.949	2.4215	.54356	54.454	2.3039	2.5205	2.5228	60.899	1.0272	CCV15
160	CCB15	.00087	.00858	.00146	.00076	.01634	.00085	.00144*	.00052	.06791	.00038	CCB15
161	IPC026SB	.00055	.00839	.00050	.00073	.01054	.00049	.00053	.00037	.04746	.00013	IPC026SB
162	IPC026SL	.52149	4.9566	.49807	.00080*	45.047	.46722	.53297	.46832	49.416	.48809	IPC026SL
163	IPC026SC	.53051	4.9989	.50148	.00126*	45.366	.47482	.53992	.47312	49.935	.49631	IPC026SC
164	C089-02A	.62200	193.96	.77989	.04253	51.292	7.0006	.53549	.61902	56.166	.49659	C089-02A
165	C089-02	.08610	197.02	.29554	.04189	6.8493	6.8145	.00767	.14577	6.5097	.00307	C089-02
166	C089-02J	.01762	42.296	.06208	.00879	1.4596	1.4388	.00154	.02912	1.3266	-.00055	C089-02J
167	C089-02M	.62281	201.26	.74008	.06940	54.399	6.6621	.52789	.58598	58.235	.48335	C089-02M
168	C089-02S	.61667	195.11	.77090	.06987	55.636	5.9977	.51234	.59751	58.730	.48071	C089-02S

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
169	C089-01	.06706	127.43	.19663	.03988	6.9446	4.7453	.00400	.10414	7.0024	.00210	C089-01
170	Blank	.00023	.11394	.00112	.00057	.01642	.00456	.00030	.00008	.03863	-.00122	Blank
171	CCV16	2.6589	24.670	2.4005	.54915	56.384	2.3482	2.5083	2.5156	60.952	1.0498	CCV16
172	CCB16	.00080	.00832	.00152	.00057	.02177	.00078	.00164*	.00047	.06815	-.00019	CCB16
173	C089-03	.06910	217.95	.77627	.04250	7.1344	4.0512	.01158	.11788	9.7699	.00483	C089-03
174	C089-04	.06551	191.08	1.5628	.04390	7.6212	3.4233	.00932	.13248	9.4301	.00468	C089-04
175	C089-05	.11082	199.96	8.2913	.04164	9.3720	4.3254	.00721	.18237	8.2555	.00370	C089-05
176	C089-06	.07880	139.86	2.6445	.04298	7.5078	3.9059	.00546	.12625	7.6163	.00279	C089-06
177	C089-07	.12879	156.12	.33200	.03796	9.7278	4.2920	.00486	.09803	5.9154	.00548	C089-07
178	C089-08	.10606	240.72	.35297	.04198	12.533	7.2962	.00775	.11747	5.1002	.00726	C089-08
179	C089-09	.15811	133.31	.46969	.03847	10.935	7.0934	.00376	.11060	5.5524	.00718	C089-09
180	C089-10	.07469	94.744	.20189	.02793	6.0386	3.3362	.00256	.06210	3.5707	.00675	C089-10
181	C089-11	.09322	91.424	.39114	.02500	5.7607	2.5739	.00373	.05496	4.9199	.00432	C089-11
182	Blank	.00023	.06466	.00111	.00039	.00793	.00196	.00007	-.00005	.00588	-.00047	Blank
183	CCV17	2.5896	24.101	2.4016	.53877	54.661	2.2688	2.4343	2.4930	59.617	1.0224	CCV17
184	CCB17	.00075	.00653	.00142	.00062	.00886	.00047	.00132*	.00024	.06811	.00095	CCB17
185	C089-12	.11893	162.52	.58887	.02873	5.8685	6.4411	.00761	.07372	5.7310	.00649	C089-12
186	C089-13	.08386	173.43	.42028	.02599	4.9724	7.1799	.00836	.06474	4.4078	.00641	C089-13
187	Blank	.00020	.11776	.00087	.00092	.01168	.00783	.00012	.00014	.01448	-.00012	Blank
188	CCV18	2.5722	24.221	2.4047	.53603	54.654	2.2591	2.4516	2.4952	59.454	1.0265	CCV18
189	CCB18	.00069	.00150	.00062	.00048	.01241	.00049	.00125*	.00030	.04329	-.00079	CCB18

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00377	-.00012	-.00001	.00007	.00002	-.00015	.00052	Blank
2	S20									S20
3	S21									S21
4	S22							.14758		S22
5	S23							1.4721		S23
6	S24		1.0475							S24
7	S25		6.1163							S25
8	S26									S26
9	S27									S27
10	S28				.00600					S28
11	S29				.05653					S29
12	S30	.04073		.12253		.02668	.01589		.60793	S30
13	S31	.20045		.59728		.13044	.07847		5.9692	S31
14	ICV	.49486	61.843	.48544	2.3119	.47733	.48942	1.4470	2.5795	ICV
15	ICB	.00023	-.01775	.00009	.00197	.00062	.00000	.00062	.01036	ICB
16	MRLC1401	.01003	.96685	.01007	.01081	.00012	.00993	.01000	.02087	MRLC1401
17	MRLC1402	.01017	.46615	.01048	.01116	.00966	.01003	.01030	.01469*	MRLC1402
18	ICSA1	.00031	.11302	.00110	.00406	.00157	.00309	.00203	.00447	ICSA1
19	ICSAB1	1.0831	80.878	.49769	.86008	.97869	.97423	.48855	1.0459	ICSAB1
20	CCV1	.50359	62.487	.49537	2.3846	.50515	.49386	1.4833	2.6487	CCV1
21	CCB1	.00014	-.00644	.00009	.00125	-.00026	-.00021	.00026	.00531	CCB1
22	IPC024SB	.00015	.01660	.00030	.00001	.04203	.00005	.00054	.00325	IPC024SB
23	IPC024SL	.47655	49.974	.46657	.46420	.52513	.49386	.49480	.53329	IPC024SL
24	IPC024SC	.48038	50.816	.47317	.46786	.53088	.49756	.49638	.53730	IPC024SC
25	C089-06A	.48747	53.013	.57152	.45821	.54040	1.1171	.90899	15.656	C089-06A
26	C089-06	-.00055	.73297	.09070	.00000	.04459	.62605	.41535	15.429	C089-06
27	C089-06J	-.00008	.08536	.01853	-.00034	.00931	.12842	.08628	3.1471	C089-06J
28	C089-11	-.00069	.40352	.08724	-.00114	.04888	.89377	.32355	15.288	C089-11
29	C089-12	-.00065	.35357	.07769	-.00126	.04532	.81044	.32711	13.721	C089-12
30	C089-13	-.00092	.52987	.08085	.00015	.04620	.95515	.44043	11.273	C089-13
31	Blank	.00004	-.08841	.00010	.00040	.00028	.00100	.00034	.00637	Blank
32	CCV2	.50538	62.369	.49803	2.3613	.50583	.49403	1.4727	2.6304	CCV2
33	CCB2	.00002	-.04711	.00010	.00103	.00010	.00006	.00034	.00490	CCB2
34	C454-07	-.00019	.08398	.00059	-.00235	.04449	.00015	.00037	.02561	C454-07
35	C454-07M	.49876	51.622	.47579	.43725	.52825	.49558	.49203	.55767	C454-07M
36	C454-07S	.50616	52.547	.47938	.44698	.53233	.50181	.49738	.56198	C454-07S
37	Blank	.00017	.13705	.00016	.00004	.00043	-.00007	.00035	.00557	Blank
38	CCV3	.50388	62.843	.49858	2.3493	.50428	.49291	1.4762	2.6351	CCV3
39	CCB3	.00011	.04786	.00019	.00050	.00003	-.00027	.00038	.00472	CCB3
40	IPC023WB	-.00013	-.00438	.00013	.00035	.00012	-.00044	.00008	.00239	IPC023WB
41	IPC023WL	.51641	51.746	.48166	.49915	.48770	.50797	.50604	.53075	IPC023WL
42	IPC023WC	.51327	51.193	.47847	.50294	.47653	.50234	.49782	.52428	IPC023WC
43	TXC003SB	.00015	355.10*	.00160	-.00088	.00132	.00028	.00033	.00748	TXC003SB
44	C429-01A	.54289	405.79	.56291	.48082	.48065	.51226	.51515	11.042	C429-01A
45	C429-01	-.00017	362.34	.07524	-.00194	.00176	.00140	.00030	10.866	C429-01
46	C429-01J	-.00005	74.062	.01511	-.00063	.00012	.00036	.00014	2.1833	C429-01J
47	C429-01M	.55365	404.03	.55877	.46426	.48418	.51087	.50849	10.960	C429-01M
48	C429-01S	.54625	406.62	.55656	.45876	.48157	.50618	.50247	11.069	C429-01S
49	Blank	-.00003	.26929	.00005	-.00062	-.00011	-.00010	.00018	.00272	Blank
50	CCV4	.51439	63.662	.50941	2.3725	.49790	.49787	1.4754	2.6147	CCV4
51	CCB4	.00010	.07261	.00015	.00084	-.00013	.00000	.00039	.00559	CCB4
52	C429-02	-.00008	311.85	.08487	-.00139	.00124	.00041	.00055	2.6901	C429-02
53	C429-03	.00101	301.85	.04298	-.00211	.00122	.00004	.00020	.73934	C429-03
54	C429-04	-.00014	319.13	.03269	-.00167	.00143	.00000	.00023	4.4157	C429-04

55	C429-05	-.00020	367.25	1.6545	-.00108	.00087	.00099	-.00021	.12037	C429-05
56	C429-06	-.00002	315.67	.04561	-.00095	.00073	-.00002	.00020	1.0555	C429-06
57	C415-01	-.00011	328.96	.02228	-.00149	.00149	.00131	.00023	.58617	C415-01
58	C415-02	-.00001	324.31	.02424	-.00134	.00114	.00052	.00025	.36561	C415-02
59	C415-03	-.00017	341.71	1.6247	-.00132	.00086	.00186	.00050	.24168	C415-03
60	C415-04	-.00034	338.37	1.5800	-.00166	.00151	.00183	.00126	.18080	C415-04
61	Blank	-.00006	.30642	.00050	-.00051	.00003	.00001	.00017	.00535	Blank
62	CCV5	.50617	62.809	.50730	2.2916	.50460	.49075	1.4443	2.5670	CCV5
63	CCB5	.00003	.12439*	.00035	.00073	.00065	.00006	.00039	.00462	CCB5
64	C415-05	-.00011	323.46	.01325	-.00183	.00151	.00064	.00021	.32896	C415-05
65	C415-06	-.00043	342.50	1.6488	-.00186	.00113	.00201	.00063	.19735	C415-06
66	C415-07	-.00034	339.76	1.5837	-.00147	.00147	.00187	.00116	.26922	C415-07
67	B526-01	-.00013	342.12	.79104	-.00159	.00232	.00345	.00028	4.6274	B526-01
68	Blank	-.00015	.54464	.00082	.00013	.00033	-.00022	.00015	.00219	Blank
69	CCV6	.50270	63.012	.50600	2.2475*	.50573	.49182	1.4432	2.5538	CCV6
70	CCB6	-.00015	.10095*	.00018	.00071	.00018	-.00015	.00040	.00446	CCB6
71	IPC022W8	-.00006	.06487	.00017	.00000	.00023	-.00013	.00031	.00414	IPC022W8
72	IPC022WL	.51311	52.072	.49088	.48473	.49019	.50389	.49100	.51502	IPC022WL
73	IPC022WC	.51934	52.043	.48060	.48990	.47143	.49350	.49568	.51499	IPC022WC
74	C113-01A	.51042	65.424	.52892	.50135	.47630	.50641	.50453	1.0281	C113-01A
75	C113-01	.00012	13.258	.04486	-.00024	.00070	.00381	.00119	.50063	C113-01
76	C113-01J	-.00008	2.6936	.00932	-.00048	.00041	.00056	.00032	.10275	C113-01J
77	C113-01M	.52714	64.981	.53871	.49752	.48326	.51581	.50156	1.0256	C113-01M
78	C113-01S	.52966	65.975	.53780	.49656	.48066	.51447	.50387	1.0361	C113-01S
79	C064-01	.00008	29.473	1.3159	-.00002	.00929	5.2324	.19751	1.0580	C064-01
80	Blank	.00017	-.03260	.00030	-.00011	.00008	.00114	.00021	.00091	Blank
81	CCV7	.51026	63.168	.51265	2.3220	.49287	.49164	1.4488	2.5561	CCV7
82	CCB7	.00009	-.00605	.00025	.00077	.00032	.00018	.00050	.01020	CCB7
83	WTC001SB	-.00002	2363.4*	.00151	-.01899	.01102	.00041	.00050	.00423	WTC001SB
84	WTC001SQ	-.00009	540.68*	.00027	-.00307	.00168	.00014	.00028	.00158	WTC001SQ
85	B526-01A	.53623	609.80	1.0453	.44506	.58355	.55893	.51892	2.4371	B526-01A
86	B526-01T	.00031	571.41	.58119	-.00102	.10245	.06696	.01457	1.9406	B526-01T
87	B526-01J	-.00003	114.48	.11314	-.00022	.01930	.01339	.00288	.36130	B526-01J
88	B526-01G	.11340	576.61	.67078	.09279	.19729	.16872	.11846	2.0069	B526-01G
89	B526-01H	.11418	609.72	.71422	.09319	.20314	.17369	.11888	2.1475	B526-01H
90	Blank	.00005	.64114	.00023	-.00029	.00030	.00015	.00019	.00152	Blank
91	Blank	-.00006	.28420	.00003	.00028	.00025	-.00025	.00001	.00131	Blank
92	CCV8	.52402	64.250	.51799	2.3748	.48916	.49958	1.4645	2.5719	CCV8
93	CCB8	.00008	.23562*	.00013	-.00019	.00037	.00000	.00029	.00462	CCB8
94	IPC025SB	-.00017	.28431	.00039	-.00056	.04085	.00041	.00038	.00533	IPC025SB
95	IPC025SL	.48946	51.044	.48209	.46066	.51117	.49431	.48992	.52044	IPC025SL
96	IPC025SC	.49287	51.928	.48945	.46525	.52279	.50178	.49409	.52821	IPC025SC
97	C431-04A	.51341	53.952	.60614	.48469	.50195	1.2250	.50976	68.416*	C431-04A
98	C431-04T	.00182	.55757	.11623	-.00055	.02395	.73185	.00578	66.151*	C431-04T
99	C431-04J	.00033	.14985	.02292	.00013	.00495	.14265	.00132	14.972	C431-04J
100	C431-04M	.05101	5.7295	.11933	.04659	.07403	.78649	.05318	58.926*	C431-04M
101	C431-04S	.05158	5.6434	.13727	.04704	.07357	.89781	.05301	74.351*	C431-04S
102	C431-01T	.00212	.53175	.06291	.00185	.04112	1.1080	.06995	44.778*	C431-01T
103	Blank	.00016	.00366	.00006	-.00032	.00017	.00046	.00004	.01790	Blank
104	CCV9	.52001	63.846	.51299	2.3768	.48320	.49436	1.4641	2.5678	CCV9
105	CCB9	.00008	.07115	.00028	.00092	.00029	.00036	.00065	.01618*	CCB9
106	C431-02T	.00057	1.3338	.05606	.00181	.02606	.30777	.01476	24.135	C431-02T
107	C431-03T	.00248	1.1886	.11347	-.00002	.05470	.63631	.01604	66.600*	C431-03T
108	C431-05T	.00407	4.3439	.01776	-.00009	2.9299	.63024	.00506	13.804	C431-05T
109	C431-06T	.00218	1.1235	.08421	.00020	.03754	.96654	.02271	66.022*	C431-06T
110	C431-07T	.00305	.46107	.08608	-.00001	.03853	.69403	.01429	83.241*	C431-07T
111	C431-08T	.00416	.13203	.01207	-.00023	.01780	.50975	.00662	18.918	C431-08T

112	C431-09T	.00278	.39267	.10236	-.00005	.03797	.65202	.00819	75.246*	C431-09T
113	C431-10T	.00063	.75376	.02173	-.00057	.04273	.18089	.00656	15.004	C431-10T
114	C431-11T	.00189	1.2031	.09006	.00008	.03234	.66232	.01690	64.094*	C431-11T
115	Blank	.00003	-.05136	.00007	-.00032	.00050	.00013	.00015	.01629	Blank
116	CCV10	.51763	63.501	.51125	2.3721	.48683	.49178	1.4575	2.5809	CCV10
117	CCB10	.00004	-.00317	.00025	.00078	.00026	-.00008	.00026	.01121	CCB10
118	C431-12T	.00074	.79554	.03381	-.00010	.03386	.82504	.01017	24.428	C431-12T
119	C443-02T	.00018	.00168	.17988	.00182	.00570	.02186	.00440	.74800	C443-02T
120	C444-01T	-.00006	-.04472	.00109	-.00014	.00457	.04796	.00256	.59774	C444-01T
121	C444-12T	.00015	.01360	.00107	-.00059	.00362	.02043	.00029	.02210	C444-12T
122	C106-02	-.00006	44.631	.86742	-.00059	.00010	.00061	.00619	.05904	C106-02
123	C106-03	-.00017	44.293	.85464	-.00001	.00022	.00097	.00531	.05419	C106-03
124	Blank	.00004	-.02487	.00016	-.00039	.00012	-.00002	.00017	.00450	Blank
125	CCV11	.51830	63.887	.51534	2.3391	.48345	.49431	1.4563	2.5657	CCV11
126	CCB11	.00000	.01432	.00045	.00064	-.00002	.00029	.00049	.00823	CCB11
127	C003-01T	.00021	217.66	.05094	.00035	.00072	.00502	.00105	.00754	C003-01T
128	C003-02T	.00012	222.50	.04971	-.00032	.00079	-.00007	.00073	.00645	C003-02T
129	C003-03T	-.00012	279.20	.09633	.00035	-.00001	.00468	.00044	.01326	C003-03T
130	C003-04T	-.00002	277.76	.09395	-.00020	.00076	-.00005	-.00016	.01285	C003-04T
131	C003-05T	-.00015	249.31	.08096	.00005	-.00005	.00075	.00031	.00553	C003-05T
132	C003-06T	-.00010	252.19	.08353	-.00066	.00046	-.00033	.00024	.00531	C003-06T
133	C003-11T	-.00021	450.58	.01137	.00055	.00043	.00014	.01227	.00142	C003-11T
134	C003-12T	-.00030	438.99	.01321	-.00086	.00074	.00012	.01016	.00187	C003-12T
135	Blank	-.00009	.34053	.00007	.00022	-.00017	-.00041	.00005	.00186	Blank
136	CCV12	.68304*	345.55*	-.33493*	-1.6307*	-.25209*	.60569*	-.63607*	6.1909*	CCV12
137	CCB12	-.00004	.05795	.00011	-.00007	-.00005	.00008	.00019	.00810	CCB12
138	C003-13T	-.00007	196.75	.02712	-.00004	.00044	.01144	.00273	.00410	C003-13T
139	C003-14T	-.00007	194.58	.02320	-.00026	.00040	-.00013	.00160	.00265	C003-14T
140	C003-21T	-.00025	80.309	.01603	-.00005	.00029	-.00018	.00425	.00216	C003-21T
141	C003-22T	.00003	190.87	.02586	-.00051	.00013	.00747	.00223	.00295	C003-22T
142	C003-23T	-.00017	193.80	.02302	-.00013	.00048	.00002	.00139	.00162	C003-23T
143	Blank	.00001	.36270	.00010	-.00138	.04156	-.00056	.00021	.00245	Blank
144	CCV13	.82239*	48.609*	-.18610*	-2.0611*	1.0844*	.07288*	-1.0312*	.60725*	CCV13
145	CCB13	-.00005	-.02181	.00008	-.00075	.00047	-.00029	.00018	.00720	CCB13
146	ZZZZ	.52044	53.788	.51369	.50633	.46885	.58002	.50581	8.4688	ZZZZ
147	CCV14	.52152	64.026	.51851	2.3511	.48508	.49329	1.4527	2.5419	CCV14
148	CCB14	.00014	.00259	.00008	.00015	.00007	-.00008	.00028	.00045	CCB14
149	C431-04A	.51095	53.087	.50638	.50150	.47278	.57419	.50527	8.5613	C431-04A
150	C431-04I	.00015	.03517	.01242	-.00006	.00262	.07692	.00079	8.1171	C431-04I
151	C431-04J	-.00017	-.03592	.00236	.00011	.00046	.01472	.00023	1.5797	C431-04J
152	C431-04G	.00490	.50188	.01191	.00460	.00727	.07780	.00533	6.5973	C431-04G
153	C431-04H	.00506	.49455	.01394	.00459	.00738	.08852	.00552	9.1074	C431-04H
154	C431-07I	.00007	-.01829	.00852	.00007	.00388	.06967	.00158	10.757	C431-07I
155	C431-08	.04468	1.6417	.12263	-.00228	.18814	5.2993	.06500	128.29*	C431-08
156	C431-09I	.00026	-.04371	.01033	-.00056	.00427	.07036	.00096	9.5512	C431-09I
157	C444-12	.00146	.59781	.00874	-.00154	.03813	.20690	.00161	.74834	C444-12
158	Blank	-.00014	-.08758	.00001	-.00048	.00012	.00006	.00013	.00423	Blank
159	CCV15	.51066	63.987	.51466	2.2932	.49084	.48913	1.4419	2.5679	CCV15
160	CCB15	.00007	-.03702	.00023	.00032	.00058	.00034	.00044	.00822	CCB15
161	IPC026SB	.00003	-.03948	.00021	-.00103	.04179	-.00046	.00028	.00382	IPC026SB
162	IPC026SL	.49409	52.051	.48928	.45892	.52557	.50044	.49590	.53075	IPC026SL
163	IPC026SC	.50095	52.625	.49815	.46574	.53236	.50647	.49970	.53810	IPC026SC
164	C089-02A	.48629	52.618	.60258	.44192	.52611	.92484	.91250	1.7029	C089-02A
165	C089-02	-.00084	.26166	.11884	-.00076	.04822	.44542	.43553	1.2134	C089-02
166	C089-02J	-.00023	-.01422	.02444	-.00005	.01001	.09119	.09041	.24252	C089-02J
167	C089-02M	.50488	52.369	.64058	.44357	.53288	1.2262	.85769	1.8108	C089-02M
168	C089-02S	.50572	53.045	.63240	.44389	.52360	1.2543	.90642	1.9550	C089-02S

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
169	C089-01	-.00054	.21605	.11038	-.00148	.04658	.42964	.28403	1.0476	C089-01
170	Blank	.00003	-.07622	.00021	.00014	-.00029	.00031	.00051	.00216	Blank
171	CCV16	.52533	64.312	.51206	2.4108	.48234	.49751	1.4738	2.5938	CCV16
172	CCB16	.00015	-.04820	.00022	.00103	.00016	-.00021	.00034	.00352	CCB16
173	C089-03	-.00041	.31047	.09391	.00125	.04677	1.4530	.36416	2.5880	C089-03
174	C089-04	-.00053	.28123	.12783	-.00018	.04590	1.1630	.30477	6.3626	C089-04
175	C089-05	-.00026	.20575	.08694	-.00006	.05174	.79567	.40409	40.924*	C089-05
176	C089-06	-.00040	.19517	.08589	-.00120	.04823	.81070	.26519	12.802	C089-06
177	C089-07	-.00051	.18498	.10472	-.00115	.04669	1.2670	.29252	14.018	C089-07
178	C089-08	-.00091	.17314	.10114	.00014	.04802	1.4205	.41884	4.8144	C089-08
179	C089-09	-.00079	.20210	.10444	-.00150	.04666	1.0309	.32440	15.124	C089-09
180	C089-10	-.00053	.15996	.07862	-.00091	.04476	.74441	.24357	4.7523	C089-10
181	C089-11	-.00050	.13203	.06746	-.00092	.04547	.84116	.22055	10.163	C089-11
182	Blank	-.00003	-.11944	.00008	.00025	.00022	.00040	.00014	.00555	Blank
183	CCV17	.51241	63.193	.50823	2.3037	.46709	.49229	1.4242	2.5094	CCV17
184	CCB17	.00028	-.08249	.00009	.00001	.00048	.00020	.00044	.00112	CCB17
185	C089-12	-.00056	.17554	.08671	-.00125	.04674	1.0283	.38780	14.416	C089-12
186	C089-13	-.00078	.15732	.06705	-.00078	.04603	.91175	.36264	8.4844	C089-13
187	Blank	.00005	-.11866	.00017	.00008	.00024	.00070	.00040	.00614	Blank
188	CCV18	.51167	63.001	.50470	2.3251	.47338	.49146	1.4297	2.5186	CCV18
189	CCB18	-.00003	-.08004	.00019	.00032	.00008	-.00035	.00039	.00115	CCB18

ID8C014 Section 3 of 3

EMAX LABORATORIES, INC.

FileID: IPC026S

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPC026S01	IPC026SB	1	g	3/14/11 10:08	100	1	100	1	
11IPC026S02	IPC026SL	1	g	3/14/11 10:08	100	1	100	1	
11IPC026S03	IPC026SC	1	g	3/14/11 10:08	100	1	100	1	
11IPC026S04	C089-01	1.03	g	3/14/11 10:11	100	1	100	0.971	✓
11IPC026S05	C089-02	1.15	g	3/14/11 10:13	100	1	100	0.87	✓
11IPC026S06	C089-02M	1.19	g	3/14/11 10:13	100	1	100	0.84	✓
11IPC026S07	C089-02S	1.22	g	3/14/11 10:14	100	1	100	0.82	✓
11IPC026S08	C089-03	1.17	g	3/14/11 10:15	100	1	100	0.855	✓
11IPC026S09	C089-04	1.14	g	3/14/11 10:17	100	1	100	0.877	✓
11IPC026S10	C089-05	1.17	g	3/14/11 10:19	100	1	100	0.855	✓
11IPC026S11	C089-06	1.07	g	3/14/11 10:21	100	1	100	0.935	✓
11IPC026S12	C089-07	1.38	g	3/14/11 10:22	100	1	100	0.725	✓
11IPC026S13	C089-08	1.34	g	3/14/11 10:24	100	1	100	0.746	.
11IPC026S14	C089-09	1.32	g	3/14/11 10:26	100	1	100	0.758	✓
11IPC026S15	C089-10	1.01	g	3/14/11 10:27	100	1	100	0.99	✓
11IPC026S16	C089-11	1.03	g	3/14/11 10:29	100	1	100	0.971	✓
11IPC026S17	C089-12	1.27	g	3/14/11 10:30	100	1	100	0.787	✓
11IPC026S18	C089-13	1.03	g	3/14/11 10:32	100	1	100	0.971	✓

3/14/11

HF

Balance ID: 10304418. Calibration check was verified prior to use.

Vd=digestate volume

AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 3/14/11 11:10

Prepared By: HF

☑ Digestion Ended @ 3/14/11 13:10

Checked By: TH

Comments:

Date 3/14/11

7058

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C089

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of four (4) soil samples were received on 03/09/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC024SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Samples were oven-dried and passed through sieve # 60 prior to sample prep.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C089
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC024SB	1	NA	03/14/1112:32	03/11/1114:30	ID8C014022	ID8C014020	IPC024S	Method Blank
LCS1S	IPC024SL	1	NA	03/14/1112:35	03/11/1114:30	ID8C014023	ID8C014020	IPC024S	Lab Control Sample (LCS)
LCD1S	IPC024SC	1	NA	03/14/1112:37	03/11/1114:30	ID8C014024	ID8C014020	IPC024S	LCS Duplicate
CB215-09-02AS	C089-06A	0.952	NA	03/14/1112:40	03/11/1114:30	ID8C014025	ID8C014020	IPC024S	Analytical Spike Sample
CB215-09-02	C089-06	0.952	NA	03/14/1112:42	03/11/1114:30	ID8C014026	ID8C014020	IPC024S	Field Sample
CB215-09-02DL	C089-06J	4.76	NA	03/14/1112:45	03/11/1114:30	ID8C014027	ID8C014020	IPC024S	Diluted Sample
CP091-16-01	C089-11	0.893	NA	03/14/1112:48	03/11/1114:30	ID8C014028	ID8C014020	IPC024S	Field Sample
CP091-16-01FD	C089-12	0.952	NA	03/14/1112:50	03/11/1114:30	ID8C014029	ID8C014020	IPC024S	Field Sample
CP091-16-02	C089-13	0.926	NA	03/14/1112:53	03/11/1114:30	ID8C014030	ID8C014020	IPC024S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected	: 03/07/11 14:15
Project	: TAR CREEK OU4	Date Received	: 03/09/11
SDG NO.	: 11C089	Date Extracted	: 03/11/11 14:30
Sample ID	: CB215-09-02	Date Analyzed	: 03/14/11 12:42
Lab Samp ID	: C089-06	Dilution Factor	: 0.952
Lab File ID	: ID8C014026	Matrix	: SOIL
Ext Btch ID	: IPC024S	% Moisture	: NA
Calib. Ref.	: ID8C014020	Instrument ID	: EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	256	0.952	0.286

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 14:15
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/11/11 14:30
Sample ID:	CP091-16-01	Date Analyzed:	03/14/11 12:48
Lab Samp ID:	C089-11	Dilution Factor:	0.893
Lab File ID:	ID8C014028	Matrix :	SOIL
Ext Btch ID:	IPC024S	% Moisture :	NA
Calib. Ref.:	ID8C014020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	55.3	0.893	0.268

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 14:15
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/11/11 14:30
Sample ID:	CP091-16-01FD	Date Analyzed:	03/14/11 12:50
Lab Samp ID:	C089-12	Dilution Factor:	0.952
Lab File ID:	ID8C014029	Matrix :	SOIL
Ext Btch ID:	IPC024S	% Moisture :	NA
Calib. Ref.:	ID8C014020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	51.9	0.952	0.286

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 14:20
Project	: TAR CREEK OU4	Date Received:	03/09/11
SDG NO.	: 11C089	Date Extracted:	03/11/11 14:30
Sample ID:	CP091-16-02	Date Analyzed:	03/14/11 12:53
Lab Samp ID:	C089-13	Dilution Factor:	0.926
Lab File ID:	I08C014030	Matrix :	SOIL
Ext Btch ID:	IPC024S	% Moisture :	NA
Calib. Ref.:	I08C014020	Instrument ID :	EMAXTI08

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	45.8	0.926	0.278

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/11/11
SDG NO.	: 11C089	Date Extracted:	03/11/11 14:30
Sample ID:	MBLK1S	Date Analyzed:	03/14/11 12:32
Lab Samp ID:	IPC024SB	Dilution Factor:	1
Lab File ID:	ID8C014022	Matrix :	SOIL
Ext Btch ID:	IPC024S	% Moisture :	NA
Calib. Ref.:	ID8C014020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC024SB	IPC024SL	IPC024SC		
LAB FILE ID:	ID8C014022	ID8C014023	ID8C014024		
DATIME EXTRCTD:	03/11/1114:30	03/11/1114:30	03/11/1114:30	DATE COLLECTED:	NA
DATIME ANALYZD:	03/14/1112:32	03/14/1112:35	03/14/1112:37	DATE RECEIVED:	03/11/11
PREP. BATCH:	IPC024S	IPC024S	IPC024S		
CALIB. REF:	ID8C014020	ID8C014020	ID8C014020		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	48.9	98	50	49.1	98	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.952	4.76		
SAMPLE ID:	CB215-09-02	CB215-09-02DL		
EMAX SAMP ID:	C089-06	C089-06J		
LAB FILE ID:	ID8C014026	ID8C014027		
DATE EXTRACTED:	03/11/1114:30	03/11/1114:30	DATE COLLECTED:	03/07/11 14:15
DATE ANALYZED:	03/14/1112:42	03/14/1112:45	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC024S	IPC024S		
CALIB. REF:	ID8C014020	ID8C014020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	256	265	3	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C089
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.952	0.952		
SAMPLE ID:	CB215-09-02			
CONTROL NO.:	C089-06	C089-06A		
LAB FILE ID:	ID8C014026	ID8C014025		
DATIME EXTRCTD:	03/11/1114:30	03/11/1114:30	DATE COLLECTED:	03/07/11 14:15
DATIME ANALYZD:	03/14/1112:42	03/14/1112:40	DATE RECEIVED:	03/09/11
PREP. BATCH:	IPC024S	IPC024S		
CALIB. REF:	ID8C014020	ID8C014020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	256	47.6	294	79	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/14/11 11:32
End Date: 3/14/11 17:22

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Book #: AD8-018
Instrument No.: D8
Analytical Batch: 108C014
Analytical Sequence: S-11C6010 (V15)
Method File: 11C6010 (V15)
Database: Emax 13

Comments:

- C454-07 - Pb "J" flag. Li>LOR Li interfers w/ Pb. See printout.
- B526-01 STLC: yellow sample. ∴ sample diluted 5X prior to analysis.
- C431-04T, 07T, 09T @ 10X Pb>LOR
- C431-08~~X~~T: needs rerun for Pb confirmation. TH 3/14/11
- C444-12T ~~TH 3/14/11~~ overdiluted @ 10X.
- CCB9 Pb>3XIDL, >MDL. ~~However~~ TH 3/14/11 however, C431 samples detected >10X blank conc. level EXCEPT C431-08T.

	STANDARDS ID		STANDARDS ID
S0	SM1B14-44-09	S30	SM1B14-4201
S1	NA	S31	4202
S2		ICV	2701
S3		CCV	3805
S4		ICSA	2002
S5		ICSAB	1803
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B14-41-09
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-3102		
S21	3702		
S22	3703		
S23	3704		
S24	4001		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Analyzed By: TH
Date: 3/14/11

7070

SEQUENCE FILE : ID8C014

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C014001	Blank	11:32	03/14/11	1.000
ID8C014002	S20	11:35	03/14/11	1.000
ID8C014003	S21	11:37	03/14/11	1.000
ID8C014004	S22	11:40	03/14/11	1.000
ID8C014005	S23	11:43	03/14/11	1.000
ID8C014006	S24	11:46	03/14/11	1.000
ID8C014007	S25	11:49	03/14/11	1.000
ID8C014008	S26	11:52	03/14/11	1.000
ID8C014009	S27	11:55	03/14/11	1.000
ID8C014010	S28	11:58	03/14/11	1.000
ID8C014011	S29	12:01	03/14/11	1.000
ID8C014012	S30	12:04	03/14/11	1.000
ID8C014013	S31	12:06	03/14/11	1.000
ID8C014014	ICV	12:09	03/14/11	1.000
ID8C014015	ICB	12:12	03/14/11	1.000
ID8C014016	MRLC1401	12:15	03/14/11	1.000
ID8C014017	MRLC1402	12:18	03/14/11	1.000
ID8C014018	ICSA1	12:20	03/14/11	1.000
ID8C014019	ICSAB1	12:23	03/14/11	1.000
ID8C014020	CCV1	12:26	03/14/11	1.000
ID8C014021	CCB1	12:29	03/14/11	1.000
ID8C014022	IPC024SB	12:32	03/14/11	1.000
ID8C014023	IPC024SL	12:35	03/14/11	1.000
ID8C014024	IPC024SC	12:37	03/14/11	1.000
ID8C014025	C0B9-06A	12:40	03/14/11	1.000
ID8C014026	C089-06	12:42	03/14/11	1.000
ID8C014027	C0B9-06J	12:45	03/14/11	5.000
ID8C014028	C089-11	12:48	03/14/11	1.000
ID8C014029	C089-12	12:50	03/14/11	1.000
ID8C014030	C089-13	12:53	03/14/11	1.000
ID8C014031	Blank	12:56	03/14/11	1.000
ID8C014032	CCV2	12:58	03/14/11	1.000
ID8C014033	CCB2	13:01	03/14/11	1.000
ID8C014034	C454-07	13:04	03/14/11	1.000
ID8C014035	C454-07M	13:07	03/14/11	1.000
ID8C014036	C454-07S	13:10	03/14/11	1.000
ID8C014037	Blank	13:12	03/14/11	1.000
ID8C014038	CCV3	13:15	03/14/11	1.000
ID8C014039	CCB3	13:18	03/14/11	1.000
ID8C014040	IPC023WB	13:21	03/14/11	1.000
ID8C014041	IPC023WL	13:23	03/14/11	1.000
ID8C014042	IPC023WC	13:26	03/14/11	1.000
ID8C014043	TXC003SB	13:29	03/14/11	1.000
ID8C014044	C429-01A	13:31	03/14/11	1.000
ID8C014045	C429-01	13:34	03/14/11	1.000
ID8C014046	C429-01J	13:37	03/14/11	5.000
ID8C014047	C429-01M	13:40	03/14/11	1.000
ID8C014048	C429-01S	13:43	03/14/11	1.000
ID8C014049	Blank	13:46	03/14/11	1.000
ID8C014050	CCV4	13:49	03/14/11	1.000
ID8C014051	CCB4	13:51	03/14/11	1.000
ID8C014052	C429-02	13:54	03/14/11	1.000
ID8C014053	C429-03	13:57	03/14/11	1.000
ID8C014054	C429-04	14:00	03/14/11	1.000

ID8C014055	C429-05	14:03	03/14/11	1.000
ID8C014056	C429-06	14:06	03/14/11	1.000
ID8C014057	C415-01	14:09	03/14/11	1.000
ID8C014058	C415-02	14:11	03/14/11	1.000
ID8C014059	C415-03	14:14	03/14/11	1.000
ID8C014060	C415-04	14:17	03/14/11	1.000
ID8C014061	Blank	14:20	03/14/11	1.000
ID8C014062	CCV5	14:23	03/14/11	1.000
ID8C014063	CCB5	14:26	03/14/11	1.000
ID8C014064	C415-05	14:29	03/14/11	1.000
ID8C014065	C415-06	14:32	03/14/11	1.000
ID8C014066	C415-07	14:35	03/14/11	1.000
ID8C014067	B526-01	14:38	03/14/11	1.000
ID8C014068	Blank	14:41	03/14/11	1.000
ID8C014069	CCV6	14:44	03/14/11	1.000
ID8C014070	CCB6	14:46	03/14/11	1.000
ID8C014071	IPC022WB	14:49	03/14/11	1.000
ID8C014072	IPC022WL	14:52	03/14/11	1.000
ID8C014073	IPC022WC	14:55	03/14/11	1.000
ID8C014074	C113-01A	14:57	03/14/11	1.000
ID8C014075	C113-01	15:00	03/14/11	1.000
ID8C014076	C113-01J	15:03	03/14/11	5.000
ID8C014077	C113-01M	15:05	03/14/11	1.000
ID8C014078	C113-01S	15:08	03/14/11	1.000
ID8C014079	C064-01	15:10	03/14/11	1.000
ID8C014080	Blank	15:13	03/14/11	1.000
ID8C014081	CCV7	15:16	03/14/11	1.000
ID8C014082	CCB7	15:19	03/14/11	1.000
ID8C014083	WTC001SB	15:22	03/14/11	1.000
ID8C014084	WTC001SQ	15:25	03/14/11	5.000
ID8C014085	B526-01A	15:28	03/14/11	5.000
ID8C014086	B526-01T	15:31	03/14/11	5.000
ID8C014087	B526-01J	15:33	03/14/11	25.00
ID8C014088	B526-01G	15:36	03/14/11	5.000
ID8C014089	B526-01H	15:39	03/14/11	5.000
ID8C014090	Blank	15:42	03/14/11	1.000
ID8C014091	Blank	15:45	03/14/11	1.000
ID8C014092	CCV8	15:47	03/14/11	1.000
ID8C014093	CCB8	15:50	03/14/11	1.000
ID8C014094	IPC025SB	15:53	03/14/11	1.000
ID8C014095	IPC025SL	15:56	03/14/11	1.000
ID8C014096	IPC025SC	15:58	03/14/11	1.000
ID8C014097	C431-04A	16:01	03/14/11	10.00
ID8C014098	C431-04T	16:04	03/14/11	10.00
ID8C014099	C431-04J	16:06	03/14/11	50.00
ID8C014100	C431-04M	16:09	03/14/11	10.00
ID8C014101	C431-04S	16:12	03/14/11	10.00
ID8C014102	C431-01T	16:14	03/14/11	10.00
ID8C014103	Blank	16:17	03/14/11	1.000
ID8C014104	CCV9	16:20	03/14/11	1.000
ID8C014105	CCB9	16:23	03/14/11	1.000
ID8C014106	C431-02T	16:26	03/14/11	10.00
ID8C014107	C431-03T	16:29	03/14/11	10.00
ID8C014108	C431-05T	16:31	03/14/11	10.00
ID8C014109	C431-06T	16:34	03/14/11	10.00
ID8C014110	C431-07T	16:37	03/14/11	10.00
ID8C014111	C431-08T	16:40	03/14/11	10.00

ID8C014112	C431-09T	16:43	03/14/11	10.00
ID8C014113	C431-10T	16:46	03/14/11	10.00
ID8C014114	C431-11T	16:48	03/14/11	10.00
ID8C014115	Blank	16:51	03/14/11	1.000
ID8C014116	CCV10	16:54	03/14/11	1.000
ID8C014117	CCB10	16:57	03/14/11	1.000
ID8C014118	C431-12T	17:00	03/14/11	10.00
ID8C014119	C443-02T	17:02	03/14/11	10.00
ID8C014120	C444-01T	17:05	03/14/11	10.00
ID8C014121	C444-12T	17:08	03/14/11	10.00
ID8C014122	C106-02	17:11	03/14/11	1.000
ID8C014123	C106-03	17:13	03/14/11	1.000
ID8C014124	Blank	17:16	03/14/11	1.000
ID8C014125	CCV11	17:19	03/14/11	1.000
ID8C014126	CCB11	17:22	03/14/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8C014 DATE : 03/14/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	104	95	101	97	100	97	98	101	97	91	98	100	95	103	94	92	95	97	97	99	99	103	97	92	95	98	96	103
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	95	----	----	----	91	----	----	91	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	100	103	105	105	98	109	95	95	95	93	105	94	94	110	94	91	100	98	103	104	108	108	100	86	98	97	98	105
CCV1	105	102	104	99	100	99	99	101	98	96	100	100	97	105	94	93	101	100	99	104	101	104	99	95	101	99	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	102	104	100	100	99	97	100	97	96	101	99	98	105	94	93	101	101	98	103	101	104	100	94	101	99	98	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	106	101	103	100	100	99	97	100	97	96	101	99	98	108	93	93	101	101	99	103	101	105	100	94	101	99	98	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC003SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	109	101	104	102	101	100	98	98	98	97	105	99	98	109	93	94	102	101	100	104	103	106	102	95	100	100	98	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C429-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	108	101	102	101	99	99	93	96	94	98	104	95	99	108	89*	91	104	102	99	104	101	105	101	92	101	98	96	103
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	101	101	101	99	99	91	96	94	98	104	95	98	108	89*	91	104	102	99	102	101	105	101	90	101	98	96	102
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C064-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	108	101	103	102	100	99	95	96	96	97	106	96	98	109	90	92	103	102	100	105	102	105	103	93	99	98	97	102
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTC001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTC001SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	109	101	105	103	102	102	98	98	99	98	108	97	97	110	93	95	102	102	101	106	105	107	104	95	98	100	98	103
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	109	100	104	102	102	101	99	98	99	97	106	97	96	109	93	95	101	101	100	104	104	106	103	95	97	99	98	103
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C431-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	108	100	104	101	101	100	98	98	99	96	104	97	97	108	92	94	101	101	100	104	104	106	102	95	97	98	97	103
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C443-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	108	100	103	103	101	101	97	97	99	97	107	97	97	109	92	94	101	101	101	105	104	106	103	94	97	99	97	103
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C014 (SOIL) DATE : 03/14/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	38.0	1.55	-.350	.830	.270	8.01	.770	165	.810	.440	.990	14.3	1.16	.250	10.6	.630	2.88	.980	93.0	-.660	.230	-17.7	.090	1.97	.620	.000	.620	10.4
MRLC1401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC1402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.94	-1.53	2.70	.000	47.9	-2.84	----	.160	-1.60	.980	----	1.05	5.00	----	1.41	-.680	.590	-11.6	3.12	.310	113	1.10	4.06	1.57	3.09	2.03	4.47
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	35.4	1.06	-1.71	.530	.190	7.44	.300	98.8	.420	.270	.430	50.4	.860	.170	13.9	.680	2.27	.440	83.2	.130	.140	-6.44	.090	1.25	-.260	-.210	.260	5.31
IPC024SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC024SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C089-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	20.5	1.44	-1.14	.670	.380	6.75	.210	86.7	.490	.110	.640	6.03	1.06	.310	15.6	.850	2.07	.510	63.1	.480	.020	-47.1	.100	1.03	.100	.060	.340	4.90
C454-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C454-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	22.9	1.19	-.380	.880	.490	8.26	.210	88.2	.400	.260	.760	5.76	1.22	9.07	9.85	.790	2.11	.360	142	.780	.110	47.9	.190	.500	.030	-.270	.380	4.72
IPC023WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC023WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC003SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	29.1	1.09	-1.64	.550	.310	7.03	.210	86.2	.450	.110	.770	5.98	.800	2.68	13.1	.520	1.84	.560	127	-.330	.100	72.6	.150	.840	-.130	.000	.390	5.59
C429-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C429-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C429-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	26.4	1.63	-1.23	.950	.580	6.19	.230	114	.360	.090	1.32	4.13	.500	1.82	17.0	1.05	1.57	.310	129	-.270	.030	124	.350	.730	.650	.060	.390	4.62
C415-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C415-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	23.3	1.06	-1.04	.590	.370	6.47	.210	82.4	.420	.150	.850	2.43	1.52	1.23	11.2	.780	1.53	.300	133	-.040	-.150	101	.180	.710	.180	-.150	.400	4.46
IPC022WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC022WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C113-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C064-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	26.8	1.38	.140	.970	.370	5.61	.270	226	.380	.180	.640	5.62	.900	1.12	13.8	.780	1.67	.490	110	-.220	.090	-6.05	.250	.770	.320	.180	.500	10.2
WTC001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTC001SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B526-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	22.1	1.26	-.930	.490	.210	5.04	.170	77.2	.280	.070	.580	4.07	.520	1.49	6.94	.460	1.58	.170	161	.030	.080	236	.130	-.190	.370	.000	.290	4.62
IPC025SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC025SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	46.1	1.54	-.330	1.55	.530	5.48	.560	251	1.09	.240	.990	8.51	7.60	.640	24.5	1.14	1.99	.730	90.5	-.310	.080	71.1	.280	.920	.290	.360	.650	16.2
C431-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-08T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C431-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C431-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	36.4	.920	-1.18	1.14	.390	5.61	.270	202	.740	.100	.910	6.39	2.78	.870	14.7	.890	1.82	.330	61.0	.030	.040	-3.17	.250	.780	.260	-.080	.260	11.2
C431-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C443-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C444-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C106-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	36.3	.890	-1.24	1.68	.900	5.95	.280	173	.780	.190	.830	8.83	1.77	.980	34.1	1.49	1.46	.330	110	-.200	.000	14.3	.450	.640	-.020	.290	.490	8.23

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C014001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8C014002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8C014003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8C014004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8C014005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8C014006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8C014007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8C014008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8C014009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8C014010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8C014011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8C014012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8C014013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8C014014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8C014015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLC1401		ID8C014016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLC1402		ID8C014017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8C014018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8C014019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8C014020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8C014021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPC024SB		ID8C014022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPC024SL		ID8C014023			1	☒	LCS	None
24	11	2	11	1	QC	IPC024SC		ID8C014024			1	☒	LCS	None
25	12	2	12	1	Unk	C089-06A	dried & sieved	ID8C014025			1	☒	unk	---
26	13	2	1	2	Unk	C089-06	dried & sieved	ID8C014026			1	☒	unk	---
27	14	2	2	2	Unk	C089-06J	dried & sieved	ID8C014027			1	☒	unk	---
28	15	2	3	2	Unk	C089-11	dried & sieved	ID8C014028			1	☒	unk	---
29	16	2	4	2	Unk	C089-12	dried & sieved	ID8C014029			1	☒	unk	---
30	17	2	5	2	Unk	C089-13	dried & sieved	ID8C014030			1	☒	unk	---
31	18	2	6	2	Blank	Blank		ID8C014031			1	☐		---
32	19	2	7	2	QC	CCV2		ID8C014032			1	☒	CCV	None
33	20	2	8	2	QC	CCB2		ID8C014033			1	☒	3XIDL	None
34	21	2	9	2	Unk	C454-07		ID8C014034			1	☒	unk	---
35	22	2	10	2	Unk	C454-07M		ID8C014035			1	☒	unk	---
36	23	2	11	2	Unk	C454-07S		ID8C014036			1	☒	unk	---
37	24	2	12	2	Blank	Blank		ID8C014037			1	☐		---
38	25	2	1	3	QC	CCV3		ID8C014038			1	☒	CCV	None
39	26	2	2	3	QC	CCB3		ID8C014039			1	☒	3XIDL	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	QC	IPC023WB		ID8C014040			1	☒	1/2LOQ	None
41	28	2	4	3	QC	IPC023WL		ID8C014041			1	☒	LCS	None
42	29	2	5	3	QC	IPC023WC		ID8C014042			1	☒	LCS	None
43	30	2	6	3	QC	TXC003SB	TCLP	ID8C014043			1	☒	1/2LOQ	None
44	31	2	7	3	Unk	C429-01A	TCLP	ID8C014044			1	☒	unk	---
45	32	2	8	3	Unk	C429-01	TCLP	ID8C014045			1	☒	unk	---
46	33	2	9	3	Unk	C429-01J	TCLP	ID8C014046			1	☒	unk	---
47	34	2	10	3	Unk	C429-01M	TCLP	ID8C014047			1	☒	unk	---
48	35	2	11	3	Unk	C429-01S	TCLP	ID8C014048			1	☒	unk	---
49	36	2	12	3	Blank	Blank		ID8C014049			1	☐		---
50	37	2	1	4	QC	CCV4		ID8C014050			1	☒	CCV	None
51	38	2	2	4	QC	CCB4		ID8C014051			1	☒	3XIDL	None
52	39	2	3	4	Unk	C429-02	TCLP	ID8C014052			1	☒	unk	---
53	40	2	4	4	Unk	C429-03	TCLP	ID8C014053			1	☒	unk	---
54	41	2	5	4	Unk	C429-04	TCLP	ID8C014054			1	☒	unk	---
55	42	2	6	4	Unk	C429-05	TCLP	ID8C014055			1	☒	unk	---
56	43	2	7	4	Unk	C429-06	TCLP	ID8C014056			1	☒	unk	---
57	44	2	8	4	Unk	C415-01	TCLP	ID8C014057			1	☒	unk	---
58	45	2	9	4	Unk	C415-02	TCLP	ID8C014058			1	☒	unk	---
59	46	2	10	4	Unk	C415-03	TCLP	ID8C014059			1	☒	unk	---
60	47	2	11	4	Unk	C415-04	TCLP	ID8C014060			1	☒	unk	---
61	48	2	12	4	Blank	Blank		ID8C014061			1	☐		---
62	49	2	1	5	QC	CCV5		ID8C014062			1	☒	CCV	None
63	50	2	2	5	QC	CCB5		ID8C014063			1	☒	3XIDL	None
64	51	2	3	5	Unk	C415-05	TCLP	ID8C014064			1	☒	unk	---
65	52	2	4	5	Unk	C415-06	TCLP	ID8C014065			1	☒	unk	---
66	53	2	5	5	Unk	C415-07	TCLP	ID8C014066			1	☒	unk	---
67	54	2	6	5	Unk	B526-01	TCLP	ID8C014067			1	☒	unk	---
68	55	2	7	5	Blank	Blank		ID8C014068			1	☐		---
69	56	2	8	5	QC	CCV6		ID8C014069			1	☒	CCV	None
70	57	2	9	5	QC	CCB6		ID8C014070			1	☒	3XIDL	None
71	69	3	9	1	QC	IPC022WB		ID8C014071			1	☒	1/2LOQ	None
72	70	3	10	1	QC	IPC022WL		ID8C014072			1	☒	LCS	None
73	71	3	11	1	QC	IPC022WC		ID8C014073			1	☒	LCS	None
74	72	3	12	1	Unk	C113-01A		ID8C014074			1	☒	unk	---
75	73	3	1	2	Unk	C113-01		ID8C014075			1	☒	unk	---
76	74	3	2	2	Unk	C113-01J		ID8C014076			1	☒	unk	---
77	75	3	3	2	Unk	C113-01M		ID8C014077			1	☒	unk	---
78	76	3	4	2	Unk	C113-01S		ID8C014078			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	77	3	5	2	Unk	C064-01		ID8C014079			1	☒	unk	---
80	78	3	6	2	Blank	Blank		ID8C014080			1	☐		---
81	79	3	7	2	QC	CCV7		ID8C014081			1	☒	CCV	None
82	80	3	8	2	QC	CCB7		ID8C014082			1	☒	3XIDL	None
83	58	2	10	5	QC	WTC001SB	STLC	ID8C014083			1	☒	1/2LOQ	None
84	59	2	11	5	QC	WTC001SQ	5X STLC	ID8C014084			1	☒	1/2LOQ	None
85	60	2	12	5	Unk	B526-01A	5X STLC	ID8C014085			1	☒	unk	---
86	61	3	1	1	Unk	B526-01T	5X STLC	ID8C014086			1	☒	unk	---
87	62	3	2	1	Unk	B526-01J	25X STLC	ID8C014087			1	☒	unk	---
88	63	3	3	1	Unk	B526-01G	5X STLC	ID8C014088			1	☒	unk	---
89	64	3	4	1	Unk	B526-01H	5X STLC	ID8C014089			1	☒	unk	---
90	65	3	5	1	Blank	Blank		ID8C014090			1	☐		---
91	66	3	6	1	Blank	Blank		ID8C014091			1	☐		---
92	67	3	7	1	QC	CCV8		ID8C014092			1	☒	CCV	None
93	68	3	8	1	QC	CCB8		ID8C014093			1	☒	3XIDL	None
94	81	3	9	2	QC	IPC025SB		ID8C014094			1	☒	1/2LOQ	None
95	82	3	10	2	QC	IPC025SL		ID8C014095			1	☒	LCS	None
96	83	3	11	2	QC	IPC025SC		ID8C014096			1	☒	LCS	None
97	84	3	12	2	Unk	C431-04A	10X	ID8C014097			1	☒	unk	---
98	85	3	1	3	Unk	C431-04T	10X	ID8C014098			1	☒	unk	---
99	86	3	2	3	Unk	C431-04J	50X	ID8C014099			1	☒	unk	---
100	87	3	3	3	Unk	C431-04M	10X	ID8C014100			1	☒	unk	---
101	88	3	4	3	Unk	C431-04S	10X	ID8C014101			1	☒	unk	---
102	89	3	5	3	Unk	C431-01T	10X	ID8C014102			1	☒	unk	---
103	90	3	6	3	Blank	Blank		ID8C014103			1	☐		---
104	91	3	7	3	QC	CCV9		ID8C014104			1	☒	CCV	None
105	92	3	8	3	QC	CCB9		ID8C014105			1	☒	3XIDL	None
106	93	3	9	3	Unk	C431-02T	10X	ID8C014106			1	☒	unk	---
107	94	3	10	3	Unk	C431-03T	10X	ID8C014107			1	☒	unk	---
108	95	3	11	3	Unk	C431-05T	10X	ID8C014108			1	☒	unk	---
109	96	3	12	3	Unk	C431-06T	10X	ID8C014109			1	☒	unk	---
110	97	3	1	4	Unk	C431-07T	10X	ID8C014110			1	☒	unk	---
111	98	3	2	4	Unk	C431-08T	10X	ID8C014111			1	☒	unk	---
112	99	3	3	4	Unk	C431-09T	10X	ID8C014112			1	☒	unk	---
113	100	3	4	4	Unk	C431-10T	10X	ID8C014113			1	☒	unk	---
114	101	3	5	4	Unk	C431-11T	10X	ID8C014114			1	☒	unk	---
115	102	3	6	4	Blank	Blank		ID8C014115			1	☐		---
116	103	3	7	4	QC	CCV10		ID8C014116			1	☒	CCV	None
117	104	3	8	4	QC	CCB10		ID8C014117			1	☒	3XIDL	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	105	3	9	4	Unk	C431-12T	10X	ID8C014118			1	☒	unk	---
119	106	3	10	4	Unk	C443-02T	10X	ID8C014119			1	☒	unk	---
120	107	3	11	4	Unk	C444-01T	10X	ID8C014120			1	☒	unk	---
121	108	3	12	4	Unk	C444-12T	10X	ID8C014121			1	☒	unk	---
122	112	3	4	5	Unk	C106-02		ID8C014122			1	☒	unk	---
123	113	3	5	5	Unk	C106-03		ID8C014123			1	☒	unk	---
124	109	3	1	5	Blank	Blank		ID8C014124			1	☐		---
125	110	3	2	5	QC	CCV11		ID8C014125			1	☒	CCV	None
126	111	3	3	5	QC	CCB11		ID8C014126			1	☒	3XIDL	None
127	114	3	6	5	Unk	C003-01T	10X	ID8C014127			1	☒	unk	---
128	115	3	7	5	Unk	C003-02T	10X	ID8C014128			1	☒	unk	---
129	116	3	8	5	Unk	C003-03T	10X	ID8C014129			1	☒	unk	---
130	117	3	9	5	Unk	C003-04T	10X	ID8C014130			1	☒	unk	---
131	118	3	10	5	Unk	C003-05T	10X	ID8C014131			1	☒	unk	---
132	119	3	11	5	Unk	C003-06T	10X	ID8C014132			1	☒	unk	---
133	120	3	12	5	Unk	C003-11T	10X	ID8C014133			1	☒	unk	---
134	121	4	1	1	Unk	C003-12T	10X	ID8C014134			1	☒	unk	---
135	122	4	2	1	Blank	Blank		ID8C014135			1	☐		---
136	123	4	3	1	QC	CCV12		ID8C014136			1	☒	CCV	None
137	124	4	4	1	QC	CCB12		ID8C014137			1	☒	3XIDL	None
138	125	4	5	1	Unk	C003-13T	10X	ID8C014138			1	☒	unk	---
139	126	4	6	1	Unk	C003-14T	10X	ID8C014139			1	☒	unk	---
140	127	4	7	1	Unk	C003-21T	10X	ID8C014140			1	☒	unk	---
141	128	4	8	1	Unk	C003-22T	10X	ID8C014141			1	☒	unk	---
142	129	4	9	1	Unk	C003-23T	10X	ID8C014142			1	☒	unk	---
143	130	4	10	1	Blank	Blank		ID8C014143			1	☐		---
144	131	4	11	1	QC	CCV13		ID8C014144			1	☒	CCV	None
145	132	4	12	1	QC	CCB13		ID8C014145			1	☒	3XIDL	None
146	133	4	1	2	Unk	C431-04A	100X	ID8C014146			1	☒	unk	---
147	134	4	2	2	Unk	C431-04I	100X	ID8C014147			1	☒	unk	---
148	135	4	3	2	Unk	C431-04J	500X	ID8C014148			1	☒	unk	---
149	136	4	4	2	Unk	C431-04G	100X	ID8C014149			1	☒	unk	---
150	137	4	5	2	Unk	C431-04H	100X	ID8C014150			1	☒	unk	---
151	138	4	6	2	Unk	C431-07I	100X	ID8C014151			1	☒	unk	---
152	139	4	7	2	Unk	C431-08		ID8C014152			1	☒	unk	---
153	140	4	8	2	Unk	C431-09I	100X	ID8C014153			1	☒	unk	---
154	141	4	9	2	Unk	C444-12		ID8C014154			1	☒	unk	---
155	142	4	10	2	Blank	Blank		ID8C014155			1	☐		---
156	143	4	11	2	QC	CCV14		ID8C014156			1	☒	CCV	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	144	4	12	2	QC	CCB14		ID8C014157			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00083	.00002	-.00001	.00021	.00007	.00026	-.00004	.00030	-.00001	-.00098	Blank
2	S20					.87000		.11823				S20
3	S21					8.6618		1.1203				S21
4	S22				.45497						.15387	S22
5	S23				4.4979						1.5962	S23
6	S24						.09032					S24
7	S25						.93859					S25
8	S26	.24590							.91577	.13365		S26
9	S27	8.9667							8.4686	1.2917		S27
10	S28		.00535									S28
11	S29		.05183									S29
12	S30			.00126								S30
13	S31			.00510								S31
14	ICV	103.99	1.4228	1.0087	1.9395	1.4982	2.4267	1.9557	75.989	2.4168	.90988	ICV
15	ICB	.03796	.00155	-.00035	.00083	.00027*	.00801*	.00077*	.16532	.00081	.00044	ICB
16	MRLC1401	.20553	.09854	.00945	.00995	.00993	.01291*	.01015	1.0349	.01024	.00928	MRLC1401
17	MRLC1402	.21695	.05198	.00901	.00577	.00426	.09644	.00539	.60030*	.01044	.00898	MRLC1402
18	ICSA1	390.69	.00794	-.00153	.00270	.00000	.04790	-.00284	472.52	.00016	-.00160	ICSA1
19	ICSAB1	398.06	1.0268	1.0511	.52408	.49160	.54643	.95056	472.70	.47389	.46600	ICSAB1
20	CCV1	105.17	1.5268	1.0438	1.9884	1.4998	2.4789	1.9703	75.551	2.4496	.95672	CCV1
21	CCB1	.03541	.00106	-.00171	.00053	.00019	.00744*	.00030	.09880	.00042	.00027	CCB1
22	IPC024SB	.11954*	.00201	-.00279	.00081	.00068	.00356	.00005	.13966	.00106	-.00005	IPC024SB
23	IPC024SL	5.0001	2.3438	.48296	.48460	.49629	.45302	.48314	49.662	.49082	.48245	IPC024SL
24	IPC024SC	5.0135	2.3716	.48897	.48685	.49840	.45982	.48647	50.404	.49611	.48743	IPC024SC
25	C089-06A	85.080	2.3964	.60571	2.2291	.52333	.52705	.60336	89.491	.67482	.66586	C089-06A
26	C089-06	80.342	.01820	.09757	1.7677	.01094	.06978	.12366	39.747	.18031	.16742	C089-06
27	C089-06J	16.780	.00412	.02047	.36194	.00230	.01472	.02606	8.4509	.03809	.03333	C089-06J
28	C089-11	65.707	.00946	.07609	1.3427	.00702	.04629	.07798	27.110	.17773	.09540	C089-11
29	C089-12	57.418	.00979	.08083	1.3708	.00653	.04609	.06877	24.169	.16640	.08297	C089-12
30	C089-13	69.737	.01195	.09888	1.1959	.00779	.06270	.05356	23.565	.20618	.09510	C089-13
31	Blank	.04665	.00009	-.00116	.00157	.00008	.00080	.00002	.09322	.00022	.00010	Blank
32	CCV2	104.66	1.5285	1.0373	1.9952	1.4996	2.4754	1.9456	74.878	2.4357	.96242	CCV2
33	CCB2	.02054	.00144	-.00114	.00067	.00038*	.00675	.00021	.08674	.00049	.00011	CCB2
34	C454-07	.04400	.00274	-.00477	.00046	.00019	-.00500	.00001	.91327	.00094	-.00060	C454-07
35	C454-07M	5.3212	2.4012	.49326	.49063	.49852	.46666	.46656	49.508	.48593	.48773	C454-07M
36	C454-07S	5.3524	2.4511	.50583	.49574	.50362	.47383	.47757	50.317	.48983	.49403	C454-07S
37	Blank	.00551	.00141	-.00126	.00024	.00016	.00270	.00011	.04983	.00030	.00020	Blank
38	CCV3	106.03	1.5100	1.0279	2.0017	1.4998	2.4720	1.9383	74.743	2.4348	.96092	CCV3
39	CCB3	.02294	.00119	-.00038	.00088	.00049*	.00826*	.00021	.08817	.00040	.00026	CCB3
40	IPC023WB	.00920	-.00006	-.00124	.00011	.00011	.00519	.00004	.01867	.00014	.00012	IPC023WB
41	IPC023WL	5.5751	2.4889	.51817	.50059	.51603	.50721	.50537	50.275	.50300	.48570	IPC023WL
42	IPC023WC	5.4796	2.4681	.51683	.49246	.51084	.50240	.51113	49.947	.50405	.47736	IPC023WC
43	TXC003SB	.04473	.00117	-.00157	.00148	.00012	.03125	-.00001	.07183	.00045	.00014	TXC003SB
44	C429-01A	6.0100	2.5522	.56939	.98432	.52466	.75058	.52770	138.04	.51496	.56953	C429-01A
45	C429-01	.04175	.00624	-.00299	.47748	.00007	.23073	.01131	94.117	.00334	.06896	C429-01
46	C429-01J	.01736	.00123	.00000	.09673	.00005	.04625	.00232	19.265	.00095	.01370	C429-01J
47	C429-01M	5.9727	2.5894	.55712	.98053	.51558	.75758	.50781	138.00	.50186	.56257	C429-01M
48	C429-01S	5.8430	2.5786	.55173	.97685	.50841	.75938	.50356	138.96	.49754	.55755	C429-01S
49	Blank	.01156	.00141	-.00148	.00008	.00009	.00254	.00003	.05688	.00017	-.00004	Blank
50	CCV4	108.75	1.5222	1.0418	2.0401	1.5159	2.5105	1.9545	73.799	2.4615	.96579	CCV4
51	CCB4	.02912	.00109	-.00164	.00055	.00031*	.00703	.00021	.08624	.00045	.00011	CCB4
52	C429-02	.05860	.00719	-.00247	.37646	.00012	.59055	.01859	9.8320	.00645	.00074	C429-02
53	C429-03	.09557	.00191	-.00215	.17714	.00002	.22306	.02228	6.6174	.00122	.00476	C429-03
54	C429-04	.12024	.00136	-.00168	.32357	.00002	.16091	.00413	6.0424	.00170	.00045	C429-04

55	C429-05	.04993	.00035	-.00299	.32606	-.00001	.16361	-.00009	72.694	.00043	.00014	C429-05
56	C429-06	.12496	.00127	-.00155	.33242	.00000	.24504	.00191	7.1601	.00105	.00086	C429-06
57	C415-01	.12635	.00027	.11670	.43098	.00001	.31815	.00021	2.6091	.03222	.00386	C415-01
58	C415-02	.06374	.00056	.19599	.25372	-.00001	.28251	.00009	8.9502	.07753	.00048	C415-02
59	C415-03	.06698	-.00032	-.00202	.04392	-.00006	.18718	.00057	231.59	.00122	.00148	C415-03
60	C415-04	.05207	.00045	-.00320	.04447	-.00006	.41684	.00040	258.01	.00097	.00019	C415-04
61	Blank	.01354	.00112	-.00195	-.00012	.00003	.00184	.00002	.13924	.00010	.00000	Blank
62	CCV5	107.75	1.5180	1.0196	2.0234	1.4837	2.4756	1.8659	72.101	2.3534	.97958	CCV5
63	CCB5	.02638	.00163	-.00123	.00095	.00058*	.00619	.00023	.11354	.00036	.00009	CCB5
64	C415-05	.06148	.00001	-.00204	.35940	.00003	.21990	.00002	2.8537	.00047	.01557	C415-05
65	C415-06	.04273	-.00085	-.00112	.04949	-.00005	.17462	.00044	253.23	.00106	.00030	C415-06
66	C415-07	.09445	-.00011	-.00211	.04417	-.00006	.42267	.00100	205.27	.00106	.00034	C415-07
67	B526-01	.06640	-.00003	-.00339	.07030	-.00001	.15389	.00105	179.09	.00141	.00623	B526-01
68	Blank	.00750	.00005	-.00181	.00013	.00001	.00180	.00005	.19794	-.00003	-.00002	Blank
69	CCV6	106.43	1.5077	1.0056	2.0286	1.4863	2.4646	1.8268	72.085	2.3436	.98279	CCV6
70	CCB6	.02330	.00106	-.00104	.00059	.00037*	.00647	.00021	.08236	.00042	.00015	CCB6
71	IPC022WB	.02443	.00010	-.00035	.00021	.00005	.00520	.00009	.05748	.00022	-.00003	IPC022WB
72	IPC022WL	5.4914	2.4981	.50791	.49930	.50571	.50940	.48829	49.116	.48886	.48830	IPC022WL
73	IPC022WC	5.6019	2.4346	.51364	.50554	.51282	.49948	.49396	48.857	.49500	.49092	IPC022WC
74	C113-01A	5.8432	2.4610	.52907	.54339	.51913	.52386	.50308	57.877	.50310	.49918	C113-01A
75	C113-01	.05754	.00489	-.00152	.03179	.00030	.01862	.00028	9.1847	.00085	.00022	C113-01
76	C113-01J	.01799	.00140	-.00047	.00644	.00001	.00448	.00002	1.9141	.00018	.00012	C113-01J
77	C113-01M	5.7831	2.5464	.53287	.54550	.51764	.52774	.50475	57.246	.50200	.49519	C113-01M
78	C113-01S	5.7913	2.5191	.53007	.54899	.51967	.52746	.50243	58.003	.50396	.49937	C113-01S
79	C064-01	89.350	-.00024	.02195	.97894	.00306	.10406	.00183	233.12	.13314	.04880	C064-01
80	Blank	.02797	.00086	.00015	.00032	-.00002	.00130	.00002	.06271	-.00007	.00012	Blank
81	CCV7	107.60	1.5150	1.0317	2.0407	1.4962	2.4840	1.9033	71.783	2.3937	.97375	CCV7
82	CCB7	.02676	.00138	.00014	.00097	.00037*	.00561	.00027	.22620	.00038	.00018	CCB7
83	WTC001SB	.08661	-.00550	-.00108	.00196	.00013	.00610	-.00008	.07019	.00520*	.00015	WTC001SB
84	WTC001SQ	.01304	.00027	-.00295	.00028	-.00002	.00192	-.00003	.02051	.00087	-.00020	WTC001SQ
85	B526-01A	8.6191	2.5273	.56472	.69512	.50285	.57239	.49005	152.08	.60405	.50875	B526-01A
86	B526-01T	2.9747	.01750	.00495	.19608	.00016	.05690	-.00136	109.97	.10526	.00517	B526-01T
87	B526-01J	.57196	.00364	.00225	.03814	.00009	.01134	-.00046	21.472	.02071	.00104	B526-01J
88	B526-01G	4.1847	.53763	.11995	.30112	.10385	.16102	.10216	118.20	.20953	.10591	B526-01G
89	B526-01H	4.4327	.54233	.12302	.31700	.10351	.16462	.10225	124.09	.21654	.10573	B526-01H
90	Blank	.01317	.00087	-.00062	.00011	.00007	.00067	.00001	.06049	.00005	-.00002	Blank
91	Blank	.01374	.00030	-.00079	.00007	.00002	.00059	-.00001	.02635	.00003	.00010	Blank
92	CCV8	109.18	1.5224	1.0526	2.0654	1.5251	2.5388	1.9649	73.216	2.4755	.97588	CCV8
93	CCB8	.02209	.00126	-.00093	.00049	.00021*	.00504	.00017	.07725	.00028	.00007	CCB8
94	IPC025SB	.03343	.00250	-.00183	.00030	.00015	.00249	-.00004	.07697	.00072	.00003	IPC025SB
95	IPC025SL	5.1242	2.3495	.48839	.49677	.49816	.46011	.48139	48.376	.49496	.49292	IPC025SL
96	IPC025SC	5.1707	2.3847	.49562	.50258	.50289	.46599	.48388	48.994	.49587	.49897	IPC025SC
97	C431-04A	9.8567	2.8046	.57192	5.4060	.52031	.51183	.64184	112.79	.52539	.54928	C431-04A
98	C431-04T	4.0539	.37767	.04053	5.0166	.00014	.00683	.14789	64.363	.02110	.04881	C431-04T
99	C431-04J	.78712	.07554	.00659	.98253	.00006	.00223	.02900	12.932	.00422	.00945	C431-04J
100	C431-04M	5.0391	.39472	.08624	1.8386	.04934	.05363	.16625	65.950	.05939	.09337	C431-04M
101	C431-04S	5.3117	.70478	.09096	6.0837	.04975	.05322	.21907	42.182	.07405	.10491	C431-04S
102	C431-01T	6.0385	-.02911	.03192	1.3436	.00010	.00729	.07445	14.610	7.3725	.16751	C431-01T
103	Blank	.01065	.00059	-.00124	.00198	.00010	.00047	.00007	.05933	.00114	.00008	Blank
104	CCV9	108.86	1.4973	1.0425	2.0315	1.5244	2.5163	1.9755	73.851	2.4858	.96695	CCV9
105	CCB9	.04615	.00154	-.00033	.00155	.00053*	.00548	.00056*	.25057	.00109	.00024	CC89
106	C431-02T	2.7157	.37386	.01150	6.4872	.00007	.01286	.01355	10.736	8.1901	.16548	C431-02T
107	C431-03T	6.5465	.09721	.35131	4.5766	.00012	.00979	.09817	30.774	.03764	.04486	C431-03T
108	C431-05T	13.483	.02230	-.00019	.11418	.00015	.00767	.00349	12.859	.00617	.03592	C431-05T
109	C431-06T	6.5777	.34794	.05260	4.4986	.00010	.01725	.15591	39.653	.05865	.06298	C431-06T
110	C431-07T	3.4001	1.0485	.09263	8.8416	.00008	.00831	.27160	43.255	.04949	.07608	C431-07T
111	C431-08T	8.7054	.00269	.47936	.01520	.00001	.01383	.00080	15.320	.57459	.04819	C431-08T

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
112	C431-09T	4.2142	.20770	.09173	9.2476	.00007	.00653	.16402	27.489	.09269	.05063	C431-09T
113	C431-10T	6.8789	.01085	.00015	.03494	.00004	.01370	.00040	32.355	.00958	.11927	C431-10T
114	C431-11T	8.3453	1.1371	.02293	6.3397	.00009	.00773	.10076	67.304	.06152	.08532	C431-11T
115	Blank	.01137	.00120	-.00044	.00280	.00000	.00008	-.00001	.04363	.00009	.00001	Blank
116	CCV10	108.01	1.4960	1.0358	2.0162	1.5087	2.5079	1.9662	73.519	2.4745	.96471	CCV10
117	CCB10	.03635	.00092	-.00118	.00114	.00039*	.00561	.00027	.20160	.00074	.00010	CCB10
118	C431-12T	4.9230	1.1216	.01550	.31724	.00010	.00986	.01343	49.518	.20625	.10110	C431-12T
119	C443-02T	.20098	.00599	.00193	.01451	.00004	.01928	-.00155	.43510	.31017	.00976	C443-02T
120	C444-01T	9.3340	.00159	-.00091	.00722	.00005	.00171	.01141	.47258	.02139	.00782	C444-01T
121	C444-12T	.18313	.00118	-.00011	.01852	-.00001	.00211	.00056	1.6833	.00058	.00466	C444-12T
122	C106-02	.02720	.00018	.00202	.09129	.00002	.05614	.00002	61.852	.01356	-.00036	C106-02
123	C106-03	.03380	.00097	.00236	.08689	.00002	.05590	.00007	60.987	.01231	-.00019	C106-03
124	Blank	.01999	.00045	-.00193	.00006	.00003	.00060	.00000	.07286	.00005	.00010	Blank
125	CCV11	108.44	1.4948	1.0307	2.0543	1.5125	2.5144	1.9434	72.685	2.4679	.97029	CCV11
126	CCB11	.03632	.00089	-.00124	.00168	.00090*	.00595	.00028	.17307	.00078	.00019	CCB11

ID8C014 Section 1 of 3

ID8C014 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00131	.00000	-.00008	.00002	.00000	.00001	-.00005	-.00055	-.00031	.00000	Blank
2	S20			.19471			.11073					S20
3	S21			1.9443			1.1040					S21
4	S22	.30955	.05965									S22
5	S23	2.9889	2.2368									S23
6	S24							.74050				S24
7	S25							7.5295				S25
8	S26								.76610	.31817		S26
9	S27								7.2834	3.1834		S27
10	S28					.11273						S28
11	S29					.45351						S29
12	S30				.02707						.00136	S30
13	S31				.13289						.00545	S31
14	ICV	2.4439	24.992	2.3716	.51649	56.558	2.2887	2.3785	2.4370	58.289	.99338	ICV
15	ICB	.00099	.01426	.00116	.00025	.01055	.00063	.00288*	.00098	.09300	-.00066	ICB
16	MRLC1401	.00990	.21808	.01092	.00955	.95484	.00985	.01011	.01039	.97235	.00821	MRLC1401
17	MRLC1402	.01050	.10972	.00391*	.09996	.19878	.00522	.00983	.01042	.98705	.00903	MRLC1402
18	ICSA1	.00098	181.61	.00105	.00500	182.13	.00141	-.00068	.00059	-.01160	.00312	ICSA1
19	ICSAB1	.52425	187.95	.94171	1.1015	188.35	.45360	1.0031	.98499	77.232	1.0440	ICSAB1
20	CCV1	2.4968	25.062	2.4344	.52494	56.566	2.3375	2.5158	2.5113	59.150	1.0379	CCV1
21	CCB1	.00043	.05044	.00086	.00017	.01391	.00068	.00227*	.00044	.08320	.00013	CCB1
22	IPC024SB	.00086	.06096	.00074	.00049	.06212	.00118	.00066	.00060	.12699	-.00027	IPC024SB
23	IPC024SL	.49300	5.0385	.48924	.00010*	46.158	.46982	.51430	.45236	47.246	.48085	IPC024SL
24	IPC024SC	.49716	5.0498	.49094	.00035*	46.680	.47191	.52116	.45558	48.013	.48344	IPC024SC
25	C089-06A	.61588	212.97	3.0895	.03527	54.108	9.7621	.53773	.67255	56.950	.50529	C089-06A
26	C089-06	.09373	214.70	2.6933	.03503	7.2853	9.6265	.00959	.20041	7.4372	.00352	C089-06
27	C089-06J	.01933	45.922	.55684	.00691	1.5238	2.0229	.00193	.04055	1.5270	-.00042	C089-06J
28	C089-11	.12489	139.58	.61897	.02708	6.2375	6.5661	.00986	.09207	5.5856	.00468	C089-11
29	C089-12	.11384	140.48	.54479	.02259	5.3876	6.4748	.00746	.08047	4.8929	.00487	C089-12
30	C089-13	.10053	192.79	.49501	.02614	6.0104	5.9447	.00855	.08224	4.7946	.00558	C089-13
31	Blank	.00018	.10042	.00098	.00045	.00661	.00685	.00020	.00018	.03500	-.00023	Blank
32	CCV2	2.5257	24.692	2.4444	.52610	56.176	2.3300	2.5337	2.5206	58.976	1.0344	CCV2
33	CCB2	.00064	.00603	.00106	.00031	.01562	.00085	.00207*	.00051	.06315	.00048	CCB2
34	C454-07	.00198	.04527	-.00627*	77.900*	.04977	.00096	.00045	.00054	.11784	.00044	C454-07
35	C454-07M	.51930	4.9455	.47652	75.121*	44.807	.46271	.52699	.45604	49.334	.49830	C454-07M
36	C454-07S	.52753	4.9945	.48156	81.569*	45.467	.46735	.53190	.46110	50.358	.51369	C454-07S
37	Blank	.00035	.00311	.00075	.04667	.00667	.00022	.00053	.00030	.21661	.00019	Blank
38	CCV3	2.5254	24.771	2.4392	.54178	55.989	2.3296	2.5216	2.5170	59.413	1.0270	CCV3
39	CCB3	.00076	.00576	.00122	.00907*	.00985	.00079	.00211*	.00036	.14245	.00078	CCB3
40	IPC023WB	.00032	.00654	.00083	.00586	.00796	.00032	.00034	.00022	.06785	.00022	IPC023WB
41	IPC023WL	.52422	5.2116	.50037	.00553*	47.024	.48099	.50742	.45605	48.821	.51285	IPC023WL
42	IPC023WC	.51927	5.1339	.49050	.00560*	47.066	.47940	.49927	.44800	48.256	.51533	IPC023WC
43	TXC003SB	.00107	.00652	.00005	.00584	.01101	.00056	.00102	.00034	.20598	.00167	TXC003SB
44	C429-01A	.65601	5.4555	.50227	.01467	48.680	.65909	.53111	.59310	54.362	.58204	C429-01A
45	C429-01	.08833	.29714	.00162	.01391	1.7891	.17660	.00539	.11690	1.5247	.00162	C429-01
46	C429-01J	.01764	.06182	.00128	.00576	.37983	.03612	.00109	.02303	.38796	.00005	C429-01J
47	C429-01M	.64707	5.3316	.49652	.01317	47.744	.64728	.53252	.57753	53.884	.57584	C429-01M
48	C429-01S	.63582	5.2928	.49278	.01361	47.300	.64242	.52865	.57320	53.628	.56921	C429-01S
49	Blank	.00047	.00168	.00029	.00365	.01005	.00013	.00052	.00007	.19331	.00085	Blank
50	CCV4	2.6203	24.641	2.4400	.54295	55.633	2.3432	2.5415	2.5338	60.203	1.0441	CCV4
51	CCB4	.00077	.00598	.00080	.00268*	.01307	.00052	.00184*	.00056	.12731	-.00033	CCB4
52	C429-02	.00709	.07575	.00565	.51899	2.0442	.03347	.01535	.00501	1.1988	.00174	C429-02
53	C429-03	1.4010	.05541	.00487	.00606	2.9148	.08490	.00059	.29343	1.6588	.00110	C429-03
54	C429-04	.03046	.11799	.00339	.01468	.53500	.00905	.00042	.00801	1.0509	.00240	C429-04

55	C429-05	.00449	-.01197	.00059	.00682	56.086	.08864	.01019	.01379	1.8437	.00104	C429-05
56	C429-06	.17804	.13983	.00124	.00687	1.6066	.08520	.00067	.05362	1.3105	.00171	C429-06
57	C415-01	.12567	.02483	.00243	.00480	.28991	.07006	.00017	.00107	1.7058	.00206	C415-01
58	C415-02	.60090	.02686	.00050	.00422	1.1723	.11584	.00022	.00065	2.8293	.00226	C415-02
59	C415-03	.00836	.01046	.00206	.00802	.87260	1.6888	.00095	.00196	1.5682	.00159	C415-03
60	C415-04	.00307	.01056	.00178	.00865	1.4962	.34335	.00189	.00128	7.6192	.00212	C415-04
61	Blank	.00032	.00032	.00110	.00262	.00312	.00023	.00015	.00011	.13049	-.00120	Blank
62	CCV5	2.6081	23.711	2.4627	.54050	53.343*	2.2812	2.5958	2.5606	59.164	1.0369	CCV5
63	CCB5	.00132*	.00413	.00050	.00182	.01696	.00105	.00157*	.00031	.12907	-.00027	CCB5
64	C415-05	.00298	.01190	.00065	.00221	.16894	.06295	.00036	.00039	1.4259	.00250	C415-05
65	C415-06	.00242	.00928	.00105	.00621	1.0050	1.5031	.00120	.00133	1.3947	.00086	C415-06
66	C415-07	.00381	.01479	.00458	.00767	1.8973	.62468	.00131	.00140	8.0201	.00115	C415-07
67	B526-01	.16211	.86108	.00508	.00718	3.9428	.54447	.00048	.60876	1.7087	.00115	B526-01
68	Blank	.00036	-.00146	.00045	.00222	.00054	.00054	.00015	.00020	.12766	.00046	Blank
69	CCV6	2.5996	23.678	2.4606	.54094	53.438*	2.2783	2.6028	2.5625	59.470	1.0229	CCV6
70	CCB6	.00085	.00243	.00152	.00123	.01116	.00078	.00153*	.00030	.13280	-.00004	CCB6
71	IPC022WB	.00021	.00341	.00099	.00124	.00451	.00023	.00034	.00018	.08359	-.00039	IPC022WB
72	IPC022WL	.52645	4.9930	.50117	.00193*	45.325	.47013	.51623	.45731	49.178	.51371	IPC022WL
73	IPC022WC	.53720	5.0386	.50057	.00157*	45.359	.47679	.50362	.46019	49.263	.51856	IPC022WC
74	C113-01A	.56425	5.2413	.50946	.00341	47.269	.48498	.51444	.47659	51.059	.53293	C113-01A
75	C113-01	.01203	.12025	.00478	.00248	1.4184	.00311	.00098	.00103	1.6586	-.00027	C113-01
76	C113-01J	.00249	.02359	.00168	.00116	.28637	.00072	.00031	.00018	.36428	-.00125	C113-01J
77	C113-01M	.56633	5.2009	.50547	.00325	47.023	.48226	.52158	.46491	50.656	.53387	C113-01M
78	C113-01S	.56668	5.2343	.51043	.00263	47.330	.48580	.51947	.46878	51.553	.53741	C113-01S
79	C064-01	.18891	82.765	.08879	.09766	34.087	2.1555	.01222	.08533	28.727	.00172	C064-01
80	Blank	.00008	.02018	.00091	.00086	.00978	.00052	.00018	.00001	.06790	-.00052	Blank
81	CCV7	2.6388	23.888	2.4390	.54338	53.843*	2.3067	2.5649	2.5458	59.705	1.0486	CCV7
82	CCB7	.00064	.00562	.00090	.00112	.01380	.00078	.00167*	.00049	.11009	-.00022	CCB7
83	WTC001SB	.00212	.01736	-.00003	.00761	.01427	.00066	.00081	.00046	1.0641*	.02714*	WTC001SB
84	WTC001SQ	.00090	.00079	.00027	.00445	-.00706	.00017	.00027	.00001	.43988	.00341	WTC001SQ
85	B526-01A	.55873	119.45	1.7566	.00735	47.614	1.1178	.54196	.94349	54.325	.58271	B526-01A
86	B526-01T	.00425	118.87	1.2917	.00708	2.8143	.67576	.02150	.48438	1.1199	.00343	B526-01T
87	B526-01J	.00108	23.274	.25015	.00355	.54790	.13287	.00415	.09181	.35462	.00102	B526-01J
88	B526-01G	.11791	119.50	1.3572	.00730	11.967	.76611	.12739	.56813	12.008	.12159	B526-01G
89	B526-01H	.11945	127.35	1.4514	.00933	12.120	.81155	.12976	.60406	12.159	.12263	B526-01H
90	Blank	.00032	.02815	.00045	.00324	.00499	.00029	.00017	.00014	.20278	-.00024	Blank
91	Blank	.00017	.00430	.00071	.00163	-.00647	.00020	.00007	-.00001	.12836	-.00072	Blank
92	CCV8	2.6935	24.284	2.4318	.54834	55.525	2.3632	2.5545	2.5543	60.661	1.0593	CCV8
93	CCB8	.00058	.00407	.00052	.00149	.00694	.00046	.00158*	.00017	.16109	.00003	CCB8
94	IPC025SB	.00066	.01722	.00074	.00095	.01082	.00046	.00063	.00034	.13873	-.00035	IPC025SB
95	IPC025SL	.51975	4.9213	.48964	.00178*	44.902	.47045	.52282	.46035	48.204	.49403	IPC025SL
96	IPC025SC	.52585	4.9417	.49463	.00147*	45.488	.47377	.53498	.46671	48.970	.49863	IPC025SC
97	C431-04A	.57236	6.6518	90.406*	.01162	50.635	.55881	.51151	.48150	51.338	.53051	C431-04A
98	C431-04T	.01977	1.5627	91.962*	.01027	4.3124	.07547	.00103	.00552	.67021	-.00002	C431-04T
99	C431-04J	.00412	.30922	18.195	.00235	.86460	.01509	-.00016	.00111	.19243	.00009	C431-04J
100	C431-04M	.06926	1.5853	83.972	.00918	8.5570	.11193	.03903	.04844	5.3734	.03812	C431-04M
101	C431-04S	.07436	2.2348	120.07*	.01101	9.0625	.12113	.03733	.05083	5.4084	.04217	C431-04S
102	C431-01T	.10880	8.9563	88.089	.00634	2.7239	.11171	.01426	.02372	.84455	.00054	C431-01T
103	Blank	.00009	.00272	.02261	.00018	.00503	.00019	.00011	.00009	.04454	.00041	Blank
104	CCV9	2.6395	24.362	2.4073	.54452	56.055	2.3666	2.5154	2.5186	60.279	1.0435	CCV9
105	CCB9	.00099	.00851	.00760*	.00064	.02448	.00114	.00199*	.00073	.09054	-.00031	CCB9
106	C431-02T	.12490	9.5540	50.491	.00434	1.1706	.06386	.00346	.00548	1.5231	.00112	C431-02T
107	C431-03T	.05674	3.6313	81.494	.00688	4.6715	.09502	.00079	.01721	.78687	.00183	C431-03T
108	C431-05T	16.802	1.6276	4.8888	.00292	.73559	.02142	-.00010	.00641	1.9384	-.00090	C431-05T
109	C431-06T	.13905	7.3993	72.840	.00736	3.4925	.24396	.00073	.05437	.68673	.00049	C431-06T
110	C431-07T	.82109	4.3024	124.43*	.00924	4.7769	.18576	.00146	.10354	.49277	.00190	C431-07T
111	C431-08T	.22124	1.3059	.06053	.00160	1.3426	.01109	-.00029	.00272	.26598	-.00032	C431-08T

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	C431-09T	.04021	2.6066	121.17*	.00906	4.1733	.07386	.00115	.00501	.58345	.00177	C431-09T
113	C431-10T	.24341	30.038	.25178	.00388	1.8281	.06081	.00043	.00482	.41471	.00014	C431-10T
114	C431-11T	.01764	2.5707	84.685	.00578	3.0280	.05806	.00018	.01103	.85560	-.00050	C431-11T
115	Blank	-.00003	.00379	.01630	.00053	-.00315	.00012	.00009	.00001	.01303	.00053	Blank
116	CCV10	2.6102	24.297	2.4193	.54181	55.356	2.3420	2.5157	2.5165	60.001	1.0376	CCV10
117	CCB10	.00091	.00639	.00278	.00087	.01466	.00089	.00182*	.00033	.06096	.00003	CCB10
118	C431-12T	.03070	13.682	5.3840	.00554	1.3611	.06537	.00027	.01158	.52041	.00000	C431-12T
119	C443-02T	.01008	105.39	.87205	.00203	.48324	.42644	.01963	.00534	.07319	-.00100	C443-02T
120	C444-01T	.00553	.84918	.08368	.00063	.63509	.00866	.00040	.00557	.09972	.00047	C444-01T
121	C444-12T	.00207	.15700	.00500	.00085	.02911	.00162	.00028	.00060	.06486	-.00066	C444-12T
122	C106-02	.00074	.00209	.00148	.03410	11.823	.00021	.01848	-.00004	2.2250	-.00024	C106-02
123	C106-03	.00085	.20723	.00200	.03396	11.611	.00788	.01894	.00114	2.2232	.00114	C106-03
124	Blank	.00022	.00232	.00083	.00137	.00241	.00021	.00014	-.00001	.02923	-.00011	Blank
125	CCV11	2.6638	24.254	2.4161	.54683	54.921	2.3396	2.5263	2.5336	60.471	1.0472	CCV11
126	CCB11	.00083	.00883	.00177	.00098	.03413	.00149	.00146*	.00033	.11023	-.00020	CCB11

ID8C014 Section 2 of 3

ID8C014 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00377	-.00012	-.00001	.00007	.00002	-.00015	.00052	Blank
2	S20									S20
3	S21									S21
4	S22							.14758		S22
5	S23							1.4721		S23
6	S24		1.0475							S24
7	S25		6.1163							S25
8	S26									S26
9	S27									S27
10	S28				.00600					S28
11	S29				.05653					S29
12	S30	.04073		.12253		.02668	.01589		.60793	S30
13	S31	.20045		.59728		.13044	.07847		5.9692	S31
14	ICV	.49486	61.843	.48544	2.3119	.47733	.48942	1.4470	2.5795	ICV
15	ICB	.00023	-.01775	.00009	.00197	.00062	.00000	.00062	.01036	ICB
16	MRLC1401	.01003	.96685	.01007	.01081	.00012	.00993	.01000	.02087	MRLC1401
17	MRLC1402	.01017	.46615	.01048	.01116	.00966	.01003	.01030	.01469*	MRLC1402
18	ICSA1	.00031	.11302	.00110	.00406	.00157	.00309	.00203	.00447	ICSA1
19	ICSAB1	1.0831	80.878	.49769	.86008	.97869	.97423	.48855	1.0459	ICSAB1
20	CCV1	.50359	62.487	.49537	2.3846	.50515	.49386	1.4833	2.6487	CCV1
21	CCB1	.00014	-.00644	.00009	.00125	-.00026	-.00021	.00026	.00531	CCB1
22	IPC024SB	.00015	.01660	.00030	.00001	.04203	.00005	.00054	.00325	IPC024SB
23	IPC024SL	.47655	49.974	.46657	.46420	.52513	.49386	.49480	.53329	IPC024SL
24	IPC024SC	.48038	50.816	.47317	.46786	.53088	.49756	.49638	.53730	IPC024SC
25	C089-06A	.48747	53.013	.57152	.45821	.54040	1.1171	.90899	15.656	C089-06A
26	C089-06	-.00055	.73297	.09070	.00000	.04459	.62605	.41535	15.429	C089-06
27	C089-06J	-.00008	.08536	.01853	-.00034	.00931	.12842	.08628	3.1471	C089-06J
28	C089-11	-.00069	.40352	.08724	-.00114	.04888	.89377	.32355	15.288	C089-11
29	C089-12	-.00065	.35357	.07769	-.00126	.04532	.81044	.32711	13.721	C089-12
30	C089-13	-.00092	.52987	.08085	.00015	.04620	.95515	.44043	11.273	C089-13
31	Blank	.00004	-.08841	.00010	.00040	.00028	.00100	.00034	.00637	Blank
32	CCV2	.50538	62.369	.49803	2.3613	.50583	.49403	1.4727	2.6304	CCV2
33	CCB2	.00002	-.04711	.00010	.00103	.00010	.00006	.00034	.00490	CCB2
34	C454-07	-.00019	.08398	.00059	-.00235	.04449	.00015	.00037	.02561	C454-07
35	C454-07M	.49876	51.622	.47579	.43725	.52825	.49558	.49203	.55767	C454-07M
36	C454-07S	.50616	52.547	.47938	.44698	.53233	.50181	.49738	.56198	C454-07S
37	Blank	.00017	.13705	.00016	.00004	.00043	-.00007	.00035	.00557	Blank
38	CCV3	.50388	62.843	.49858	2.3493	.50428	.49291	1.4762	2.6351	CCV3
39	CCB3	.00011	.04786	.00019	.00050	.00003	-.00027	.00038	.00472	CCB3
40	IPC023WB	-.00013	-.00438	.00013	.00035	.00012	-.00044	.00008	.00239	IPC023WB
41	IPC023WL	.51641	51.746	.48166	.49915	.48770	.50797	.50604	.53075	IPC023WL
42	IPC023WC	.51327	51.193	.47847	.50294	.47653	.50234	.49782	.52428	IPC023WC
43	TXC003SB	.00015	355.10*	.00160	-.00088	.00132	.00028	.00033	.00748	TXC003SB
44	C429-01A	.54289	405.79	.56291	.48082	.48065	.51226	.51515	11.042	C429-01A
45	C429-01	-.00017	362.34	.07524	-.00194	.00176	.00140	.00030	10.866	C429-01
46	C429-01J	-.00005	74.062	.01511	-.00063	.00012	.00036	.00014	2.1833	C429-01J
47	C429-01M	.55365	404.03	.55877	.46426	.48418	.51087	.50849	10.960	C429-01M
48	C429-01S	.54625	406.62	.55656	.45876	.48157	.50618	.50247	11.069	C429-01S
49	Blank	-.00003	.26929	.00005	-.00062	-.00011	-.00010	.00018	.00272	Blank
50	CCV4	.51439	63.662	.50941	2.3725	.49790	.49787	1.4754	2.6147	CCV4
51	CCB4	.00010	.07261	.00015	.00084	-.00013	.00000	.00039	.00559	CCB4
52	C429-02	-.00008	311.85	.08487	-.00139	.00124	.00041	.00055	2.6901	C429-02
53	C429-03	.00101	301.85	.04298	-.00211	.00122	.00004	.00020	.73934	C429-03
54	C429-04	-.00014	319.13	.03269	-.00167	.00143	.00000	.00023	4.4157	C429-04

55	C429-05	-.00020	367.25	1.6545	-.00108	.00087	.00099	-.00021	.12037	C429-05
56	C429-06	-.00002	315.67	.04561	-.00095	.00073	-.00002	.00020	1.0555	C429-06
57	C415-01	-.00011	328.96	.02228	-.00149	.00149	.00131	.00023	.58617	C415-01
58	C415-02	-.00001	324.31	.02424	-.00134	.00114	.00052	.00025	.36561	C415-02
59	C415-03	-.00017	341.71	1.6247	-.00132	.00086	.00186	.00050	.24168	C415-03
60	C415-04	-.00034	338.37	1.5800	-.00166	.00151	.00183	.00126	.18080	C415-04
61	Blank	-.00006	.30642	.00050	-.00051	.00003	.00001	.00017	.00535	Blank
62	CCV5	.50617	62.809	.50730	2.2916	.50460	.49075	1.4443	2.5670	CCV5
63	CCB5	.00003	.12439*	.00035	.00073	.00065	.00006	.00039	.00462	CCB5
64	C415-05	-.00011	323.46	.01325	-.00183	.00151	.00064	.00021	.32896	C415-05
65	C415-06	-.00043	342.50	1.6488	-.00186	.00113	.00201	.00063	.19735	C415-06
66	C415-07	-.00034	339.76	1.5837	-.00147	.00147	.00187	.00116	.26922	C415-07
67	B526-01	-.00013	342.12	.79104	-.00159	.00232	.00345	.00028	4.6274	B526-01
68	Blank	-.00015	.54464	.00082	.00013	.00033	-.00022	.00015	.00219	Blank
69	CCV6	.50270	63.012	.50600	2.2475*	.50573	.49182	1.4432	2.5538	CCV6
70	CCB6	-.00015	.10095*	.00018	.00071	.00018	-.00015	.00040	.00446	CCB6
71	IPC022WB	-.00006	.06487	.00017	.00000	.00023	-.00013	.00031	.00414	IPC022WB
72	IPC022WL	.51311	52.072	.49088	.48473	.49019	.50389	.49100	.51502	IPC022WL
73	IPC022WC	.51934	52.043	.48060	.48990	.47143	.49350	.49568	.51499	IPC022WC
74	C113-01A	.51042	65.424	.52892	.50135	.47630	.50641	.50453	1.0281	C113-01A
75	C113-01	.00012	13.258	.04486	-.00024	.00070	.00381	.00119	.50063	C113-01
76	C113-01J	-.00008	2.6936	.00932	-.00048	.00041	.00056	.00032	.10275	C113-01J
77	C113-01M	.52714	64.981	.53871	.49752	.48326	.51581	.50156	1.0256	C113-01M
78	C113-01S	.52966	65.975	.53780	.49656	.48066	.51447	.50387	1.0361	C113-01S
79	C064-01	.00008	29.473	1.3159	-.00002	.00929	5.2324	.19751	1.0580	C064-01
80	Blank	.00017	-.03260	.00030	-.00011	.00008	.00114	.00021	.00091	Blank
81	CCV7	.51026	63.168	.51265	2.3220	.49287	.49164	1.4488	2.5561	CCV7
82	CCB7	.00009	-.00605	.00025	.00077	.00032	.00018	.00050	.01020	CCB7
83	WTC001SB	-.00002	2363.4*	.00151	-.01899	.01102	.00041	.00050	.00423	WTC001SB
84	WTC001SQ	-.00009	540.68*	.00027	-.00307	.00168	.00014	.00028	.00158	WTC001SQ
85	B526-01A	.53623	609.80	1.0453	.44506	.58355	.55893	.51892	2.4371	B526-01A
86	B526-01T	.00031	571.41	.58119	-.00102	.10245	.06696	.01457	1.9406	B526-01T
87	B526-01J	-.00003	114.48	.11314	-.00022	.01930	.01339	.00288	.36130	B526-01J
88	B526-01G	.11340	576.61	.67078	.09279	.19729	.16872	.11846	2.0069	B526-01G
89	B526-01H	.11418	609.72	.71422	.09319	.20314	.17369	.11888	2.1475	B526-01H
90	Blank	.00005	.64114	.00023	-.00029	.00030	.00015	.00019	.00152	Blank
91	Blank	-.00006	.28420	.00003	.00028	.00025	-.00025	.00001	.00131	Blank
92	CCV8	.52402	64.250	.51799	2.3748	.48916	.49958	1.4645	2.5719	CCV8
93	CCB8	.00008	.23562*	.00013	-.00019	.00037	.00000	.00029	.00462	CCB8
94	IPC025SB	-.00017	.28431	.00039	-.00056	.04085	.00041	.00038	.00533	IPC025SB
95	IPC025SL	.48946	51.044	.48209	.46066	.51117	.49431	.48992	.52044	IPC025SL
96	IPC025SC	.49287	51.928	.48945	.46525	.52279	.50178	.49409	.52821	IPC025SC
97	C431-04A	.51341	53.952	.60614	.48469	.50195	1.2250	.50976	68.416*	C431-04A
98	C431-04T	.00182	.55757	.11623	-.00055	.02395	.73185	.00578	66.151*	C431-04T
99	C431-04J	.00033	.14985	.02292	.00013	.00495	.14265	.00132	14.972	C431-04J
100	C431-04M	.05101	5.7295	.11933	.04659	.07403	.78649	.05318	58.926*	C431-04M
101	C431-04S	.05158	5.6434	.13727	.04704	.07357	.89781	.05301	74.351*	C431-04S
102	C431-01T	.00212	.53175	.06291	.00185	.04112	1.1080	.06995	44.778*	C431-01T
103	Blank	.00016	.00366	.00006	-.00032	.00017	.00046	.00004	.01790	Blank
104	CCV9	.52001	63.846	.51299	2.3768	.48320	.49436	1.4641	2.5678	CCV9
105	CCB9	.00008	.07115	.00028	.00092	.00029	.00036	.00065	.01618*	CCB9
106	C431-02T	.00057	1.3338	.05606	.00181	.02606	.30777	.01476	24.135	C431-02T
107	C431-03T	.00248	1.1886	.11347	-.00002	.05470	.63631	.01604	66.600*	C431-03T
108	C431-05T	.00407	4.3439	.01776	-.00009	2.9299	.63024	.00506	13.804	C431-05T
109	C431-06T	.00218	1.1235	.08421	.00020	.03754	.96654	.02271	66.022*	C431-06T
110	C431-07T	.00305	.46107	.08608	-.00001	.03853	.69403	.01429	83.241*	C431-07T
111	C431-08T	.00416	.13203	.01207	-.00023	.01780	.50975	.00662	18.918	C431-08T

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
112	C431-09T	.00278	.39267	.10236	-.00005	.03797	.65202	.00819	75.246*	C431-09T
113	C431-10T	.00063	.75376	.02173	-.00057	.04273	.18089	.00656	15.004	C431-10T
114	C431-11T	.00189	1.2031	.09006	.00008	.03234	.66232	.01690	64.094*	C431-11T
115	Blank	.00003	-.05136	.00007	-.00032	.00050	.00013	.00015	.01629	Blank
116	CCV10	.51763	63.501	.51125	2.3721	.48683	.49178	1.4575	2.5809	CCV10
117	CCB10	.00004	-.00317	.00025	.00078	.00026	-.00008	.00026	.01121	CCB10
118	C431-12T	.00074	.79554	.03381	-.00010	.03386	.82504	.01017	24.428	C431-12T
119	C443-02T	.00018	.00168	.17988	.00182	.00570	.02186	.00440	.74800	C443-02T
120	C444-01T	-.00006	-.04472	.00109	-.00014	.00457	.04796	.00256	.59774	C444-01T
121	C444-12T	.00015	.01360	.00107	-.00059	.00362	.02043	.00029	.02210	C444-12T
122	C106-02	-.00006	44.631	.86742	-.00059	.00010	.00061	.00619	.05904	C106-02
123	C106-03	-.00017	44.293	.85464	-.00001	.00022	.00097	.00531	.05419	C106-03
124	Blank	.00004	-.02487	.00016	-.00039	.00012	-.00002	.00017	.00450	Blank
125	CCV11	.51830	63.887	.51534	2.3391	.48345	.49431	1.4563	2.5657	CCV11
126	CCB11	.00000	.01432	.00045	.00064	-.00002	.00029	.00049	.00823	CCB11

ID8C014 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IPC024 S
Matrix: Soil
Digestor ID: C

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90/91 °C		90/91 °C

Standards	ID	Amount Added (ml)
LCS-1	SMIA-13-01-28	.5
LCS-2	SMIA-13-01-29	.5
LCS-3	SMIA-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SWIA-04-329	10
HCl	SWIA-04-333	5+5
H_2O_2	SWIA-04-301	10
HNO3(1:1)	SMSB-02-146	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SMSA-02-060
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 11124 1146

Prepared By: HF
Standard Added By: HF Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

FileID: IPC024S

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPC024S01	IPC024SB	1	g	3/11/11 13:00	100	1	100	1	
11IPC024S02	IPC024SL	1	g	3/11/11 13:00	100	1	100	1	
11IPC024S03	IPC024SC	1	g	3/11/11 13:00	100	1	100	1	
11IPC024S04	C089-06	1.05	g	3/11/11 13:01	100	1	100	0.952	DRIED AND SIEVED ✓
11IPC024S05	C089-11	1.12	g	3/11/11 13:02	100	1	100	0.893	DRIED AND SIEVED ✓
11IPC024S06	C089-12	1.05	g	3/11/11 13:02	100	1	100	0.952	DRIED AND SIEVED ✓
11IPC024S07	C089-13	1.08	g	3/11/11 13:03	100	1	100	0.926	DRIED AND SIEVED ✓
11IPC024S08	C454-07	1.04	g	3/11/11 13:05	100	1	100	0.962	
11IPC024S09	C454-07M	1.03	g	3/11/11 13:07	100	1	100	0.971	
11IPC024S10	C454-07S	1.07	g	3/11/11 13:08	100	1	100	0.935	

HF 3/11/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 3/11/11 14:30 Prepared By: HF

☑ Digestion Ended @ 3/11/11 16:30 Checked By: TH

Comments: Date 3/11/11

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11C217**

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GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7046 7047 – 7067
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-28-2011
EMAX Batch No.: 11C217

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 03/22/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CP094-S2-04-01	C217-D1	03/03/11	SOIL	CADMIUM
CP091-17-01	C217-02	03/06/11	SOIL	CADMIUM
CP091-17-02	C217-03	03/06/11	SOIL	CADMIUM
CB237-04-01	C217-04	03/15/11	SOIL	CADMIUM
CB237-04-02	C217-05	03/15/11	SOIL	CADMIUM
CB237-05-01	C217-06	03/15/11	SOIL	CADMIUM
CB237-05-02	C217-07	03/15/11	SOIL	CADMIUM
CB237-06-02	C217-08	03/15/11	SOIL	CADMIUM
CB237-07-01	C217-09	03/15/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB237-07-02	C217-10	03/15/11	SOIL	CADMIUM
CB237-08-01	C217-11	03/15/11	SOIL	CADMIUM
CB237-08-02	C217-12	03/15/11	SOIL	CADMIUM
CB237-05-02-FD	C217-13	03/15/11	SOIL	CADMIUM
CB215-10-01	C217-14	03/17/11	SOIL	CADMIUM
CB215-10-02	C217-15	03/17/11	SOIL	CADMIUM
CB214-12A-01	C217-16	03/17/11	SOIL	LEAD
				METALS BY ICP

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS SIEVE AND OVEN DRY SOIL
CB048-17A-02	C217-17	03/17/11	SOIL	CADMIUM
CB048-17A-01	C217-18	03/17/11	SOIL	CADMIUM
CB214-12A-02	C217-19	03/17/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Chain of
Custody Record

CH-1002

11C217

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager		Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante		March 21, 2011	1 of 2
Address	**Telephone Number**	**Fax Number**		
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401		
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**	
Houston, TX 77079	John Ynfante	Contact John Ynfante		
Project Name	**Carrier/Waybill Number**	**CH2M HILL Project Number:**		
Tar Creek OU4	794556344750	395950.CV.01		
Samplers:				
Various CH2M HILL personnel				

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cadmium Only				Comments
1	CP094-S2-04-01	March 3, 2011	10:50	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
2	CP091-17-01	March 6, 2011	15:10	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
3	CP091-17-02	March 6, 2011	15:15	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
4	CB237-04-01	March 15, 2011	14:00	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
5	CB237-04-02	March 15, 2011	14:05	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
6	CB237-05-01	March 15, 2011	13:35	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
7	**CB237-05-02**	**March 15, 2011**	**13:40**	**XRF Cup & 4 oz**	**Plastic & Glass**	**2**	**ICE**	**Soil**			**X**				
8	CB237-06-02	March 15, 2011	11:35	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
9	CB237-07-01	March 15, 2011	11:00	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil	x	x	x				SEIVE LEAD SAMPLE
10	CB237-07-02	March 15, 2011	11:05	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
11	CB237-08-01	March 15, 2011	10:15	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
12	CB237-08-02	March 15, 2011	10:20	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
13	CB237-05-02-FD	March 15, 2011	13:40	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
14	CB215-10-01	March 17, 2010	15:45	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil							
15	CB215-10-02	March 17, 2011	15:50	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil							
16	**CB214-12A-01**	**March 17, 2011**	**14:50**	**XRF Cup & 4 oz**	**Plastic & Glass**	**2**	**ICE**	**Soil**	x	x	x				SEIVE LEAD SAMPLE

Turnaround Time
7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Rich Rivers	*Date:* 3-21-11	*Time:* 1800	*1. Received By:*	*Date:*	*Time:*
2. Relinquished By	*Date:*	*Time:*	*2. Received By:*	*Date:*	
3. Relinquished By	*Date:*	*Time:*	*3. Received By:*	*Date:* 3/22/11	0930

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

T=3.5°C

11C217

[redacted]

Chain of Custody Record

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client CH2M HILL, Inc.	*Project Manager* John Ynfante			*Date* March 21, 2011	*Chain of Custody Number* 2 of 2
Address 14701 St. Mary's Lane, Suite 300	*Telephone Number* (281) 721-8546	*Fax Number* (281) 721-8401			
City/State/Zip Houston, TX 77079	*Site Contact:* John Ynfante	*PO Number:* Contact John Ynfante	*EMAX Control Number*		
Project Name Tar Creek OU4	*Carrier/Waybill Number* **794556344750**	*CH2M HILL Project Number:* 395950.CV.01			
Samplers: Various CH2M HILL personnel					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Sieved	Analysis: Zn	Analysis: Lum Only				Comments
17	CB048-17A-02	March 17, 2011	14:55	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
18	CB048-17A-01	March 17, 2011	13:40	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
19	**CB214-12A-02**	**March 17, 2011**	**14:55**	**XRF Cup & 4 oz**	**Plastic & Glass**	**2**	**ICE**	**Soil**	**x**	**x**	**x**				**SEIVE LEAD SAMPLE**
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil	x	x	X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			X				
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil							
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil							
				XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil							

Turnaround Time

7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Rich Rieks	*Date:* 3-21-10	*Time:* 1800	*1. Received By:*	*Date:*	*Time:*
2. Relinquished By	*Date:*	*Time:*	*2. Received By:*	*Date:*	
3. Relinquished By	*Date:*	*Time:*	*3. Received By:*	*Date:* 3/22/11	0930

Comments

Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

1003

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11C217
☐ EMAX Courier		Recepient L-LUNA
☐ Client Delivery		Date 03-22-11
☑ Third Party FEDEX	794556344250	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 3.5 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ~~ID/COC ID~~	Discrepancy Code	Corrective Action Code
-17		B345	D3	R5, R6
14, 15			A1	R6

REVIEWS

Sample Labeling _____ Date 3/22/11

SRF _____ Date 3/22/11

PM LP for YC Date 3/22/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s), wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	Follow label
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	Inform client
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	_____		
C4	_____	H2	_____		

Linh Pham

From: John.Ynfante@CH2M.com
Sent: Tuesday, March 22, 2011 12:14 PM
To: Ye Myint
Cc: Linh Pham
Subject: RE: Rush samples for Tar Creek this week

Yeah probably so on that one sample. I asked him to reanalyze several samples and that was probably one of them.

Please analyze cadmium only for CB215-10-01 and CB215-10-02

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Tuesday, March 22, 2011 2:12 PM
To: Ynfante, John/HOU
Cc: Linh Pham
Subject: RE: Rush samples for Tar Creek this week

John,

Attached are the COCs for samples received today.

No analysis was marked for samples CB215-10-01 and CB215-10-02 in the COC. Please advise.
Also, sample (CB237-01-01 from your e-mail below) was not received. Perhaps, it's coming in another batch.
Ye
310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Monday, March 21, 2011 9:54 AM
To: Ye Myint
Subject: Rush samples for Tar Creek this week
Importance: High

Ye,

In the next day or two you will receive some more samples from Tar Creek. Please put a rush 3-day TAT for the following samples for zinc and cadmium:

CB237-01-01
CB214-12A-01
CB214-12A-02

From: (916) 747-2986
Richy Ricks
CH2M HILL
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Origin ID: SMFA

FedEx Express

J11151102250225

Ship Date: 21MAR11
ActWgt: 46.5 LB
CAD: 6300065/WBUS0200

Dims: 24 X 13 X 13 IN

Delivery Address Bar Code

Ref # 413831.cv.01/AAA00006605
Invoice #
PO #
Dept #

11C217

SHIP TO: (310) 618-8889

BILL SENDER

Sample Recieving
E MAX Laboratories, Inc.
1835 W. 205th Street

Torrance, CA 90501

TUE - 22 MAR A1
PRIORITY OVERNIGHT

TRK# 7945 5634 4750
0201

90 AVXA

90501
CA-US
LAX

50DG2/8DD9/7EFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METHOD 3050B/6010B
METALS BY TRACE ICP

SDG#: 11C217

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C217

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of nineteen (19) soil samples were received on 03/22/11 for Metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC047SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for C217-01M/S were within project QC limits.
In addition Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.
Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C217
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC047SB	1	NA	03/24/1116:41	03/23/1115:45	ID8C025105	ID8C025103	IPC047S	Method Blank
LCS1S	IPC047SL	1	NA	03/24/1116:44	03/23/1115:45	ID8C025106	ID8C025103	IPC047S	Lab Control Sample (LCS)
LCD1S	IPC047SC	1	NA	03/24/1116:47	03/23/1115:45	ID8C025107	ID8C025103	IPC047S	LCS Duplicate
CP094-S2-04-01AS	C217-01A	0.943	17.9	03/24/1116:50	03/23/1115:45	ID8C025108	ID8C025103	IPC047S	Analytical Spike Sample
CP094-S2-04-01	C217-01	0.943	17.9	03/24/1116:53	03/23/1115:45	ID8C025109	ID8C025103	IPC047S	Field Sample
CP094-S2-04-01DL	C217-01J	4.72	17.9	03/24/1116:56	03/23/1115:45	ID8C025110	ID8C025103	IPC047S	Diluted Sample
CP094-S2-04-01MS	C217-01M	0.952	17.9	03/24/1116:59	03/23/1115:45	ID8C025111	ID8C025103	IPC047S	Matrix Spike Sample (MS)
CP094-S2-04-01MSD	C217-01S	0.847	17.9	03/24/1117:02	03/23/1115:45	ID8C025112	ID8C025103	IPC047S	MS Duplicate (MSD)
CP091-17-01	C217-02	0.917	22.0	03/24/1117:06	03/23/1115:45	ID8C025113	ID8C025103	IPC047S	Field Sample
CP091-17-02	C217-03	0.909	21.8	03/24/1117:17	03/23/1115:45	ID8C025117	ID8C025115	IPC047S	Field Sample
CB237-04-01	C217-04	0.763	14.7	03/24/1117:20	03/23/1115:45	ID8C025118	ID8C025115	IPC047S	Field Sample
CB237-04-02	C217-05	0.885	17.3	03/24/1117:23	03/23/1115:45	ID8C025119	ID8C025115	IPC047S	Field Sample
CB237-05-01	C217-06	0.885	18.9	03/24/1117:26	03/23/1115:45	ID8C025120	ID8C025115	IPC047S	Field Sample
CB237-05-02	C217-07	0.709	19.2	03/24/1117:29	03/23/1115:45	ID8C025121	ID8C025115	IPC047S	Field Sample
CB237-06-02	C217-08	0.800	19.1	03/24/1117:31	03/23/1115:45	ID8C025122	ID8C025115	IPC047S	Field Sample
CB237-07-02	C217-10	0.794	18.1	03/24/1117:37	03/23/1115:45	ID8C025124	ID8C025115	IPC047S	Field Sample
CB237-08-01	C217-11	0.758	18.7	03/24/1117:40	03/23/1115:45	ID8C025125	ID8C025115	IPC047S	Field Sample
CB237-08-02	C217-12	0.730	16.4	03/24/1117:51	03/23/1115:45	ID8C025129	ID8C025127	IPC047S	Field Sample
CB237-05-02-FD	C217-13	0.870	19.3	03/24/1117:54	03/23/1115:45	ID8C025130	ID8C025127	IPC047S	Field Sample
CB215-10-01	C217-14	0.935	19.1	03/24/1117:57	03/23/1115:45	ID8C025131	ID8C025127	IPC047S	Field Sample
CB215-10-02	C217-15	0.943	18.3	03/24/1118:00	03/23/1115:45	ID8C025132	ID8C025127	IPC047S	Field Sample
CB048-17A-02	C217-17	0.980	17.3	03/24/1118:06	03/23/1115:45	ID8C025134	ID8C025127	IPC047S	Field Sample
CB048-17A-01	C217-18	0.980	17.1	03/24/1118:08	03/23/1115:45	ID8C025135	ID8C025127	IPC047S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/03/11 10:50
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CP094-S2-04-01	Date Analyzed:	03/24/11 16:53
Lab Samp ID:	C217-01	Dilution Factor:	0.943
Lab File ID:	ID8C025109	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	17.9
Calib. Ref.:	ID8C025103	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	4.31	1.15	0.230

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 15:10
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CP091-17-01	Date Analyzed:	03/24/11 17:06
Lab Samp ID:	C217-02	Dilution Factor:	0.917
Lab File ID:	ID8C025113	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	22.0
Calib. Ref.:	ID8C025103	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	4.05	1.18	0.235

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/06/11 15:15
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CP091-17-02	Date Analyzed:	03/24/11 17:17
Lab Samp ID:	C217-03	Dilution Factor:	0.909
Lab File ID:	ID8C025117	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	21.8
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.83	1.16	0.232

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 14:00
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-04-01	Date Analyzed:	03/24/11 17:20
Lab Samp ID:	C217-04	Dilution Factor:	0.763
Lab File ID:	ID8C025118	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	14.7
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	51.7	0.894	0.179

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 14:05
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-04-02	Date Analyzed:	03/24/11 17:23
Lab Samp ID:	C217-05	Dilution Factor:	0.885
Lab File ID:	ID8C025119	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	17.3
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	48.8	1.07	0.214

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 13:35
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-05-01	Date Analyzed:	03/24/11 17:26
Lab Samp ID:	C217-06	Dilution Factor:	0.885
Lab File ID:	ID8C025120	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	18.9
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	46.9	1.09	0.218

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 13:40
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-05-02	Date Analyzed:	03/24/11 17:29
Lab Samp ID:	C217-07	Dilution Factor:	0.709
Lab File ID:	ID8C025121	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	19.2
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	16.6	0.877	0.175

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 11:35
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-06-02	Date Analyzed:	03/24/11 17:31
Lab Samp ID:	C217-08	Dilution Factor:	0.800
Lab File ID:	ID8C025122	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	19.1
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.15	0.989	0.198

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 11:05
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-07-02	Date Analyzed:	03/24/11 17:37
Lab Samp ID:	C217-10	Dilution Factor:	0.794
Lab File ID:	ID8C025124	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	18.1
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.895J	0.969	0.194

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 10:15
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-08-01	Date Analyzed:	03/24/11 17:40
Lab Samp ID:	C217-11	Dilution Factor:	0.758
Lab File ID:	ID8C025125	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	18.7
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.05	0.932	0.186

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 10:20
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-08-02	Date Analyzed:	03/24/11 17:51
Lab Samp ID:	C217-12	Dilution Factor:	0.730
Lab File ID:	ID8C025129	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	16.4
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.13	0.873	0.175

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 13:40
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-05-02-FD	Date Analyzed:	03/24/11 17:54
Lab Samp ID:	C217-13	Dilution Factor:	0.870
Lab File ID:	ID8C025130	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	19.3
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	16.3	1.08	0.216

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 15:45
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB215-10-01	Date Analyzed:	03/24/11 17:57
Lab Samp ID:	C217-14	Dilution Factor:	0.935
Lab File ID:	ID8CD25131	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	19.1
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.600J	1.16	0.231

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 15:50
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB215-10-02	Date Analyzed:	03/24/11 18:00
Lab Samp ID:	C217-15	Dilution Factor:	0.943
Lab File ID:	ID8C025132	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	18.3
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.15	0.231

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 13:45
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB048-17A-02	Date Analyzed:	03/24/11 18:06
Lab Samp ID:	C217-17	Dilution Factor:	0.980
Lab File ID:	ID8C025134	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	17.3
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.15J	1.19	0.237

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 13:40
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB048-17A-01	Date Analyzed:	03/24/11 18:08
Lab Samp ID:	C217-18	Dilution Factor:	0.980
Lab File ID:	ID8C025135	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	17.1
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	18.3	1.18	0.236

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/23/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	MBLK1S	Date Analyzed:	03/24/11 16:41
Lab Samp ID:	IPC047SB	Dilution Factor:	1
Lab File ID:	ID8C025105	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	NA
Calib. Ref.:	ID8C025103	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC047SB	IPC047SL	IPC047SC		
LAB FILE ID:	ID8C025105	ID8C025106	ID8C025107		
DATIME EXTRCTD:	03/23/1115:45	03/23/1115:45	03/23/1115:45	DATE COLLECTED:	NA
DATIME ANALYZD:	03/24/1116:41	03/24/1116:44	03/24/1116:47	DATE RECEIVED:	03/23/11
PREP. BATCH:	IPC047S	IPC047S	IPC047S		
CALIB. REF:	ID8C025103	ID8C025103	ID8C025103		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.2	98	50	50.5	101	3	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	17.9
DILTN FACTR:	0.943	0.952	0.847		
SAMPLE ID:	CP094-S2-04-01				
CONTROL NO.:	C217-01	C217-01M	C217-01S		
LAB FILE ID:	ID8C025109	ID8C025111	ID8C025112		
DATIME EXTRCTD:	03/23/1115:45	03/23/1115:45	03/23/1115:45	DATE COLLECTED:	03/03/11 10:50
DATIME ANALYZD:	03/24/1116:53	03/24/1116:59	03/24/1117:02	DATE RECEIVED:	03/22/11
PREP. BATCH:	IPC047S	IPC047S	IPC047S		
CALIB. REF:	ID8C025103	ID8C025103	ID8C025103		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	4.31	58	58.5	93	51.6	52	93	12	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.9
DILUTION FACTOR:	0.943	4.72		
SAMPLE ID:	CP094-S2-04-01	CP094-S2-04-01DL		
EMAX SAMP ID:	C217-01	C217-01J		
LAB FILE ID:	ID8C025109	ID8C025110		
DATE EXTRACTED:	03/23/1115:45	03/23/1115:45	DATE COLLECTED:	03/03/11 10:50
DATE ANALYZED:	03/24/1116:53	03/24/1116:56	DATE RECEIVED:	03/22/11
PREP. BATCH:	IPC047S	IPC047S		
CALIB. REF:	ID8C025103	ID8C025103		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	4.31	4.10J	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.9
DILTN FACTR:	0.943	0.943		
SAMPLE ID:	CP094-S2-04-01			
CONTROL NO.:	C217-01	C217-01A		
LAB FILE ID:	ID8C025109	ID8C025108		
DATIME EXTRCTD:	03/23/1115:45	03/23/1115:45	DATE COLLECTED:	03/03/11 10:50
DATIME ANALYZD:	03/24/1116:53	03/24/1116:50	DATE RECEIVED:	03/22/11
PREP. BATCH:	IPC047S	IPC047S		
CALIB. REF:	ID8C025103	ID8C025103		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	4.31	57.4	57.9	93	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11C217
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPC047SB	1	NA	03/24/1116:41	03/23/1115:45	ID8C025105	ID8C025103	IPC047S	Method Blank
LCS1S	IPC047SL	1	NA	03/24/1116:44	03/23/1115:45	ID8C025106	ID8C025103	IPC047S	Lab Control Sample (LCS)
LCD1S	IPC047SC	1	NA	03/24/1116:47	03/23/1115:45	ID8C025107	ID8C025103	IPC047S	LCS Duplicate
CP094-S2-04-01AS	C217-01A	0.943	17.9	03/24/1116:50	03/23/1115:45	ID8C025108	ID8C025103	IPC047S	Analytical Spike Sample
CP094-S2-04-01	C217-01	0.943	17.9	03/24/1116:53	03/23/1115:45	ID8C025109	ID8C025103	IPC047S	Field Sample
CP094-S2-04-01DL	C217-01J	4.72	17.9	03/24/1116:56	03/23/1115:45	ID8C025110	ID8C025103	IPC047S	Diluted Sample
CB237-07-01	C217-09	0.917	19.6	03/24/1117:34	03/23/1115:45	ID8C025123	ID8C025115	IPC047S	Field Sample
CB214-12A-01	C217-16	0.952	18.7	03/24/1118:03	03/23/1115:45	ID8C025133	ID8C025127	IPC047S	Field Sample
CB214-12A-02	C217-19	0.935	19.8	03/24/1118:11	03/23/1115:45	ID8C025136	ID8C025127	IPC047S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 11:00
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB237-07-01	Date Analyzed:	03/24/11 17:34
Lab Samp ID:	C217-09	Dilution Factor:	0.917
Lab File ID:	ID8C025123	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	19.6
Calib. Ref.:	ID8C025115	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.39	1.14	0.228
Zinc	267	2.28	1.14

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 14:50
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB214-12A-01	Date Analyzed:	03/24/11 18:03
Lab Samp ID:	C217-16	Dilution Factor:	0.952
Lab File ID:	ID8C025133	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	18.7
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	19.0	1.17	0.234
Zinc	1320	2.34	1.17

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 14:55
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	CB214-12A-02	Date Analyzed:	03/24/11 18:11
Lab Samp ID:	C217-19	Dilution Factor:	0.935
Lab File ID:	ID8C025136	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	19.8
Calib. Ref.:	ID8C025127	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	21.5	1.17	0.233
Zinc	1360	2.33	1.17

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/23/11
SDG NO.	: 11C217	Date Extracted:	03/23/11 15:45
Sample ID:	MBLK1S	Date Analyzed:	03/24/11 16:41
Lab Samp ID:	IPC047SB	Dilution Factor:	1
Lab File ID:	ID8C025105	Matrix :	SOIL
Ext Btch ID:	IPC047S	% Moisture :	NA
Calib. Ref.:	ID8C025103	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC047SB	IPC047SL	IPC047SC		
LAB FILE ID:	ID8C025105	ID8C025106	ID8C025107		
DATIME EXTRCTD:	03/23/1115:45	03/23/1115:45	03/23/1115:45	DATE COLLECTED:	NA
DATIME ANALYZD:	03/24/1116:41	03/24/1116:44	03/24/1116:47	DATE RECEIVED:	03/23/11
PREP. BATCH:	IPC047S	IPC047S	IPC047S		
CALIB. REF:	ID8C0251D3	ID8C025103	ID8C025103		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	49.2	98	50	50.5	101	3	80-120	20
Zinc	ND	50	55.8	112	50	57.4	115	3	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.9
DILUTION FACTOR:	0.943	4.72		
SAMPLE ID:	CP094-S2-04-01	CP094-S2-04-01DL		
EMAX SAMP ID:	C217-01	C217-01J		
LAB FILE ID:	ID8C025109	ID8C025110		
DATE EXTRACTED:	03/23/1115:45	03/23/1115:45	DATE COLLECTED:	03/03/11 10:50
DATE ANALYZED:	03/24/1116:53	03/24/1116:56	DATE RECEIVED:	03/22/11
PREP. BATCH:	IPC047S	IPC047S		
CALIB. REF:	ID8C025103	ID8C025103		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	4.31	4.10J	NA	10
Zinc	557	528	5	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.9
DILTN FACTR:	0.943	0.943		
SAMPLE ID:	CP094-S2-04-01			
CONTROL NO.:	C217-01	C217-01A		
LAB FILE ID:	ID8C025109	I08C025108		
DATIME EXTRCTD:	03/23/1115:45	03/23/1115:45	DATE COLLECTED:	03/03/11 10:50
DATIME ANALYZD:	03/24/1116:53	03/24/1116:50	DATE RECEIVED:	03/22/11
PREP. BATCH:	IPC047S	IPC047S		
CALIB. REF:	ID8C025103	I08C025103		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	4.31	57.4	57.9	93	75-125
Zinc	557	57.4	598	71*	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IPC047S
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		90 °C

Standards	ID	Amount Added (ml)
LCS-1	SMIA-13-01-28	.5
LCS-2	SMIA-13-01-29	.5
LCS-3	SMIA-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SWIA-04-329	10
HCl	SWIA-04-333	5+5
H_2O_2	SWIA-04-301	10
HNO3(1:1)	SMSB-02-149	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SMSA-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 11124 1117

Prepared By: HF
Standard Added By: HF Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

SEQUENCE FILE : ID8C025

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C025001	Blank	11:40	03/24/11	1.000
ID8C025002	S20	11:43	03/24/11	1.000
ID8C025003	S21	11:46	03/24/11	1.000
ID8C025004	S22	11:49	03/24/11	1.000
ID8C025005	S23	11:52	03/24/11	1.000
ID8C025006	S24	11:55	03/24/11	1.000
ID8C025007	S25	11:58	03/24/11	1.000
ID8C025008	S26	12:00	03/24/11	1.000
ID8C025009	S27	12:03	03/24/11	1.000
ID8C025010	S28	12:07	03/24/11	1.000
ID8C025011	S29	12:09	03/24/11	1.000
ID8C025012	S30	12:12	03/24/11	1.000
ID8C025013	S31	12:15	03/24/11	1.000
ID8C025014	ICV	12:18	03/24/11	1.000
ID8C025015	ICB	12:20	03/24/11	1.000
ID8C025016	MRLC2401	12:23	03/24/11	1.000
ID8C025017	MRLC2402	12:26	03/24/11	1.000
ID8C025018	ICSA1	12:29	03/24/11	1.000
ID8C025019	ICSAB1	12:32	03/24/11	1.000
ID8C025020	CCV1	12:35	03/24/11	1.000
ID8C025021	CCB1	12:37	03/24/11	1.000
ID8C025022	IPC045WB	12:40	03/24/11	1.000
ID8C025023	IPC045WL	12:43	03/24/11	1.000
ID8C025024	IPC045WC	12:46	03/24/11	1.000
ID8C025025	TXC007SB	12:48	03/24/11	1.000
ID8C025026	C540-01A	12:51	03/24/11	1.000
ID8C025027	C540-01	12:54	03/24/11	1.000
ID8C025028	C540-01J	12:57	03/24/11	5.000
ID8C025029	C540-01M	13:00	03/24/11	1.000
ID8C025030	C540-01S	13:03	03/24/11	1.000
ID8C025031	Blank	13:06	03/24/11	1.000
ID8C025032	CCV2	13:09	03/24/11	1.000
ID8C025033	CCB2	13:11	03/24/11	1.000
ID8C025034	C539-03	13:14	03/24/11	1.000
ID8C025035	C539-04	13:17	03/24/11	1.000
ID8C025036	C539-05	13:20	03/24/11	1.000
ID8C025037	C523-08	13:23	03/24/11	1.000
ID8C025038	Blank	13:25	03/24/11	1.000
ID8C025039	CCV3	13:28	03/24/11	1.000
ID8C025040	CCB3	13:31	03/24/11	1.000
ID8C025041	IPC048SB	13:34	03/24/11	1.000
ID8C025042	IPC048SL	13:37	03/24/11	1.000
ID8C025043	IPC048SC	13:39	03/24/11	1.000
ID8C025044	C546-01A	13:42	03/24/11	1.000
ID8C025045	C546-01	13:44	03/24/11	1.000
ID8C025046	C546-01J	13:47	03/24/11	5.000
ID8C025047	C546-01M	13:50	03/24/11	1.000
ID8C025048	C546-01S	13:53	03/24/11	1.000
ID8C025049	Blank	13:55	03/24/11	1.000
ID8C025050	CCV4	13:58	03/24/11	1.000
ID8C025051	CCB4	14:01	03/24/11	1.000
ID8C025052	C562-01T	14:04	03/24/11	10.00
ID8C025053	C562-02T	14:07	03/24/11	10.00
ID8C025054	C562-03T	14:09	03/24/11	10.00

ID8C025055	Blank	14:12	03/24/11	1.000
ID8C025056	CCV5	14:15	03/24/11	1.000
ID8C025057	CCB5	14:18	03/24/11	1.000
ID8C025058	IPC043WQ	14:21	03/24/11	1.000
ID8C025059	IPC043WX	14:23	03/24/11	1.000
ID8C025060	IPC043WY	14:26	03/24/11	1.000
ID8C025061	C102-05A	14:29	03/24/11	1.000
ID8C025062	C102-05W	14:31	03/24/11	1.000
ID8C025063	C102-05J	14:34	03/24/11	5.000
ID8C025064	C526-01T	14:37	03/24/11	10.00
ID8C025065	Blank	14:40	03/24/11	1.000
ID8C025066	ICSA2	14:43	03/24/11	1.000
ID8C025067	ICSAB2	14:46	03/24/11	1.000
ID8C025068	CCV6	14:48	03/24/11	1.000
ID8C025069	CCB6	14:51	03/24/11	1.000
ID8C025070	IPC044WB	14:54	03/24/11	1.000
ID8C025071	IPC044WL	14:57	03/24/11	1.000
ID8C025072	IPC044WC	14:59	03/24/11	1.000
ID8C025073	C164-08A	15:02	03/24/11	1.000
ID8C025074	C164-08	15:05	03/24/11	1.000
ID8C025075	C164-08J	15:08	03/24/11	5.000
ID8C025076	C164-08M	15:10	03/24/11	1.000
ID8C025077	C164-08S	15:13	03/24/11	1.000
ID8C025078	C546-02	15:16	03/24/11	1.000
ID8C025079	Blank	15:19	03/24/11	1.000
ID8C025080	CCV7	15:22	03/24/11	1.000
IDBC025081	CC87	15:25	03/24/11	1.000
ID8C025082	C164-06	15:28	03/24/11	1.000
ID8C025083	C164-09	15:31	03/24/11	1.000
ID8C0250B4	C164-10	15:34	03/24/11	1.000
ID8C025085	C152-02	15:37	03/24/11	1.000
ID8C025086	C152-03	15:40	03/24/11	1.000
ID8C025087	C155-01	15:43	03/24/11	1.000
ID8C025088	C155-02	15:47	03/24/11	1.000
ID8C025089	C155-03	15:50	03/24/11	1.000
ID8C025090	Blank	15:53	03/24/11	1.000
ID8C025091	CCV8	15:57	03/24/11	1.000
ID8C025092	CCB8	16:00	03/24/11	1.000
ID8C025093	C161-05	16:03	03/24/11	1.000
ID8C025094	C161-09	16:06	03/24/11	1.000
ID8C025095	C161-11	16:09	03/24/11	1.000
ID8C025096	C161-12	16:12	03/24/11	1.000
ID8C025097	C163-04	16:16	03/24/11	1.000
ID8C025098	C163-05	16:19	03/24/11	1.000
ID8C025099	C163-10	16:22	03/24/11	1.000
ID8C025100	Blank	16:25	03/24/11	1.000
ID8C025101	ICSA3	16:28	03/24/11	1.000
ID8C025102	ICSAB3	16:32	03/24/11	1.000
ID8C025103	CCV9	16:35	03/24/11	1.000
ID8C025104	CCB9	16:38	03/24/11	1.000
ID8C025105	IPC047SB	16:41	03/24/11	1.000
ID8C025106	IPC047SL	16:44	03/24/11	1.000
ID8C025107	IPC047SC	16:47	03/24/11	1.000
ID8C025108	C217-01A	16:50	03/24/11	1.000
ID8C025109	C217-01	16:53	03/24/11	1.000
ID8C025110	C217-01J	16:56	03/24/11	5.000
ID8C025111	C217-01M	16:59	03/24/11	1.000

ID8C025112	C217-01S	17:02	03/24/11	1.000
ID8C025113	C217-02	17:06	03/24/11	1.000
ID8C025114	Blank	17:09	03/24/11	1.000
ID8C025115	CCV10	17:12	03/24/11	1.000
ID8C025116	CCB10	17:14	03/24/11	1.000
ID8C025117	C217-03	17:17	03/24/11	1.000
ID8C025118	C217-04	17:20	03/24/11	1.000
ID8C025119	C217-05	17:23	03/24/11	1.000
ID8C025120	C217-06	17:26	03/24/11	1.000
ID8C025121	C217-07	17:29	03/24/11	1.000
ID8C025122	C217-08	17:31	03/24/11	1.000
ID8C025123	C217-09	17:34	03/24/11	1.000
ID8C025124	C217-10	17:37	03/24/11	1.000
ID8C025125	C217-11	17:40	03/24/11	1.000
ID8C025126	Blank	17:43	03/24/11	1.000
ID8C025127	CCV11	17:46	03/24/11	1.000
ID8C025128	CCB11	17:48	03/24/11	1.000
ID8C025129	C217-12	17:51	03/24/11	1.000
ID8C025130	C217-13	17:54	03/24/11	1.000
ID8C025131	C217-14	17:57	03/24/11	1.000
ID8C025132	C217-15	18:00	03/24/11	1.000
ID8C025133	C217-16	18:03	03/24/11	1.000
ID8C025134	C217-17	18:06	03/24/11	1.000
ID8C025135	C217-18	18:08	03/24/11	1.000
ID8C025136	C217-19	18:11	03/24/11	1.000
ID8C025137	Blank	18:14	03/24/11	1.000
ID8C025138	CCV12	18:17	03/24/11	1.000
ID8C025139	CCB12	18:20	03/24/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : TD8C025 DATE : 03/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	108	101	108	100	102	99	99	103	98	97	103	98	97	107	94	93	102	99	99	108	103	106	99	94	102	100	98	107
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC2401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC2402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	96	----	----	----	93	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	98	102	106	106	100	95	93	95	94	95	109	92	93	113	95	91	103	98	106	106	111	112	98	82	97	98	96	106
CCV1	108	100	107	100	102	99	97	103	98	98	103	98	97	108	94	93	102	99	100	106	103	106	100	92	101	100	97	107
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC045WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC045WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC045WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC007SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	109	100	107	101	102	99	97	101	98	97	105	97	97	109	93	93	103	100	100	107	104	107	101	92	100	100	97	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C523-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	108	101	108	101	103	99	100	103	99	96	103	99	97	107	95	94	102	99	99	108	104	106	99	94	100	101	98	108
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	109	99	106	101	103	100	98	103	99	96	104	97	97	108	94	94	102	99	101	106	105	107	101	92	100	100	97	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C562-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C562-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C562-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	109	100	107	101	102	100	98	102	98	97	104	98	97	108	94	93	103	100	100	107	104	106	100	93	101	100	98	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC043WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC043WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC043WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	98	----	----	----	----	----	----	93	----	----	----	91	----	----	93	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA82	99	100	106	107	100	94	93	94	94	93	112	92	93	115	94	91	103	98	107	106	113	113	100	82	96	98	96	105
CCV6	109	100	107	101	102	100	98	101	98	96	105	97	97	109	93	93	103	100	100	108	105	107	101	93	100	100	97	106
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	110	100	107	102	102	100	97	101	98	97	106	97	97	109	93	93	103	100	101	107	104	107	101	92	100	100	97	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C152-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C152-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	109	100	106	102	102	100	96	101	97	97	106	96	97	110	93	93	103	100	102	107	105	108	101	92	101	101	97	106
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	99	----	----	----	----	----	----	94	----	----	----	91	----	----	93	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB3	99	100	106	107	100	94	92	93	94	93	112	91	93	115	92	90	103	98	107	106	112	113	100	81	96	97	95	104
CCV9	109	101	107	102	102	100	97	101	98	97	106	97	97	109	93	93	104	100	101	107	104	107	100	93	101	100	97	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C217-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	109	100	107	101	102	100	98	102	99	96	105	98	97	109	93	93	103	100	101	108	105	107	100	93	100	100	97	106
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	111*	101	108	102	103	100	99	102	99	96	106	98	97	110	94	93	103	100	101	108	105	108	101	94	100	101	98	107
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	110	100	109	102	103	102	101	102	101	94	107	98	97	110	94	94	102	100	102	109	107	108	102	94	98	101	98	107
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C025 (WATER) DATE : 03/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.0	.830	2.24	.150	.150	3.86	.150	-14.5	.380	-.090	.400	1.95	.020	.770	1.79	.280	.570	.030	98.0	.050	.030	32.3	.120	.800	.340	.120	.110	-.450
MRLC2401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC2402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.84	-4.62	.940	-.050	-18.8	.940	----	-.250	.590	1.27	----	3.42	6.14	----	1.48	-1.31	-.340	4.69	-1.90	.030	20.7	1.28	1.80	1.54	3.99	.760	-1.11
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	67.7	.760	.350	.610	.130	3.71	.220	5.18	.490	.040	.630	16.2	.620	.720	7.29	.330	.480	.260	124	.360	.210	50.9	.100	1.06	-.200	.260	.220	.420
IPC045WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC045WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC045WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC007SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	20.1	1.15	1.01	.720	.190	3.43	.200	-12.7	.340	-.080	.530	2.96	.510	.650	5.55	.330	.620	.020	120	.060	.110	113	.150	.040	.210	-.060	.190	-.660
C539-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C523-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	11.6	1.06	.850	.210	.190	3.16	.090	-11.5	.190	.110	.090	.970	.210	.830	5.44	.280	.480	.040	88.3	1.08	.080	103	.090	.860	-.410	.130	.100	-.720
IPC048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	13.3	.840	.840	.160	.120	4.32	.130	-9.73	.270	-.030	.310	-1.14	.410	.060	6.88	.290	.470	-.090	59.3	.490	.060	80.9	.050	.720	-.210	.160	.040	-.660
C562-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C562-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C562-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.7	.190	2.06	.210	.140	3.40	.170	-17.0	.330	.160	.240	1.31	.090	610	3.87	.330	.480	.090	36.6	-.060	.090	66.9	.040	.820	.240	.090	.170	-.920
IPC043WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC043WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC043WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	5.22	-.600	1.57	-.030	-21.9	1.07	----	.030	.860	1.14	----	2.39	5.79	----	1.85	-1.35	-.020	-41.6	.080	.080	78.6	1.77	1.88	2.16	3.65	1.07	6.20
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	12.8	1.03	1.24	.050	.070	2.85	.050	-15.7	.020	.110	.230	-.520	440	.810	2.76	.180	.430	-.100	62.9	.050	.010	56.2	.040	1.10	-.130	.170	.150	-1.10
IPC044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	19.1	.460	1.50	.210	.220	4.45	.140	-19.1	.350	-.040	.500	2.48	.080	.510	7.82	.420	.440	.000	113	1.49	.110	130	.100	.670	-.310	.160	.290	-1.56
C164-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C152-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C152-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	26.1	.670	-.260	.230	.220	3.47	.170	-24.0	.500	-.080	.390	2.39	.600	.370	-.370	.380	.440	.040	75.2	-.100	.010	123	.150	.700	-.030	.230	.240	-1.70
C161-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	----	6.21	-2.90	1.23	-.060	-23.2	1.11	----	-.210	.770	1.27	----	2.55	6.04	----	1.58	-1.41	-.090	-12.1	.880	-.020	214	1.58	.830	1.53	3.77	.940	.260
ICSAB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	48.1	.310	.940	.110	.090	3.00	.200	-26.1	.340	-.070	.490	15.9	.590	.840	-3.57	.260	.590	.110	71.4	.900	.050	86.6	.020	.620	.050	-.010	.180	-1.63
IPC047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C217-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	15.3	.860	1.57	.110	.140	2.63	.130	-29.0	.230	-.030	.350	-.710	.690	.530	-5.18	.320	.480	.010	55.9	.290	.060	44.8	.060	-.150	-.330	.030	.120	-1.85
C217-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	18.3	.640	2.39	.040	.130	2.54	.130	-31.3	.280	.070	.290	4.02	.570	.980	5.27	.290	.530	.270	29.6	.120	.090	23.2	.070	.940	-.120	.190	.120	-.780
C217-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	27.1	.180	.410	.220	.190	2.59	.350	-21.0	.510	.130	.470	.740	.620	.830	2.48	.220	.800	.290	31.5	.380	.120	19.4	.070	.510	-.390	.080	.300	-.680

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C025 (SOIL) DATE : 03/24/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.0	.830	2.24	.150	.150	3.86	.150	-14.5	.380	-.090	.400	1.95	.020	.770	1.79	.280	.570	.030	98.0	.050	.030	32.3	.120	.800	.340	.120	.110	-.450
MRLC2401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC2402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.84	-4.62	.940	-.050	-18.8	.940	----	-.250	.590	1.27	----	3.42	6.14	----	1.48	-1.31	-.340	4.69	-1.90	.030	20.7	1.28	1.80	1.54	3.99	.760	-1.11
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	67.7	.760	.350	.610	.130	3.71	.220	5.18	.490	.040	.630	16.2	.620	.720	7.29	.330	.480	.260	124	.360	.210	50.9	.100	1.06	-.200	.260	.220	.420
IPC045WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC045WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC045WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXC007SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C540-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	20.1	1.15	1.01	.720	.190	3.43	.200	-12.7	.340	-.080	.530	2.96	.510	.650	5.55	.330	.620	.020	120	.060	.110	113	.150	.040	.210	-.060	.190	-.660
C539-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C523-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	11.6	1.06	.850	.210	.190	3.16	.090	-11.5	.190	.110	.090	.970	210	.830	5.44	.280	.480	.040	88.3	1.08	.080	103	.090	.860	-.410	.130	.100	-.720
IPC048SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC048SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC048SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	13.3	.840	.840	.160	.120	4.32	.130	-9.73	.270	-.030	.310	-1.14	.410	.060	6.88	.290	.470	-.090	59.3	.490	.060	80.9	.050	.720	-.210	.160	.040	-.660
C562-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C562-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C562-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	15.7	.190	2.06	.210	.140	3.40	.170	-17.0	.330	.160	.240	1.31	.090	.610	3.87	.330	.480	.090	36.6	-.060	.090	66.9	.040	.820	.240	.090	.170	-.920
IPC043WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC043WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC043WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C102-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C526-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA2	----	5.22	-.600	1.57	-.030	-21.9	1.07	----	.030	.860	1.14	----	2.39	5.79	----	1.85	-1.35	.020	-41.6	.080	.080	78.6	1.77	1.88	2.16	3.65	1.07	6.20
ICSAB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	12.8	1.03	1.24	.050	.070	2.85	.050	-15.7	.020	.110	.230	-.520	.440	.810	2.76	.180	.430	-.100	62.9	.050	.010	56.2	.040	1.10	-.130	.170	.150	-1.10
IPC044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C546-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	19.1	.460	1.50	.210	.220	4.45	.140	-19.1	.350	-.040	.500	2.48	.080	.510	7.82	.420	.440	.000	113	1.49	.110	130	.100	.670	-.310	.160	.290	-1.56
C164-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C164-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C152-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C152-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C155-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	26.1	.670	-.260	.230	.220	3.47	.170	-24.0	.500	-.080	.390	2.39	.600	.370	-.370	.380	.440	.040	75.2	-.100	.010	123	.150	.700	-.030	.230	.240	-1.70
C161-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C161-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C163-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA3	----	6.21	-2.90	1.23	-.060	-23.2	1.11	----	-.210	.770	1.27	----	2.55	6.04	----	1.58	-1.41	-.090	-12.1	.880	-.020	214	1.58	.830	1.53	3.77	.940	.260
ICSAB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	48.1	.310	.940	.110	.090	3.00	.200	-26.1	.340	-.070	.490	15.9	.590	.840	-3.57	.260	.590	.110	71.4	.900	.050	86.6	.020	.620	.050	-.010	.180	-1.63
IPC047SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC047SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC047SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

C217-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	15.3	.860	1.57	.110	.140	2.63	.130	-29.0	.230	-.030	.350	-.710	.690	.530	-5.18	.320	.480	-.010	55.9	.290	.060	44.8	.060	-.150	-.330	.030	.120	-1.85
C217-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	18.3	.640	2.39	.040	.130	2.54	.130	-31.3	.280	.070	.290	4.02	.570	.980	5.27	.290	.530	.270	29.6	.120	.090	23.2	.070	.940	-.120	.190	.120	-.780
C217-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	27.1	.180	.410	.220	.190	2.59	.350	-21.0	.510	.130	.470	.740	.620	.830	2.48	.220	.800	.290	31.5	.380	120	19.4	.070	.510	-.390	.080	.300	-.680

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/24/11 11:40

End Date: 3/24/11 18:20

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8C025

Analytical Sequence: S-11C6010(V29)

Method File: 11C6010(V29)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-4505	S30	SM1B14-4201
S1	NA	S31	4202
S2		ICV	2701
S3		CCV	3805
S4		ICSA	4602
S5		ICSAB	4601
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B14-4109
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-3102		
S21	3702		
S22	3703		
S23	3704		
S24	4001		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Comments:

- C1B4-06 Na7MR
- C1B4-10 Needs ~~at~~ rerun. 7H 3/24/11 ~~RAH~~
  ↑ Na sample ran before
- CCB7, CCB8 Na 73X IDL. Associated SDG 11C1B4 detected >10X blank concentration levels.
- CCB7, CCB8 Be 73X IDL, <MDL. However associated SDG's 11C1B4 & 11C5H6 detected ND for Be.
  ∴ No corrective action.

Analyzed By: 7H

Date: 3/24/11

7045

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPC047S01	IPC047SB	1	g	3/23/11 14:01	100	1	100	1	
11IPC047S02	IPC047SL	1	g	3/23/11 14:01	100	1	100	1	
11IPC047S03	IPC047SC	1	g	3/23/11 14:01	100	1	100	1	
11IPC047S04	C217-01	1.06	g	3/23/11 14:03	100	1	100	0.943	
11IPC047S05	C217-01M	1.05	g	3/23/11 14:04	100	1	100	0.952	
11IPC047S06	C217-01S	1.18	g	3/23/11 14:04	100	1	100	0.847	
11IPC047S07	C217-02	1.09	g	3/23/11 14:06	100	1	100	0.917	
11IPC047S08	C217-03	1.1	g	3/23/11 14:08	100	1	100	0.909	
11IPC047S09	C217-04	1.31	g	3/23/11 14:10	100	1	100	0.763	
11IPC047S10	C217-05	1.13	g	3/23/11 14:11	100	1	100	0.885	
11IPC047S11	C217-06	1.13	g	3/23/11 14:12	100	1	100	0.885	
11IPC047S12	C217-07	1.41	g	3/23/11 14:14	100	1	100	0.709	
11IPC047S13	C217-08	1.25	g	3/23/11 14:15	100	1	100	0.8	
11IPC047S14	C217-09	1.09	g	3/23/11 14:17	100	1	100	0.917	
11IPC047S15	C217-10	1.26	g	3/23/11 14:18	100	1	100	0.794	
11IPC047S16	C217-11	1.32	g	3/23/11 14:19	100	1	100	0.758	
11IPC047S17	C217-12	1.37	g	3/23/11 14:20	100	1	100	0.73	
11IPC047S18	C217-13	1.15	g	3/23/11 14:23	100	1	100	0.87	
11IPC047S19	C217-14	1.07	g	3/23/11 14:25	100	1	100	0.935	
11IPC047S20	C217-15	1.06	g	3/23/11 14:26	100	1	100	0.943	
11IPC047S21	C217-16	1.05	g	3/23/11 14:28	100	1	100	0.952	
11IPC047S22	C217-17	1.02	g	3/23/11 14:29	100	1	100	0.98	
11IPC047S23	C217-18	1.02	g	3/23/11 14:31	100	1	100	0.98	
11IPC047S24	C217-19	1.07	g	3/23/11 14:32	100	1	100	0.935	

HF 3/23/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 3/23/11 15:45 Prepared By: HF

☒ Digestion Ended @ 3/23/11 17:45 Checked By:

Comments: Date

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11C217

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of three (3) soil samples were received on 03/22/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPC051SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.
Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Samples were oven-dried and pass through sieve # 60 prior to digestion

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO : 11C217
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep Batch	Notes
MBLK1S	IPC051SB	1	NA	03/25/1111:43	03/24/1116:16	ID8C026022	ID8C026020	IPC051S	Method Blank
LCS1S	IPC051SL	1	NA	03/25/1111:46	03/24/1116:16	ID8C026023	ID8C026020	IPC051S	Lab Control Sample (LCS)
LCD1S	IPC051SC	1	NA	03/25/1111:48	03/24/1116:16	ID8C026024	ID8C026020	IPC051S	LCS Duplicate
IS-4AS	C221-02A	0.990	18.0	03/25/1111:51	03/24/1116:16	ID8C026025	ID8C026020	IPC051S	Analytical Spike Sample
IS-4	C221-02	0.990	18.0	03/25/1111:54	03/24/1116:16	ID8C026026	ID8C026020	IPC051S	Field Sample
IS-4DL	C221-02J	4.95	18.0	03/25/1111:56	03/24/1116:16	ID8C026027	ID8C026020	IPC051S	Diluted Sample
CB237-07-01	C217-09	0.847	NA	03/25/1112:29	03/24/1116:16	ID8C026039	ID8C026032	IPC051S	Field Sample
CB214-12A-02	C217-19	0.952	NA	03/25/1112:35	03/24/1116:16	ID8C026041	ID8C026032	IPC051S	Field Sample
CB214-12A-01	C217-16T	7.69	NA	03/25/1112:49	03/24/1116:16	ID8C026042	ID8C026032	IPC051S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/15/11 11:00
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/24/11 16:16
Sample ID:	CB237-07-01	Date Analyzed:	03/25/11 12:29
Lab Samp ID:	C217-09	Dilution Factor:	0.847
Lab File ID:	ID8C026039	Matrix :	SOIL
Ext Btch ID:	IPC051S	% Moisture :	NA
Calib. Ref.:	ID8C026032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	45.9	0.847	0.254

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 14:50
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/24/11 16:16
Sample ID:	CB214-12A-01	Date Analyzed:	03/25/11 12:49
Lab Samp ID:	C217-16T	Dilution Factor:	7.69
Lab File ID:	ID8C026042	Matrix :	SOIL
Ext Btch ID:	IPC051S	% Moisture :	NA
Calib. Ref.:	ID8C026032	Instrument ID :	EMAXID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	39.8	7.69	2.31

7050

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	03/17/11 14:55
Project	: TAR CREEK OU4	Date Received:	03/22/11
SDG NO.	: 11C217	Date Extracted:	03/24/11 16:16
Sample ID:	CB214-12A-02	Date Analyzed:	03/25/11 12:35
Lab Samp ID:	C217-19	Dilution Factor:	0.952
Lab File ID:	ID8C026041	Matrix :	SOIL
Ext Btch ID:	IPC051S	% Moisture :	NA
Calib. Ref.:	ID8C026032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	36.7	0.952	0.286

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	03/24/11
SDG NO.	: 11C217	Date Extracted:	03/24/11 16:16
Sample ID:	MBLK1S	Date Analyzed:	03/25/11 11:43
Lab Samp ID:	IPC051SB	Dilution Factor:	1
Lab File ID:	ID8C026022	Matrix :	SOIL
Ext Btch ID:	IPC051S	% Moisture :	NA
Calib. Ref.:	ID8C026020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPC051SB	IPC051SL	IPC051SC		
LAB FILE ID:	ID8C026022	ID8C026023	ID8C026024		
DATIME EXTRCTD:	03/24/1116:16	03/24/1116:16	03/24/1116:16	DATE COLLECTED:	NA
DATIME ANALYZD:	03/25/1111:43	03/25/1111:46	03/25/1111:48	DATE RECEIVED:	03/24/11
PREP. BATCH:	IPC051S	IPC051S	IPC051S		
CALIB. REF	ID8C026020	ID8C026020	ID8C026020		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	49.9	100	50	49.6	99	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.0
DILUTION FACTOR:	0.990	4.95		
SAMPLE ID:	IS-4	IS-4DL		
EMAX SAMP ID:	C221-02	C221-02J		
LAB FILE ID:	ID8C026026	ID8C026027		
DATE EXTRACTED:	03/24/1116:16	03/24/1116:16	DATE COLLECTED:	03/21/11 12:10
DATE ANALYZED:	03/25/1111:54	03/25/1111:56	DATE RECEIVED:	03/22/11
PREP. BATCH:	IPC051S	IPC051S		
CALIB. REF:	ID8C026020	ID8C026020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	11.0	10.9	1	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11C217
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	18.0
DILTN FACTR:	0.990	0.990		
SAMPLE ID:	IS-4			
CONTROL NO.:	C221-02	C221-02A		
LAB FILE ID:	ID8C026026	ID8C026025		
DATIME EXTRCTD:	03/24/1116:16	03/24/1116:16	DATE COLLECTED:	03/21/11 12:10
DATIME ANALYZD:	03/25/1111:54	03/25/1111:51	DATE RECEIVED:	03/22/11
PREP. BATCH:	IPC051S	IPC051S		
CALIB. REF:	ID8C026020	ID8C026020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	11	60.4	70.3	98	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 3/25/11 10:43

End Date: 3/25/11 13:00

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments: TH 3/25/11

- C217-16 ~~@~~ Fe >LDR. Since Fe interfers w/ Pb, sample needs dilution 5X TH 3/25/11
- CSUS-01 ran ~~@1X~~ due to yellow color. Based on dilution result, @1X, Fe would have been >LDR.

Book #: AD8-018

Instrument No.: D8

Analytical Batch: 1D8C026

Analytical Sequence: S-11C6010 (V30)

Method File: 11C6010 (V30)

Database: EMAX13

	STANDARDS ID		STANDARDS ID
S0	SMIB1144505	S30	SMIB1144201
S1	NA	S31	4202
S2		ICV	2701
S3		CCV	3805
S4		ICSA	4602
S5		ICSAB	4601
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SMIB144109
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SMIB1431-02		
S21	3702		
S22	3703		
S23	3704		
S24	40-01		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	40-04		

Analyzed By: TH

Date: 3/25/11

SEQUENCE FILE : ID8C026

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8C026001	Blank	10:43	03/25/11	1.000
ID8C026002	S20	10:46	03/25/11	1.000
ID8C026003	S21	10:48	03/25/11	1.000
ID8C026004	S22	10:51	03/25/11	1.000
ID8C026005	S23	10:54	03/25/11	1.000
ID8C026006	S24	10:57	03/25/11	1.000
ID8C026007	S25	11:00	03/25/11	1.000
ID8C026008	S26	11:03	03/25/11	1.000
ID8C026009	S27	11:06	03/25/11	1.000
ID8C026010	S28	11:09	03/25/11	1.000
ID8C026011	S29	11:12	03/25/11	1.000
ID8C026012	S30	11:15	03/25/11	1.000
ID8C026013	S31	11:18	03/25/11	1.000
ID8C026014	ICV	11:20	03/25/11	1.000
ID8C026015	ICB	11:23	03/25/11	1.000
ID8C026016	MRLC2501	11:26	03/25/11	1.000
ID8C026017	MRLC2502	11:29	03/25/11	1.000
ID8C026018	ICSA1	11:31	03/25/11	1.000
ID8C026019	ICSAB1	11:34	03/25/11	1.000
ID8C026020	CCV1	11:37	03/25/11	1.000
ID8C026021	CCB1	11:40	03/25/11	1.000
ID8C026022	IPC051SB	11:43	03/25/11	1.000
ID8C026023	IPC051SL	11:46	03/25/11	1.000
ID8C026024	IPC051SC	11:48	03/25/11	1.000
ID8C026025	C221-02A	11:51	03/25/11	1.000
ID8C026026	C221-02	11:54	03/25/11	1.000
ID8C026027	C221-02J	11:56	03/25/11	5.000
ID8C026028	C221-02M	11:59	03/25/11	1.000
ID8C026029	C221-02S	12:02	03/25/11	1.000
ID8C026030	C221-01	12:04	03/25/11	1.000
ID8C026031	Blank	12:07	03/25/11	1.000
ID8C026032	CCV2	12:10	03/25/11	1.000
ID8C026033	CCB2	12:13	03/25/11	1.000
ID8C026034	C259-01	12:16	03/25/11	1.000
ID8C026035	C259-02	12:18	03/25/11	1.000
ID8C026036	C259-03	12:21	03/25/11	1.000
ID8C026037	C539-01	12:24	03/25/11	1.000
ID8C026038	C545-01T	12:26	03/25/11	5.000
ID8C026039	C217-09	12:29	03/25/11	1.000
ID8C026040	C217-16	12:32	03/25/11	1.000
ID8C026041	C217-19	12:35	03/25/11	1.000
ID8C026042	C217-16T	12:49	03/25/11	10.00
ID8C026043	Blank	12:52	03/25/11	1.000
ID8C026044	CCV3	12:54	03/25/11	1.000
ID8C026045	CCB3	12:57	03/25/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8C026 DATE : 03/25/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	96	104	99	102	98	94	102	97	95	102	98	97	106	95	92	100	99	99	103	102	106	98	92	96	100	97	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC2501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC2502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	99	----	----	----	----	----	----	96	----	----	----	93	----	----	96	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	100	102	106	105	100	96	90	94	94	96	109	93	94	113	95	90	104	98	106	106	111	111	98	83	98	98	97	105
CCV1	107	102	107	99	101	99	96	101	97	98	102	98	97	106	94	91	102	99	98	107	103	105	98	95	101	100	97	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC051SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC051SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC051SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	107	101	105	99	101	98	93	102	97	100	102	97	98	106	94	91	103	99	99	105	102	105	98	92	103	100	98	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C259-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C259-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C259-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C545-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-16T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	101	104	99	100	97	91	102	95	101	101	97	98	106	94	90	104	100	98	105	101	105	97	92	104	100	98	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8C026 (SOIL) DATE : 03/25/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.1	1.79	.760	.090	.130	4.64	.120	-35.8	.240	.120	.330	1.59	-.160	.320	4.87	.300	.580	.280	72.1	.350	.080	25.2	.070	1.44	.030	-.160	.340	-1.90
MRLC2501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLC2502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	7.68	-3.93	1.01	-.080	-12.2	-.930	----	-.010	.980	1.19	----	.760	5.72	----	1.64	-1.13	.130	-32.0	-1.12	.300	14.0	1.22	2.15	2.16	3.74	.630	-.090
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	55.7	1.14	.540	.020	.080	4.05	.150	-2.30	.240	.030	.410	23.8	-.250	.480	19.9	.190	.660	.170	96.0	1.26	.110	41.1	.070	.410	-.060	-.020	.320	-1.70
IPC051SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC051SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPC051SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C221-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	10.2	1.62	.490	.050	.110	4.05	.240	-28.8	.200	.100	.290	.900	-.440	.220	13.2	.240	.750	.720	67.4	.210	.030	16.8	.030	.410	.030	-.230	.320	-1.55
C259-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C259-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C259-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C539-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C545-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C217-16T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	12.4	.830	-1.07	.130	.240	3.32	.060	-24.9	.260	.090	.530	9.64	-.240	.680	17.2	.570	.520	.210	37.4	.280	.090	12.5	.090	.840	.020	-.090	.280	-1.65

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

7669

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8C026001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8C026002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8C026003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8C026004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8C026005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8C026006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8C026007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8C026008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8C026009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8C026010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8C026011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8C026012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8C026013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8C026014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8C026015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLC2501		ID8C026016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLC2502		ID8C026017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8C026018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8C026019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8C026020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8C026021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPC051SB		ID8C026022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPC051SL		ID8C026023			1	☒	LCS	None
24	11	2	11	1	QC	IPC051SC		ID8C026024			1	☒	LCS	None
25	12	2	12	1	Unk	C221-02A		ID8C026025			1	☒	unk	—
26	13	2	1	2	Unk	C221-02		ID8C026026			1	☒	unk	—
27	14	2	2	2	Unk	C221-02J		ID8C026027			1	☒	unk	—
28	15	2	3	2	Unk	C221-02M		ID8C026028			1	☒	unk	—
29	16	2	4	2	Unk	C221-02S		ID8C026029			1	☒	unk	—
30	17	2	5	2	Unk	C221-01		ID8C026030			1	☒	unk	—
31	18	2	6	2	Blank	Blank		ID8C026031			1	☐		—
32	19	2	7	2	QC	CCV2		ID8C026032			1	☒	CCV	None
33	20	2	8	2	QC	CCB2		ID8C026033			1	☒	3XIDL	None
34	23	2	11	2	Unk	C259-01		ID8C026034			1	☒	unk	—
35	24	2	12	2	Unk	C259-02		ID8C026035			1	☒	unk	—
36	25	2	1	3	Unk	C259-03		ID8C026036			1	☒	unk	—
37	21	2	9	2	Unk	C539-01		ID8C026037			1	☒	unk	—
38	22	2	10	2	Unk	C545-01T	5X COLORED	ID8C026038			1	☒	unk	—
39	26	2	2	3	Unk	C217-09	dried & sieved	ID8C026039			1	☒	unk	—

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	C217-16	dried & sieved	ID8C026040			1	☒	unk	---
41	28	2	4	3	Unk	C217-19	dried & sieved	ID8C026041			1	☒	unk	---
42	32	2	8	3	Unk	C217-16T	10X dried & sieved	ID8C026042			1	☒	unk	---
43	29	2	5	3	Blank	Blank		ID8C026043			1	☐		---
44	30	2	6	3	QC	CCV3		ID8C026044			1	☒	CCV	None
45	31	2	7	3	QC	CCB3		ID8C026045			1	☒	3XIDL	None

7052

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00136	.00002	-.00001	.00029	.00009	.00009	-.00004	.00102	-.00001	-.00079	Blank
2	S20					.85977		.12252				S20
3	S21					8.3829		1.1681				S21
4	S22				.49498						.14960	S22
5	S23				4.8743						1.5402	S23
6	S24						.09550					S24
7	S25						.99449					S25
8	S26	.27821							.88150	.13417		S26
9	S27	9.7663							7.9440	1.2737		S27
10	S28		.00561									S28
11	S29		.05521									S29
12	S30			.00130								S30
13	S31			.00522								S31
14	ICV	106.24	1.4415	1.0382	1.9828	1.5354	2.4521	1.8897	76.799	2.4323	.94710	ICV
15	ICB	.01509	.00179	.00076	.00009	.00013	.00464	.00012	-.03585	.00024	.00012	ICB
16	MRLC2501	.22439	.10103	.01077	.01028	.01022	.01358*	.01012	1.0164	.01066	.00956	MRLC2501
17	MRLC2502	.22327	.05017	.01052	.00572	.00426	.09774	.00509	.52756	.01040	.00926	MRLC2502
18	ICSA1	395.65	.00768	-.00393	.00101	-.00008	-.01222	-.00093	480.79	-.00001	.00098	ICSA1
19	ICSAB1	398.39	1.0184	1.0587	.52625	.49758	.47882	.90047	472.48	.46881	.48118	ICSAB1
20	CCV1	106.98	1.5292	1.0709	1.9829	1.5082	2.4626	1.9164	76.097	2.4317	.97852	CCV1
21	CCB1	.05572	.00114	.00054	.00002	.00008	.00405	.00015	-.00230	.00024	.00003	CCB1
22	IPC051SB	.06738	.00169	-.00174	-.00013	.00001	.00184	-.00009	.01217	.00062	-.00018	IPC051SB
23	IPC051SL	5.2529	2.4030	.50881	.50088	.51350	.45816	.48167	51.482	.50623	.50804	IPC051SL
24	IPC051SC	5.1779	2.3746	.50564	.49817	.51259	.45648	.47722	50.814	.50430	.50540	IPC051SC
25	C221-02A	89.961	2.3488	.62039	1.3240	.51800	.47681	.46427	64.155	.61847	.55955	C221-02A
26	C221-02	84.982	.00511	.11194	.83736	.00551	.02188	-.00182	13.978	.12465	.05334	C221-02
27	C221-02J	17.811	.00075	.02295	.16803	.00110	.00518	-.00053	2.8981	.02524	.01052	C221-02J
28	C221-02M	138.39	2.0158	.65532	2.0337	.51504	.46380	.45104	86.642	.67559	.59161	C221-02M
29	C221-02S	102.34	2.1123	.62734	1.5262	.50610	.46164	.45135	66.734	.62408	.55933	C221-02S
30	C221-01	83.398	.01119	.22762	1.5049	.00858	.01571	-.00162	23.947	.13075	.07116	C221-01
31	Blank	.03980	.00187	-.00006	.00018	-.00001	.00108	.00009	-.03372	.00008	.00007	Blank
32	CCV2	106.96	1.5116	1.0504	1.9892	1.5119	2.4592	1.8579	76.541	2.4148	.99790	CCV2
33	CCB2	.01016	.00162	.00049	.00005	.00011	.00405	.00024	-.02878	.00020	.00010	CCB2
34	C259-01	38.369	.00306	.02341	.41059	.00236	.03150	.00086	63.031	.09368	.02707	C259-01
35	C259-02	29.591	.00192	.01639	.29307	.00131	.01625	.00018	43.212	.07716	.02030	C259-02
36	C259-03	25.851	.00313	.01477	.29418	.00134	.01774	.00016	48.882	.06110	.01859	C259-03
37	C539-01	.16698	.00139	-.00128	.07433	-.00006	.00144	-.00007	.61745	.00068	.03157	C539-01
38	C545-01T	2.3122	-.03931	.00429	.10492	.00009	.20771	1.5889	20.743	6.8516	.03262	C545-01T
39	C217-09	94.868	.00901	.06964	1.2596	.00792	.01545	.01701	42.653	.26251	.10228	C217-09
40	C217-16	260.55	.01952	.24251	2.2751	.01702	.00998	.21270	23.194	.65140	.22552	C217-16
41	C217-19	247.38	.01802	.18371	2.1624	.01413	.01048	.21045	20.338	.47940	.16903	C217-19
42	C217-16T	28.905	.00244	.02516	.22634	.00167	-.00141	.02152	2.3505	.06599	.02289	C217-16T
43	Blank	-.00072	.00108	.00029	-.00029	-.00007	.00009	-.00004	-.04392	-.00009	-.00002	Blank
44	CCV3	107.41	1.5148	1.0442	1.9781	1.5015	2.4335	1.8238	76.163	2.3758	1.0130	CCV3
45	CCB3	.01242	.00083	-.00107	.00013	.00024*	.00332	.00006	-.02495	.00026	.00009	CCB3
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00155	.00000	.00012	.00002	.00000	.00002	-.00003	-.00067	-.00006	.00000	Blank
2	S20			.20205			.11530					S20
3	S21			2.0080			1.1414					S21
4	S22	.34628	.05511									S22
5	S23	3.3229	2.1113									S23
6	S24							.78321				S24
7	S25							7.9014				S25
8	S26								.80861	.31119		S26
9	S27								7.6477	3.0475		S27
10	S28					.10219						S28
11	S29					.41885						S29
12	S30				.02677						.00145	S30
13	S31				.13135						.00578	S31
14	ICV	2.5512	24.595	2.4134	.52796	57.000	2.2981	2.4880	2.4638	59.402	1.0264	ICV
15	ICB	.00033	.00159	-.00016	.00032	.00487	.00030	.00058	.00028	.07210	.00035	ICB
16	MRLC2501	.01071	.21582	.01023	.01097	.96002	.00994	.01066	.01045	.97720	.00976	MRLC2501
17	MRLC2502	.01094	.10839	.00247	.10080	.20023	.00517	.01019	.01063	.95840	.00955	MRLC2502
18	ICSA1	.00119	186.04	.00076	.00572	191.56	.00164	-.00113	.00013	-.03205	-.00112	ICSA1
19	ICSAB1	.54478	185.14	.93922	1.1251	190.26	.44913	1.0381	.98376	79.159	1.0612	ICSAB1
20	CCV1	2.5596	24.393	2.4240	.53086	56.332	2.2772	2.5474	2.4708	59.032	1.0746	CCV1
21	CCB1	.00041	.02382	-.00025	.00048	.01991	.00019	.00066	.00017	.09600	.00126	CCB1
22	IPC051SB	.00017	.03469	-.00102	.00036	.01964	.00015	.00042	.00018	.09700	.00069	IPC051SB
23	IPC051SL	.52130	5.0700	.49880	.00141*	47.854	.47824	.54644	.46219	49.663	.50389	IPC051SL
24	IPC051SC	.51760	5.0115	.49575	.00084*	47.204	.47957	.54282	.46024	48.823	.49739	IPC051SC
25	C221-02A	.64917	150.71	.58218	.09198	81.110	2.5135	.54007	.54780	70.998	.50460	C221-02A
26	C221-02	.12103	150.73	.09129	.09053	33.852	2.1155	.00541	.08058	21.817	-.00046	C221-02
27	C221-02J	.02435	31.259	.01812	.01828	6.9395	.43549	.00101	.01581	4.3060	.00114	C221-02J
28	C221-02M	.76000	232.33	.61608	.18119	110.16	4.5154	.54682	.59601	90.456	.49287	C221-02M
29	C221-02S	.66346	168.35	.57705	.11592	88.619	2.9851	.53763	.53940	75.762	.48623	C221-02S
30	C221-01	.14882	214.61	.18196	.08495	32.675	4.2629	.01979	.07450	18.656	.00205	C221-01
31	Blank	.00021	.08300	-.00070	.00047	.01604	.00084	.00022	.00012	.04800	-.00010	Blank
32	CCV2	2.5495	24.332	2.4378	.53226	56.596	2.2784	2.5726	2.4841	59.593	1.0503	CCV2
33	CCB2	.00029	.00090	-.00044	.00022	.01317	.00024	.00075	.00072	.06738	.00021	CCB2
34	C259-01	.05280	107.24	.04800	.05866	20.662	.94003	.00586	.08204	10.184	.00064	C259-01
35	C259-02	.03741	78.477	.03472	.04807	18.043	.80157	.00391	.06875	7.4748	.00108	C259-02
36	C259-03	.03720	76.382	.03389	.04011	13.946	.74429	.00400	.05836	7.4951	.00174	C259-03
37	C539-01	.04039	.41480	-.00055	.00056	.02554	.00328	.00025	.00356	.07170	.00461	C539-01
38	C545-01T	20.417	152.22	.35015	.00140	2.2189	1.7189	.14983	23.014	.27505	-.00042	C545-01T
39	C217-09	.50148	175.66	.54163	.04682	7.9531	6.6209	.00825	.12863	10.599	.00534	C217-09
40	C217-16	.16864	499.33*	.49357	.10836	11.332	8.2818	.02258	.33547	14.730	.01721	C217-16
41	C217-19	.12627	400.13	.38531	.10184	10.304	8.2078	.01780	.26566	13.628	.01347	C217-19
42	C217-16T	.01654	54.157	.05173	.01068	1.1609	.84922	.00211	.03321	1.4116	.00119	C217-16T
43	Blank	.00017	.00567	-.00088	.00014	.00734	.00005	.00005	.00008	-.00800	.00034	Blank
44	CCV3	2.5297	24.284	2.4401	.52869	56.120	2.2491*	2.5964	2.4896	58.890	1.0463	CCV3
45	CCB3	.00053	.00964	-.00024	.00068	.01715	.00057	.00052	.00021	.03743	.00028	CCB3
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00009	.00085	-.00004	-.00002	.00010	.00002	-.00014	.00183	Blank
2	S20									S20
3	S21									S21
4	S22							.14200		S22
5	S23							1.4203		S23
6	S24		1.0052							S24
7	S25		5.8277							S25
8	S26									S26
9	S27									S27
10	S28				.00612					S28
11	S29				.05869					S29
12	S30	.04292		.13712		.02627	.01597		.57431	S30
13	S31	.21140		.66838		.12754	.07936		5.6522	S31
14	ICV	.50813	63.573	.48925	2.2999	.48225	.49854	1.4622	2.6128	ICV
15	ICB	.00008	.02516	.00007	.00144	.00003	-.00016	.00034	-.00190	ICB
16	MRLC2501	.01012	1.0431	.01022	.01162	.00009	.00982	.01042	.01955	MRLC2501
17	MRLC2502	.01027	.52187	.01048	.01161	.00980	.01006	.01034	.01089	MRLC2502
18	ICSA1	.00030	.01400	.00122	.00215	.00216	.00374	.00063	-.00009	ICSA1
19	ICSAB1	1.1085	83.398	.48850	.82714	.98086	.98236	.48428	1.0492	ICSAB1
20	CCV1	.51379	62.972	.49044	2.3666	.50530	.49877	1.4602	2.6441	CCV1
21	CCB1	.00011	.04106	.00007	.00041	-.00006	-.00002	.00032	-.00170	CCB1
22	IPC051SB	-.00002	.02716	.00005	-.00043	.04157	-.00005	.00025	.00057	IPC051SB
23	IPC051SL	.49159	52.774	.47428	.47035	.54086	.51147	.51248	.55357	IPC051SL
24	IPC051SC	.48943	51.896	.47100	.46612	.53682	.50879	.50783	.55278	IPC051SC
25	C221-02A	.48262	60.439	.67018	.44745	.53823	5.9754	.79838	.96690	C221-02A
26	C221-02	-.00069	8.2435	.20850	.00005	.05213	5.5729	.30468	.41943	C221-02
27	C221-02J	-.00010	1.6249	.04169	.00069	.01050	1.1248	.06137	.08124	C221-02J
28	C221-02M	.50092	66.717	.76485	.42934	.54794	8.1512	.91453	1.3269	C221-02M
29	C221-02S	.49194	61.386	.67410	.43234	.54030	6.8474	.81802	1.0717	C221-02S
30	C221-01	-.00037	13.550	.49619	.00137	.05206	4.3369	.31380	.62213	C221-01
31	Blank	.00008	.00612	.00011	.00024	-.00004	.00115	.00038	-.00181	Blank
32	CCV2	.51137	63.289	.49137	2.3096	.51259	.50111	1.4627	2.6538	CCV2
33	CCB2	.00003	.01684	.00003	.00041	.00003	-.00023	.00032	-.00155	CCB2
34	C259-01	-.00014	2.8476	.26250	.00029	.04811	2.8058	.21538	.23451	C259-01
35	C259-02	.00023	1.0366	.17133	.00051	.04628	2.1525	.14855	.23074	C259-02
36	C259-03	-.00034	1.3700	.19330	-.00046	.04602	1.9105	.14859	.28117	C259-03
37	C539-01	.00182	.07780	.00143	-.00264	.06528	.02677	.00042	.09534	C539-01
38	C545-01T	.09952	3.7225	.37722	.00391	.21636	.09136	.00810	3.5113	C545-01T
39	C217-09	-.00035	.53605	.10355	-.00163	.05451	2.3987	.32319	3.4252	C217-09
40	C217-16	-.00061	.27336	.10677	.00149	.05630	3.3965	.94765	14.857	C217-16
41	C217-19	-.00040	.20248	.08462	.00159	.05548	2.6599	.76426	13.611	C217-19
42	C217-16T	-.00016	.00700	.01054	.00132	.00565	.34244	.09605	1.4702	C217-16T
43	Blank	.00003	-.01670	-.00002	.00049	.00000	-.00027	.00011	-.00173	Blank
44	CCV3	.50449	62.734	.48582	2.2892	.51780	.49833	1.4635	2.6431	CCV3
45	CCB3	.00009	.01253	.00009	.00084	.00002	-.00009	.00028	-.00165	CCB3
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IPC051S
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SM5B-02-149	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 111241117

Prepared By: HF
Standard Added By: HF Witnessed By: TH
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPC051S01	IPC051SB	1	g	3/24/11 13:45	100	1	100	1	
11IPC051S02	IPC051SL	1	g	3/24/11 13:45	100	1	100	1	
11IPC051S03	IPC051SC	1	g	3/24/11 13:45	100	1	100	1	
11IPC051S04	C217-09	1.18	g	3/24/11 13:46	100	1	100	0.847	✓
11IPC051S05	C217-16	1.3	g	3/24/11 13:47	100	1	100	0.769	✓
11IPC051S06	C217-19	1.05	g	3/24/11 13:48	100	1	100	0.952	✓
11IPC051S07	C221-01	1.31	g	3/24/11 13:48	100	1	100	0.763	
11IPC051S08	C221-02	1.01	g	3/24/11 13:49	100	1	100	0.99	
11IPC051S09	C221-02M	1.39	g	3/24/11 13:49	100	1	100	0.719	
11IPC051S10	C221-02S	1.13	g	3/24/11 13:50	100	1	100	0.885	
11IPC051S11	C539-01	1.07	g	3/24/11 13:53	100	1	100	0.935	
11IPC051S12	C545-01	1.14	g	3/24/11 13:54	100	1	100	0.877	
11IPC051S13	C259-01	1.33	g	3/24/11 15:44	100	1	100	0.752	
11IPC051S14	C259-02	1.1	g	3/24/11 15:45	100	1	100	0.909	
11IPC051S15	C259-03	1.06	g	3/24/11 15:46	100	1	100	0.943	

HF 3/24/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 3/24/11 16:16 Prepared By: HF

☑ Digestion Ended @ 3/24/11 18:16 Checked By: TH

Comments: Date 3/24/11

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11D029**

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GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B (METALS) METHOD 3050B/6010B (LEAD)	7000 – 7083 7084 – 7113
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 04-12-2011
EMAX Batch No.: 11D029

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 04/06/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB155-08-01	D029-01	04/02/11	SOIL	CADMIUM
CB155-08-02	D029-02	04/02/11	SOIL	CADMIUM
CB155-09-01	D029-03	04/02/11	SOIL	CADMIUM
CB155-09-02	D029-04	04/02/11	SOIL	CADMIUM
CB155-10-01	D029-05	04/02/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB155-10-02	D029-06	04/02/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB155-11-01	D029-07	04/02/11	SOIL	CADMIUM
CB155-11-01FD	D029-08	04/02/11	SOIL	CADMIUM
CB155-11-02	D029-09	04/02/11	SOIL	CADMIUM
CB155-12-01	D029-10	04/02/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB155-12-02	D029-11	04/02/11	SOIL	METALS BY ICP
CB231-15-01	D029-12	04/03/11	SOIL	CADMIUM
CB231-15-02	D029-13	04/03/11	SOIL	CADMIUM

Sample ID	Control #	Col Date	Matrix	Analysis
CB231-16-01	D029-14	04/03/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-16-02	D029-15	04/03/11	SOIL	CADMIUM
CB231-17-01	D029-16	04/03/11	SOIL	CADMIUM
CB231-17-02	D029-17	04/03/11	SOIL	CADMIUM
CP091-18-01	D029-18	04/04/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CP091-18-02	D029-19	04/04/11	SOIL	CADMIUM
CP091-19-01	D029-20	04/04/11	SOIL	CADMIUM
CP091-19-02	D029-21	04/04/11	SOIL	CADMIUM
CB157-08-01	D029-22	04/04/11	SOIL	CADMIUM
CB157-08-02	D029-23	04/04/11	SOIL	CADMIUM
CB147-09-01	D029-24	04/04/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB147-09-01FD	D029-25	04/04/11	SOIL	CADMIUM
CB147-09-02	D029-26	04/04/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

for

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

CH. 1002

Chain of Custody Record

11D029

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client CH2M HILL, Inc.	**Project Manager** John Ynfante		**Date** April 5, 2011 / **Chain of Custody Number** 1 of 2
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401	
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**
Project Name Tar Creek OU4	**Carrier/Waybill Number** 796953968564	**CH2M HILL Project Number:** 413831.CV.01	
Samplers: SP/VT			

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cd				Comments
1	CB155-08-01	April 2, 2011	10:15	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				-
2	CB155-08-02	April 2, 2011	10:10	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				
3	CB155-09-01	April 2, 2011	10:55	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				
4	CB155-09-02	April 2, 2011	11:00	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				
5	**CB155-10-01**	**April 2, 2011**	**14:10**	**XRF Cup &4 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	x	x	x				
6	**CB155-10-02**	**April 2, 2011**	**14:15**	**XRF Cup &4 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	x	x	x				
7	CB155-11-01	April 2, 2011	14:55	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				
8	CB155-11-01FD	April 2, 2011	14:55	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				
9	CB155-11-02	April 2, 2011	15:00	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x				
10	**CB155-12-01**	**April 2, 2011**	**15:25**	**XRF Cup &4 oz**	**Plastic & Glass**	**1 (EA)**	**ICE**	**Soil**	x	x	x				
11	**CB155-12-02**	**April 2, 2011**	**15:30**	**XRF Cup &4 oz**	**Plastic & Glass**	**2 (EA)**	**ICE**	**Soil**		x	x				
12	CB231-15-01	April 3, 2011	10:35	XRF Cup &4 oz	Plastic & Glass	3 (EA)	ICE	Soil			x				
13	CB231-15-02	April 3, 2011	10:40	XRF Cup &4 oz	Plastic & Glass	4 (EA)	ICE	Soil			x				
14	**CB231-16-01**	**April 3, 2011**	**10:00**	**XRF Cup &4 oz**	**Plastic & Glass**	**5 (EA)**	**ICE**	**Soil**	x	x	x				
15	CB231-16-02	April 3, 2011	10:05	XRF Cup &4 oz	Plastic & Glass	6 (EA)	ICE	Soil			x				
16	CB231-17-01	April 3, 2011	11:10	XRF Cup &4 oz	Plastic & Glass	7 (EA)	ICE	Soil			x				

Turnaround Time 7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Kui Tan	**Date:** April 5, 2011	**Time:** 18:00	**1. Received By:** FedEX	**Date:** 4/6/11 / **Time:** 0930
2. Relinquished By	**Date:**	**Time:**	**2. Received By:**	**Date:**
3. Relinquished By	**Date:**	**Time:**	**3. Received By:**	**Date:**

Comments
Sieve lead samples with #60 siev;Analyze bolded samples under an expedited 3 day turnaround time (TAT); All samples shall also be analyzed for percent monisture content.

T=3.2°C

Chain of Custody Record

11D029

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8889
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			April 5, 2011	2 of 2
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546	**Fax Number** (281) 721-8401			
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante	**PO Number:** Contact John Ynfante	**EMAX Control Number**		
Project Name Tar Creek OU4	**Carrier/Waybill Number** 796953968564	**CH2M HILL Project Number:** 413831.CV.01			
Samplers: SP/VT					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Analysis: Zn	Analysis: Cd					Comments
17	CB231-17-02	April 3, 2011	11:15	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					
18	CP091-18-01	April 4, 2011	15:50	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					
19	CP091-18-02	April 4, 2011	15:55	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					
20	CP091-19-01	April 4, 2011	16:20	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					
21	CP091-19-02	April 4, 2011	16:25	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					
22	CB157-08-01	April 4, 2011	14:40	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					
23	CB157-08-02	April 4, 2011	14:45	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					
24	CB147-09-01	April 4, 2011	11:35	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil	x	x	x					
25	CB147-09-01FD	April 4, 2011	11:35	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					
26	CB147-09-02	April 4, 2011	11:40	XRF Cup &4 oz	Plastic & Glass	1 (EA)	ICE	Soil			x					

Turnaround Time 7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Kui Tan	***Date:*** April 5, 2011	***Time:*** 18:00	***1. Received By:*** FedEX	***Date:*** 4/6/11	***Time:*** 0930
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***	
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:***	

Comments
Sieve lead samples with #60 siev;Analyze bolded samples under an expedited 3 day turnaround time (TAT); All samples shall also be analyzed for percent moniture content.

T=3.2°C

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11D029
☐ EMAX Courier		Recepient I PATEL
☐ Client Delivery		Date 4/6/11
☑ Third Party Fedex	7969 5396 8564	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	Plastic Bag
Temperatures (Cool, ≤6 °C but not frozen)	B ☑ Cooler 1 3.2 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
02		Time 1018	D3	R2

REVIEWS

Sample Labeling [signature] Date 4/6/11 /LK

SRF [signature] Date 4/6/11

PM LP for Ye Date 4/6/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	____
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	____		
C4	____	H2	____		

Linh Pham

From: Ye Myint
Sent: Wednesday, April 06, 2011 3:22 PM
To: Linh Pham
Subject: FW: Logins for Tar Creek

FYI
See below.

Ye
310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Wednesday, April 06, 2011 1:45 PM
To: Ye Myint
Cc: Hiroshi.Awata@CH2M.com
Subject: RE: Logins for Tar Creek

Ye,

That looks fine just please make sure the following samples get a 3-day rush TAT:

CB147-05-01 needs a 3-day rush TAT on zinc and cadmium
CB237-02-01 needs a 3-day rush TAT on zinc and cadmium
CP098-01-01 needs a 3-day rush TAT on zinc and cadmium

Also, you should be receiving some more samples today and I need to get rush 3-day TAT for zinc only (Pb and Cd can be standard) for the following samples:

CB231-16-01 needs a 3-day rush TAT on zinc
CB155-10-01 needs a 3-day rush TAT on zinc
CB155-10-02 needs a 3-day rush TAT on zinc
CB155-12-01 needs a 3-day rush TAT on zinc
CB155-12-02 needs a 3-day rush TAT on zinc

Also, I am back in the office now so you can stop cc'ing Hiroshi on the Tar Creek correspondence.
Thanks

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Wednesday, April 06, 2011 2:43 PM
To: Ynfante, John/HOU
Cc: Awata, Hiroshi/HOU
Subject: Logins for Tar Creek

Hi John,

Attached are the logins and COCs information for SDGs: 11D012 and 11D019. Please review and let me know if there are any corrections necessary.

Thanks.

Ye Myint
Project Manager
EMAX Laboratories, Inc.
1835W 205th. St.
Torrance, CA 90501
Ph: 310-618-8889 x121
Fax: 310-618-0818
E-mail: ymyint@emaxlabs.com

From: (281) 721-8534
Kui Tan
CH2M HILL
14701 St. Mary's Lane
Suite 300
Houston, TX 77079

Origin ID: NQIA

FedEx Express

J11151102250225

Ship Date: 05APR11
ActWgt: 40.0 LB
CAD: 1303944/WBUS0200

Dims: 28 X 14 X 16 IN

Delivery Address Bar Code

Ref # 413831.CV.01/AAB00103032
Invoice #
PO #
Dept #

SHIP TO: (310) 618-8889 BILL SENDER

Sample Receiving
EMAX Laboratories, Inc.
1835 W. 205th Street

Torrance, CA 90501

WED - 06 APR A1
PRIORITY OVERNIGHT

TRK# 7969 5396 8564
0201

A7 AVXA

11D029
4/6/11
0930

90501
CA-US
LAX

50DG3/26A8/7EFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11D029

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D029

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of twenty-six (26) soil samples were received on 04/06/11 for Metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary forms for details.

Lab Control Sample
Two (2) sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries for IPD009SX/Y were all within QC limits.
Percent recoveries for IPD011SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries for D029-16G/H were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D029
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD011SB	1	NA	04/08/1111:47	04/07/1115:19	ID8D009045	ID8DD09043	IPD011S	Method Blank
LCS1S	IPD011SL	1	NA	04/08/1111:50	04/07/1115:19	ID8D009046	ID8D009043	IPD011S	Lab Control Sample (LCS)
LCD1S	IPD011SC	1	NA	04/08/1111:53	04/07/1115:19	ID8D009047	ID8D009043	IPD011S	LCS Duplicate
PD11-SS02-040611AS	D032-02A	0.877	13.3	04/08/1111:55	04/07/1115:19	ID8D009048	ID8D009043	IPD011S	Analytical Spike Sample
PD11-SS02-040611	D032-02	0.877	13.3	04/08/1111:58	04/07/1115:19	ID8D009049	ID8D009043	IPD011S	Field Sample
PD11-SS02-040611DL	D032-02J	4.36	13.3	04/08/1112:01	04/07/1115:19	ID8D009050	ID8D009043	IPD011S	Diluted Sample
CP091-18-01	D029-18	0.826	22.7	04/08/1112:24	04/07/1115:19	ID8D009058	ID8D009055	IPD011S	Field Sample
CB147-09-01	D029-24	0.885	22.5	04/08/1112:41	04/07/1115:19	ID8D009064	ID8D009055	IPD011S	Field Sample
MBLK2S	IPD009SQ	1	NA	04/08/1114:22	04/06/1116:10	ID8D010022	ID8D010020	IPD009S	Method Blank
LCS2S	IPD009SX	1	NA	04/08/1114:24	04/06/1116:10	ID8D010023	ID8D010020	IPD009S	Lab Control Sample (LCS)
LCD2S	IPD009SY	1	NA	04/08/1114:27	04/06/1116:10	ID8D010024	ID8D010020	IPD009S	LCS Duplicate
CB231-17-01AS	D029-16A	0.752	17.9	04/08/1114:30	04/06/1116:10	ID8D010025	ID8D010020	IPD009S	Analytical Spike Sample
CB231-17-01	D029-16W	0.752	17.9	04/08/1114:32	04/06/1116:10	ID8D010026	ID8D010020	IPD009S	Field Sample
CB231-17-01DL	D029-16J	3.76	17.9	04/08/1114:35	04/06/1116:10	ID8D010027	ID8D010020	IPD009S	Diluted Sample
CB155-10-01	D029-05W	0.826	23.7	04/08/1115:05	04/06/1116:10	ID8D010038	ID8D010032	IPD009S	Field Sample
CB155-10-02	D029-06W	0.787	21.7	04/08/1115:08	04/06/1116:10	ID8D010039	ID8D010032	IPD009S	Field Sample
CB155-12-01	D029-10W	0.917	17.9	04/08/1115:27	04/06/1116:10	ID8D010046	ID8D010044	IPD009S	Field Sample
CB155-12-02	D029-11W	0.862	18.6	04/08/1115:30	04/06/1116:10	ID8D010047	ID8D010044	IPD009S	Field Sample
CB231-16-01	D029-14W	0.917	22.7	04/08/1115:39	04/06/1116:10	ID8D010D50	ID8D010044	IPD009S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 14:10
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-10-01	Date Analyzed:	04/08/11 15:05
Lab Samp ID:	D029-05W	Dilution Factor:	0.826
Lab File ID:	ID8D010038	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	23.7
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	9.19	1.08	0.217
Zinc	1960	2.17	1.08

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 14:15
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-10-02	Date Analyzed:	04/08/11 15:08
Lab Samp ID:	D029-06W	Dilution Factor:	0.787
Lab File ID:	ID8D010039	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	21.7
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	8.79	1.01	0.201
Zinc	1790	2.01	1.01

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 15:25
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-12-01	Date Analyzed:	04/08/11 15:27
Lab Samp ID:	D029-10W	Dilution Factor:	0.917
Lab File ID:	ID8D010046	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	17.9
Calib. Ref.:	ID8D010044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	5.69	1.12	0.223
Zinc	1390	2.23	1.12

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 15:30
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-12-02	Date Analyzed:	04/08/11 15:30
Lab Samp ID:	D029-11W	Dilution Factor:	0.862
Lab File ID:	ID8D010047	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	18.6
Calib. Ref.:	ID8D010044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.25	1.06	0.212
Zinc	976	2.12	1.06

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/03/11 10:00
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB231-16-01	Date Analyzed:	04/08/11 15:39
Lab Samp ID:	D029-14W	Dilution Factor:	0.917
Lab File ID:	ID8D010050	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	22.7
Calib. Ref.:	ID8D010044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	4.27	1.19	0.237
Zinc	877	2.37	1.19

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 15:50
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CP091-18-01	Date Analyzed:	04/08/11 12:24
Lab Samp ID:	D029-18	Dilution Factor:	0.826
Lab File ID:	ID8D009058	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	22.7
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.791J	1.07	0.214
Zinc	188	2.14	1.07

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 11:35
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CB147-09-01	Date Analyzed:	04/08/11 12:41
Lab Samp ID:	D029-24	Dilution Factor:	0.885
Lab File ID:	ID8D009064	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	22.5
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.31	1.14	0.228
Zinc	496	2.28	1.14

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/07/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	MBLK1S	Date Analyzed:	04/08/11 11:47
Lab Samp ID:	IPD011SB	Dilution Factor:	1
Lab File ID:	ID8D009045	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	NA
Calib. Ref.:	ID8D009043	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPD011SB	IPD011SL	IPD011SC		
LAB FILE ID:	ID8D009045	ID8D009046	ID8D009047		
DATIME EXTRCTD:	04/07/1115:19	04/07/1115:19	04/07/1115:19	DATE COLLECTED:	NA
DATIME ANALYZD:	04/08/1111:47	04/08/1111:50	04/08/1111:53	DATE RECEIVED:	04/07/11
PREP. BATCH:	IPD009S	IPD009S	IPD009S		
CALIB. REF:	ID8D009043	ID8D009043	ID8D009043		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	50.3	101	50	50.8	102	1	80-120	20
Zinc	ND	50	54.6	109	50	55.4	111	1	80-120	20

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	MBLK2S	Date Analyzed:	04/08/11 14:22
Lab Samp ID:	IPD009SQ	Dilution Factor:	1
Lab File ID:	ID8D010022	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	NA
Calib. Ref.:	ID8D010020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	IPD009SQ	IPD009SX	IPD009SY		
LAB FILE ID:	ID8D010022	ID8D010023	ID8D010024		
DATIME EXTRCTD:	04/06/1116:10	04/06/1116:10	04/06/1116:10	DATE COLLECTED:	NA
DATIME ANALYZD:	04/08/1114:22	04/08/1114:24	04/08/1114:27	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S	IPD009S		
CALIB. REF:	ID8D010020	ID8D010020	ID8D010020		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	48.5	97	50	48.3	97	0	80-120	20
Zinc	ND	50	55.4	111	50	55.2	110	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.9
DILUTION FACTOR:	0.752	3.76		
SAMPLE ID:	CB231-17-01	CB231-17-01DL		
EMAX SAMP ID:	D029-16W	D029-16J		
LAB FILE ID:	ID8D010026	ID8D010027		
DATE EXTRACTED:	04/06/1116:10	04/06/1116:10	DATE COLLECTED:	04/03/11 11:10
DATE ANALYZED:	04/08/1114:32	04/08/1114:35	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S		
CALIB. REF:	ID8D010020	ID8D010020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.295J	ND	NA	10
Zinc	92.1	88.6	4	10

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	13.3
DILUTION FACTOR:	0.877	0.877		
SAMPLE ID:	PD11-SS02-040611	PD11-SS02-040611		
EMAX SAMP ID:	D032-02	D032-02		
LAB FILE ID:	ID8D009049	ID8D009049		
DATE EXTRACTED:	04/07/1115:19	04/07/1115:19	DATE COLLECTED:	04/06/11 13:00
DATE ANALYZED:	04/08/1111:58	04/08/1111:58	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD011S	IPD011S		
CALIB. REF:	ID8D009043	ID8D009043		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10
Zinc	33.8	33.8	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

==========

MATRIX:	SOIL		% MOISTURE:	17.9
DILTN FACTR:	0.752	0.752		
SAMPLE ID:	CB231-17-01			
CONTROL NO.:	D029-16W	D029-16A		
LAB FILE ID:	ID8D010026	ID8D010025		
DATIME EXTRCTD:	04/06/1116:10	04/06/1116:10	DATE COLLECTED:	04/03/11 11:10
DATIME ANALYZD:	04/08/1114:32	04/08/1114:30	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S		
CALIB. REF:	ID8D010020	ID8D010020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.295J	45.8	43.8	95	75-125
Zinc	92.1	45.8	141	106	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	13.3
DILTN FACTR:	0.877	0.877		
SAMPLE ID:	PD11-SS02-040611			
CONTROL NO.:	D032-02	D032-02A		
LAB FILE ID:	ID8D009049	ID8D009048		
DATIME EXTRCTD:	04/07/1115:19	04/07/1115:19	DATE COLLECTED:	04/06/11 13:00
DATIME ANALYZD:	04/08/1111:58	04/08/1111:55	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S		
CALIB. REF:	ID8D009043	ID8D009043		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	50.6	50.3	99	75-125
Zinc	33.8	50.6	89.5	110	75-125

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D029
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD011SB	1	NA	04/08/1111:47	04/07/1115:19	ID8D009045	ID8D009043	IPD011S	Method Blank
LCS1S	IPD011SL	1	NA	04/08/1111:50	04/07/1115:19	ID8D009046	ID8D009043	IPD011S	Lab Control Sample (LCS)
LCD1S	IPD011SC	1	NA	04/08/1111:53	04/07/1115:19	ID8D009047	ID8D009043	IPD011S	LCS Duplicate
PD11-SS02-040611AS	D032-02A	0.877	13.3	04/08/1111:55	04/07/1115:19	ID8D009048	ID8D009043	IPD011S	Analytical Spike Sample
PD11-SS02-040611	D032-02	0.877	13.3	04/08/1111:58	04/07/1115:19	ID8D009049	ID8D009043	IPD011S	Field Sample
PD11-SS02-040611DL	D032-02J	4.36	13.3	04/08/1112:01	04/07/1115:19	ID8D009050	ID8D009043	IPD011S	Diluted Sample
CB231-17-02	D029-17	0.820	17.7	04/08/1112:21	04/07/1115:19	ID8D009057	ID8D009055	IPD011S	Field Sample
CP091-18-02	D029-19	0.877	22.0	04/08/1112:27	04/07/1115:19	ID8D009059	ID8D009055	IPD011S	Field Sample
CP091-19-01	D029-20	0.855	21.9	04/08/1112:30	04/07/1115:19	ID8D009060	ID8D009055	IPD011S	Field Sample
CP091-19-02	D029-21	0.862	20.8	04/08/1112:33	04/07/1115:19	ID8D009061	ID8D009055	IPD011S	Field Sample
CB157-08-01	D029-22	0.763	23.6	04/08/1112:35	04/07/1115:19	ID8D009062	ID8D009055	IPD011S	Field Sample
CB157-08-02	D029-23	0.820	23.2	04/08/1112:38	04/07/1115:19	ID8D009063	ID8D009055	IPD011S	Field Sample
CB147-09-01FD	D029-25	0.971	22.6	04/08/1112:43	04/07/1115:19	ID8D009065	ID8D009055	IPD011S	Field Sample
CB147-09-02	D029-26	0.847	20.4	04/08/1114:43	04/07/1115:19	ID8D010030	ID8D010020	IPD011S	Field Sample
MBLK2S	IPD009SQ	1	NA	04/08/1114:22	04/06/1116:10	ID8D010022	ID8D010020	IPD009S	Method Blank
LCS2S	IPD009SX	1	NA	04/08/1114:24	04/06/1116:10	ID8D010023	ID8D010020	IPD009S	Lab Control Sample (LCS)
LCD2S	IPD009SY	1	NA	04/08/1114:27	04/06/1116:10	ID8D010024	ID8D010020	IPD009S	LCS Duplicate
CB231-17-01AS	D029-16A	0.752	17.9	04/08/1114:30	04/06/1116:10	ID8D010025	ID8D010020	IPD009S	Analytical Spike Sample
CB231-17-01	D029-16W	0.752	17.9	04/08/1114:32	04/06/1116:10	ID8D010026	ID8D010020	IPD009S	Field Sample
CB231-17-01DL	D029-16J	3.76	17.9	04/08/1114:35	04/06/1116:10	ID8D010027	ID8D010020	IPD009S	Diluted Sample
CB231-17-01MS	D029-16G	0.885	17.9	04/08/1114:38	04/06/1116:10	ID8D010028	ID8D010020	IPD009S	Matrix Spike Sample (MS)
CB231-17-01MSD	DD29-16H	0.752	17.9	04/08/1114:40	04/06/1116:10	ID8D010029	ID8D010020	IPD009S	MS Duplicate (MSD)
CB155-08-01	D029-01W	0.901	20.7	04/08/1114:54	04/06/1116:10	ID8D010034	ID8D010032	IPD009S	Field Sample
CB155-08-02	D029-02W	0.826	18.9	04/08/1114:57	04/06/1116:10	ID8D010035	ID8D010032	IPD009S	Field Sample
CB155-09-01	D029-03W	0.943	25.0	04/08/1115:00	04/06/1116:10	ID8D010036	ID8D010032	IPD009S	Field Sample
CB155-09-02	D029-04W	0.775	21.5	04/08/1115:02	04/06/1116:10	ID8D010037	ID8D010032	IPD009S	Field Sample
CB155-11-01	D029-07W	0.800	24.5	04/08/1115:11	04/06/1116:10	ID8D010040	ID8D010032	IPD009S	Field Sample
CB155-11-01FD	D029-08W	0.862	25.0	04/08/1115:13	04/06/1116:10	ID8D010041	ID8D010032	IPD009S	Field Sample
CB155-11-02	D029-09W	0.806	20.5	04/08/1115:16	04/06/1116:10	ID8D010042	ID8D010032	IPD009S	Field Sample
CB231-15-01	D029-12W	1.00	20.8	04/08/1115:33	04/06/1116:10	ID8D010048	ID8D010044	IPD009S	Field Sample
CB231-15-02	DD29-13W	0.855	20.1	04/08/1115:36	04/06/1116:10	ID8D010049	ID8D010044	IPD009S	Field Sample
CB231-16-02	D029-15W	0.763	21.1	04/08/1115:41	04/06/1116:10	ID8D010051	ID8D010044	IPD009S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 10:15
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-08-01	Date Analyzed:	04/08/11 14:54
Lab Samp ID:	D029-01W	Dilution Factor:	0.901
Lab File ID:	ID8D010034	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	20.7
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.18	1.14	0.227

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 10:10
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-08-02	Date Analyzed:	04/08/11 14:57
Lab Samp ID:	D029-02W	Dilution Factor:	0.826
Lab File ID:	ID8D010035	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	18.9
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.54	1.02	0.204

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 10:55
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-09-01	Date Analyzed:	04/08/11 15:00
Lab Samp ID:	D029-03W	Dilution Factor:	0.943
Lab File ID:	ID8D010036	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	25.0
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	20.2	1.26	0.251

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 11:00
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-09-02	Date Analyzed:	04/08/11 15:02
Lab Samp ID:	D029-04W	Dilution Factor:	0.775
Lab File ID:	ID8D010037	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	21.5
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	16.4	0.987	0.197

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 14:55
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-11-01	Date Analyzed:	04/08/11 15:11
Lab Samp ID:	D029-07W	Dilution Factor:	0.800
Lab File ID:	ID8D010040	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	24.5
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.49	1.06	0.212

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 14:55
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-11-01FD	Date Analyzed:	04/08/11 15:13
Lab Samp ID:	D029-08W	Dilution Factor:	0.862
Lab File ID:	ID8D010041	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	25.0
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	4.35	1.15	0.230

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 15:00
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB155-11-02	Date Analyzed:	04/08/11 15:16
Lab Samp ID:	D029-09W	Dilution Factor:	0.806
Lab File ID:	ID8D010042	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	20.5
Calib. Ref.:	ID8D010032	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.549J	1.01	0.203

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/03/11 10:35
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB231-15-01	Date Analyzed:	04/08/11 15:33
Lab Samp ID:	D029-12W	Dilution Factor:	1.00
Lab File ID:	ID8D010048	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	20.8
Calib. Ref.:	ID8D010044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.15J	1.26	0.253

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/03/11 10:40
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB231-15-02	Date Analyzed:	04/08/11 15:36
Lab Samp ID:	D029-13W	Dilution Factor:	0.855
Lab File ID:	ID8D010049	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	20.1
Calib. Ref.:	ID8D010044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.07	0.214

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/03/11 10:05
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB231-16-02	Date Analyzed:	04/08/11 15:41
Lab Samp ID:	D029-15W	Dilution Factor:	0.763
Lab File ID:	ID8D010051	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	21.1
Calib. Ref.:	ID8D010044	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.45	0.967	0.193

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/03/11 11:10
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	CB231-17-01	Date Analyzed:	04/08/11 14:32
Lab Samp ID:	D029-16W	Dilution Factor:	0.752
Lab File ID:	ID8D010026	Matrix :	SOIL
Ext Btch ID:	IPD009S	% Moisture :	17.9
Calib. Ref.:	ID8D010020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.295J	0.916	0.183

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/03/11 11:15
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CB231-17-02	Date Analyzed:	04/08/11 12:21
Lab Samp ID:	D029-17	Dilution Factor:	0.820
Lab File ID:	ID8D009057	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	17.7
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	0.996	0.199

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 15:55
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CP091-18-02	Date Analyzed:	04/08/11 12:27
Lab Samp ID:	D029-19	Dilution Factor:	0.877
Lab File ID:	ID8D009059	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	22.0
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.12	0.225

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 16:20
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CP091-19-01	Date Analyzed:	04/08/11 12:30
Lab Samp ID:	D029-20	Dilution Factor:	0.855
Lab File ID:	ID8D009060	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	21.9
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.769J	1.09	0.219

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 16:25
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CP091-19-02	Date Analyzed:	04/08/11 12:33
Lab Samp ID:	D029-21	Dilution Factor:	0.862
Lab File ID:	ID8D009061	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	20.8
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.09	0.218

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 14:40
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CB157-08-01	Date Analyzed:	04/08/11 12:35
Lab Samp ID:	D029-22	Dilution Factor:	0.763
Lab File ID:	ID8D009062	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	23.6
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.448J	0.999	0.200

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 14:45
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CB157-08-02	Date Analyzed:	04/08/11 12:38
Lab Samp ID:	D029-23	Dilution Factor:	0.820
Lab File ID:	ID8D009063	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	23.2
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.07	0.214

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 11:35
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CB147-09-01FD	Date Analyzed:	04/08/11 12:43
Lab Samp ID:	D029-25	Dilution Factor:	0.971
Lab File ID:	ID8D009065	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	22.6
Calib. Ref.:	ID8D009055	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	3.26	1.25	0.251

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 11:40
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	CB147-09-02	Date Analyzed:	04/08/11 14:43
Lab Samp ID:	D029-26	Dilution Factor:	0.847
Lab File ID:	ID8D010030	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	20.4
Calib. Ref.:	ID8D010020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.94	1.06	0.213

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/07/11
SDG NO.	: 11D029	Date Extracted:	04/07/11 15:19
Sample ID:	MBLK1S	Date Analyzed:	04/08/11 11:47
Lab Samp ID:	IPD011SB	Dilution Factor:	1
Lab File ID:	ID8D009045	Matrix :	SOIL
Ext Btch ID:	IPD011S	% Moisture :	NA
Calib. Ref.:	ID8D009043	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6D10B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPD011SB	IPD011SL	IPD011SC		
LAB FILE ID:	ID8D009045	ID8D009046	ID8D009047		
DATIME EXTRCTD:	04/07/1115:19	04/07/1115:19	04/07/1115:19	DATE COLLECTED:	NA
DATIME ANALYZD:	04/08/1111:47	04/08/1111:50	04/08/1111:53	DATE RECEIVED:	04/07/11
PREP. BATCH:	IPD009S	IPD009S	IPD009S		
CALIB. REF:	ID8D009043	ID8D009043	ID8D009043		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	50.3	101	50	50.8	102	1	80-120	20

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/06/11 16:10
Sample ID:	MBLK2S	Date Analyzed:	04/08/11 14:22
Lab Samp ID:	1PD009SQ	Dilution Factor:	1
Lab File ID:	ID8D010022	Matrix :	SOIL
Ext Btch ID:	1PD009S	% Moisture :	NA
Calib. Ref.:	ID8D010020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	IPD009SQ	IPD009SX	IPD009SY		
LAB FILE ID:	ID8D010022	ID8D010023	ID8D010024		
DATIME EXTRCTD:	04/06/1116:10	04/06/1116:10	04/06/1116:10	DATE COLLECTED:	NA
DATIME ANALYZD:	04/08/1114:22	04/08/1114:24	04/08/1114:27	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S	IPD009S		
CALIB. REF:	ID8D010020	ID8D010020	ID8D010020		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	48.5	97	50	48.3	97	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CHZM HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	17.9
DILTN FACTR:	0.752	0.885	0.752		
SAMPLE ID:	C8231-17-01				
CONTROL NO.:	D029-16W	D029-16G	D029-16H		
LAB FILE ID:	ID8D010026	ID8D010028	ID8D010029		
DATIME EXTRCTD:	04/06/1116:10	04/06/1116:10	04/06/1116:10	DATE COLLECTED:	04/03/11 11:10
DATIME ANALYZD:	04/08/1114:32	04/08/1114:38	04/08/1114:40	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S	IPD009S		
CALIB. REF:	ID8D010020	ID8D010020	ID8D010020		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	.295J	53.9	49.9	92	45.8	42.4	92	16	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.9
DILUTION FACTOR:	0.752	3.76		
SAMPLE ID:	CB231-17-01	CB231-17-01DL		
EMAX SAMP ID:	D029-16W	D029-16J		
LAB FILE ID:	ID8D010026	ID8D010027		
DATE EXTRACTED:	04/06/1116:10	04/06/1116:10	DATE COLLECTED:	04/03/11 11:10
DATE ANALYZED:	04/08/1114:32	04/08/1114:35	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S		
CALIB. REF:	ID8D010020	ID8D010020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	0.295J	ND	NA	10

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	13.3
DILUTION FACTOR:	0.877	4.36		
SAMPLE ID:	PD11-SS02-040611	PD11-SS02-040611DL		
EMAX SAMP ID:	D032-02	D032-02J		
LAB FILE ID:	ID8D009049	ID8D009050		
DATE EXTRACTED:	04/07/1115:19	04/07/1115:19	DATE COLLECTED:	04/06/11 13:00
DATE ANALYZED:	04/08/1111:58	04/08/1112:01	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD011S	IPD011S		
CALIB. REF:	ID8D009043	ID8D009043		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.9
DILTN FACTR:	0.752	0.752		
SAMPLE ID:	CB231-17-01			
CONTROL NO.:	D029-16W	D029-16A		
LAB FILE ID:	ID8D010026	ID8D010025		
DATIME EXTRCTD:	04/06/1116:10	04/06/1116:10	DATE COLLECTED:	04/03/11 11:10
DATIME ANALYZD:	04/08/1114:32	04/08/1114:30	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S		
CALIB. REF:	ID8D010020	ID8D010020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	.295J	45.8	43.8	95	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	13.3
DILTN FACTR:	0.877	0.877		
SAMPLE ID:	PD11-SS02-040611			
CONTROL NO.:	D032-02	D032-02A		
LAB FILE ID:	ID8D009049	ID8D009048		
DATIME EXTRCTD:	04/07/1115:19	04/07/1115:19	DATE COLLECTED:	04/06/11 13:00
DATIME ANALYZD:	04/08/1111:58	04/08/1111:55	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD009S	IPD009S		
CALIB. REF:	ID8D009043	ID8D009043		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	ND	50.6	50.3	99	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/8/11 ~~09:43~~ 09:43 TH 4/8/11

End Date: 4/8/11 12:52

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

plasma off after CCB5

Book #: AD8-019

Instrument No.: D8

Analytical Batch: 1D8D009

Analytical Sequence: S-11D6010(V9)

Method File: 11D6010(V9)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-50-02	S30	SM1B14-4201
S1	NA	S31	4202
S2		ICV	2701
S3		CCV	4803
S4		ICSA	5001
S5		ICSAB	4601
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL 1	SM1B1441-09
S9		MRL2	1901
S10			
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-3102		
S21	37-02		
S22	37-03		
S23	37-04		
S24	40-01		
S25	40-02		
S26	2801		
S27	2802		
S28	40-03		
S29	40-04		

Analyzed By: TH

Date: 4/8/11

7048

SEQUENCE FILE : ID8D009

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8D009001	Blank	09:43	04/08/11	1.000
ID8D009002	S20	09:46	04/08/11	1.000
ID8D009003	S21	09:49	04/08/11	1.000
ID8D009004	S22	09:52	04/08/11	1.000
ID8D009005	S23	09:55	04/08/11	1.000
ID8D009006	S24	09:58	04/08/11	1.000
ID8D009007	S25	10:01	04/08/11	1.000
ID8D009008	S26	10:04	04/08/11	1.000
ID8D009009	S27	10:07	04/08/11	1.000
ID8D009010	S28	10:10	04/08/11	1.000
ID8D009011	S29	10:13	04/08/11	1.000
ID8D009012	S30	10:16	04/08/11	1.000
ID8D009013	S31	10:18	04/08/11	1.000
ID8D009014	ICV	10:21	04/08/11	1.000
ID8D009015	ICB	10:24	04/08/11	1.000
ID8D009016	MRLD0801	10:27	04/08/11	1.000
ID8D009017	MRLD0802	10:29	04/08/11	1.000
ID8D009018	ICSA1	10:32	04/08/11	1.000
ID8D009019	ICSAB1	10:35	04/08/11	1.000
ID8D009020	CCV1	10:38	04/08/11	1.000
ID8D009021	CCB1	10:41	04/08/11	1.000
ID8D009022	IPD012SB	10:44	04/08/11	1.000
ID8D009023	IPD012SL	10:46	04/08/11	1.000
ID8D009024	IPD012SC	10:49	04/08/11	1.000
ID8D009025	D019-02A	10:52	04/08/11	1.000
ID8D009026	D019-02	10:54	04/08/11	1.000
ID8D009027	D019-02J	10:57	04/08/11	5.000
ID8D009028	D019-04	11:00	04/08/11	1.000
ID8D009029	D019-06	11:02	04/08/11	1.000
ID8D009030	D019-07	11:05	04/08/11	1.000
ID8D009031	Blank	11:08	04/08/11	1.000
ID8D009032	CCV2	11:11	04/08/11	1.000
ID8D009033	CCB2	11:13	04/08/11	1.000
ID8D009034	D019-08	11:16	04/08/11	1.000
ID8D009035	D008-01	11:19	04/08/11	1.000
ID8D009036	D008-01M	11:22	04/08/11	1.000
ID8D009037	D008-01S	11:25	04/08/11	1.000
ID8D009038	D008-02	11:27	04/08/11	1.000
ID8D009039	D008-03	11:30	04/08/11	1.000
ID8D009040	D008-04	11:33	04/08/11	1.000
ID8D009041	D008-05	11:36	04/08/11	1.000
ID8D009042	Blank	11:39	04/08/11	1.000
ID8D009043	CCV3	11:42	04/08/11	1.000
ID8D009044	CCB3	11:44	04/08/11	1.000
ID8D009045	IPD011SB	11:47	04/08/11	1.000
ID8D009046	IPD011SL	11:50	04/08/11	1.000
ID8D009047	IPD011SC	11:53	04/08/11	1.000
ID8D009048	D032-02A	11:55	04/08/11	1.000
ID8D009049	D032-02	11:58	04/08/11	1.000
ID8D009050	D032-02J	12:01	04/08/11	5.000
ID8D009051	D032-02M	12:04	04/08/11	1.000
ID8D009052	D032-02S	12:07	04/08/11	1.000
ID8D009053	D032-01	12:10	04/08/11	1.000
ID8D009054	Blank	12:13	04/08/11	1.000

ID8D009055	CCV4	12:16	04/08/11	1.000
ID8D009056	CCB4	12:18	04/08/11	1.000
ID8D009057	D029-17	12:21	04/08/11	1.000
ID8D009058	D029-18	12:24	04/08/11	1.000
ID8D009059	D029-19	12:27	04/08/11	1.000
ID8D009060	D029-20	12:30	04/08/11	1.000
ID8D009061	D029-21	12:33	04/08/11	1.000
ID8D009062	D029-22	12:35	04/08/11	1.000
ID8D009063	D029-23	12:38	04/08/11	1.000
ID8D009064	D029-24	12:41	04/08/11	1.000
ID8D009065	D029-25	12:43	04/08/11	1.000
IDBD009066	Blank	12:46	04/08/11	1.000
ID8D009067	CCV5	12:49	04/08/11	1.000
ID8D009068	CCB5	12:52	04/08/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8D009 DATE : 04/08/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	107	98	103	98	101	97	99	100	97	93	101	100	95	103	94	94	98	98	96	101	100	104	97	93	97	98	98	104
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0801	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0802	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	100	----	----	----	----	----	----	94	----	----	----	96	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	101	104	106	106	100	99	98	96	96	94	109	96	94	111	95	92	102	99	103	105	111	110	99	86	98	98	100	106
CCV1	107	101	105	99	100	99	99	103	99	96	102	100	96	105	95	97	101	99	99	103	102	106	99	94	99	99	100	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD012SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD012SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD012SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	108	102	105	100	101	99	100	103	99	96	102	100	95	104	96	97	101	99	98	104	102	105	99	95	99	100	100	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	106	101	106	99	101	98	100	102	99	96	101	100	96	103	96	97	101	99	98	104	102	104	98	96	100	100	99	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD011SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD011SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD011SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV4	105	101	106	98	101	98	102	104	100	95	99	102	95	101	98	97	99	98	98	104	101	104	97	97	99	100	99	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	105	99	105	98	100	98	100	102	99	96	98	102	96	101	97	97	101	99	98	103	100	104	97	95	102	100	98	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8D009 (SOIL) DATE : 04/08/11 INST : EMAX7

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	21.3	1.23	1.000	.090	.260	5.04	.110	-53.0	.290	.050	.300	-2.53	-.470	.200	3.88	.340	.560	.040	72.5	-1.48	.330	27.6	.280	.940	-.260	.030	.270	-1.92
MRLD0801	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0802	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.53	-1.15	.780	-.080	-.760	-1.62	----	-.170	-.120	.990	----	.010	4.72	----	1.75	-1.25	.100	-65.2	-2.38	.090	112	1.16	2.63	2.14	2.82	-.670	-.960
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	19.1	1.34	.290	-.060	.070	4.72	.030	-46.1	-.020	-.050	.200	-3.85	-.540	-.100	1.53	.070	.480	-.260	56.7	-1.70	-.060	35.3	-.090	.640	-.400	.070	.040	-2.99
IPD012SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD012SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD012SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D019-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	20.1	1.10	1.68	.030	.140	3.72	.100	-41.5	.070	.070	.230	-1.16	-.510	-.820	1.95	.390	.450	-.110	52.9	-1.99	-.070	22.6	-.040	.960	-.430	-.070	.190	-2.81
D019-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D008-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	10.6	1.29	.250	-.170	.080	3.80	.030	-49.8	-.070	-.040	.060	-6.04	-.520	-.410	-4.94	.090	.440	-.340	40.8	-1.57	.000	20.0	-.110	.420	-.490	.020	.030	-2.95
IPD011SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD011SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD011SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D032-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	12.0	1.42	.990	-.060	.120	4.95	.090	-46.8	.090	.010	.040	-3.99	-.540	-.530	3.58	.260	.470	-.120	57.1	-.810	.090	22.6	-.120	1.08	-.310	.200	.130	-2.99
D029-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	13.3	.580	.440	.350	.240	4.77	.140	82.8	.150	.040	.400	1.18	-.200	.120	1.27	.450	.480	.050	30.1	-2.34	.030	21.2	-.020	.990	-.030	.010	.150	2.11

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8D009001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8D009002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8D009003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8D009004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8D009005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8D009006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8D009007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8D009008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8D009009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8D009010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8D009011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8D009012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8D009013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8D009014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8D009015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLD0801		ID8D009016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLD0802		ID8D009017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8D009018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8D009019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8D009020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8D009021			1	☒	3XIDL	None
22	9	2	9	1	QC	IPD012SB		ID8D009022			1	☒	1/2LOQ	None
23	10	2	10	1	QC	IPD012SL		ID8D009023			1	☒	LCS	None
24	11	2	11	1	QC	IPD012SC		ID8D009024			1	☒	LCS	None
25	12	2	12	1	Unk	D019-02A	dried & sieved	ID8D009025			1	☒	unk	---
26	13	2	1	2	Unk	D019-02	dried & sieved	ID8D009026			1	☒	unk	---
27	14	2	2	2	Unk	D019-02J	dried & sieved	ID8D009027			1	☒	unk	---
28	15	2	3	2	Unk	D019-04	dried & sieved	ID8D009028			1	☒	unk	---
29	16	2	4	2	Unk	D019-06	dried & sieved	ID8D009029			1	☒	unk	---
30	17	2	5	2	Unk	D019-07	dried & sieved	ID8D009030			1	☒	unk	---
31	18	2	6	2	Blank	Blank		ID8D009031			1	☐		---
32	19	2	7	2	QC	CCV2		ID8D009032			1	☒	CCV	None
33	20	2	8	2	QC	CCB2		ID8D009033			1	☒	3XIDL	None
34	21	2	9	2	Unk	D019-08	dried & sieved	ID8D009034			1	☒	unk	---
35	22	2	10	2	Unk	D008-01		ID8D009035			1	☒	unk	---
36	23	2	11	2	Unk	D008-01M		ID8D009036			1	☒	unk	---
37	24	2	12	2	Unk	D008-01S		ID8D009037			1	☒	unk	---
38	25	2	1	3	Unk	D008-02		ID8D009038			1	☒	unk	---
39	26	2	2	3	Unk	D008-03		ID8D009039			1	☒	unk	---

7055

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	ConFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	D008-04		ID8D009040			1	☒	unk	---
41	28	2	4	3	Unk	D008-05		ID8D009041			1	☒	unk	---
42	29	2	5	3	Blank	Blank		ID8D009042			1	☐		---
43	30	2	6	3	QC	CCV3		ID8D009043			1	☒	CCV	None
44	31	2	7	3	QC	CCB3		ID8D009044			1	☒	3XIDL	None
45	32	2	8	3	QC	IPD011SB		ID8D009045			1	☒	1/2LOQ	None
46	33	2	9	3	QC	IPD011SL		ID8D009046			1	☒	LCS	None
47	34	2	10	3	QC	IPD011SC		ID8D009047			1	☒	LCS	None
48	35	2	11	3	Unk	D032-02A		ID8D009048			1	☒	unk	---
49	36	2	12	3	Unk	D032-02		ID8D009049			1	☒	unk	---
50	37	2	1	4	Unk	D032-02J		ID8D009050			1	☒	unk	---
51	38	2	2	4	Unk	D032-02M		ID8D009051			1	☒	unk	---
52	39	2	3	4	Unk	D032-02S		ID8D009052			1	☒	unk	---
53	40	2	4	4	Unk	D032-01		ID8D009053			1	☒	unk	---
54	41	2	5	4	Blank	Blank		ID8D009054			1	☐		---
55	42	2	6	4	QC	CCV4		ID8D009055			1	☒	CCV	None
56	43	2	7	4	QC	CCB4		ID8D009056			1	☒	3XIDL	None
57	44	2	8	4	Unk	D029-17		ID8D009057			1	☒	unk	---
58	45	2	9	4	Unk	D029-18		ID8D009058			1	☒	unk	---
59	46	2	10	4	Unk	D029-19		ID8D009059			1	☒	unk	---
60	47	2	11	4	Unk	D029-20		ID8D009060			1	☒	unk	---
61	48	2	12	4	Unk	D029-21		ID8D009061			1	☒	unk	---
62	49	2	1	5	Unk	D029-22		ID8D009062			1	☒	unk	---
63	50	2	2	5	Unk	D029-23		ID8D009063			1	☒	unk	---
64	51	2	3	5	Unk	D029-24		ID8D009064			1	☒	unk	---
65	52	2	4	5	Unk	D029-25		ID8D009065			1	☒	unk	---
66	53	2	5	5	Blank	Blank		ID8D009066			1	☐		---
67	54	2	6	5	QC	CCV5		ID8D009067			1	☒	CCV	None
68	55	2	7	5	QC	CCB5		ID8D009068			1	☒	3XIDL	None
69	57	2	9	5	QC	IPD009SQ	plasma off	ID8D009069			1	☒	1/2LOQ	None
70	58	2	10	5	QC	IPD009SX		ID8D009070			1	☒	LCS	None
71	59	2	11	5	QC	IPD009SY		ID8D009071			1	☒	LCS	None
72	60	2	12	5	Unk	D029-16A		ID8D009072			1	☒	unk	---
73	61	3	1	1	Unk	D029-16W		ID8D009073			1	☒	unk	---
74	62	3	2	1	Unk	D029-16J		ID8D009074			1	☒	unk	---
75	63	3	3	1	Unk	D029-16G		ID8D009075			1	☒	unk	---
76	64	3	4	1	Unk	D029-16H		ID8D009076			1	☒	unk	---
77	56	2	8	5	Unk	D029-26		ID8D009077			1	☒	unk	---
78	65	3	5	1	Blank	Blank		ID8D009078			1	☐		---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	66	3	6	1	QC	CCV6		ID8D009079			1	☒	CCV	None
80	67	3	7	1	QC	CCB6		ID8D009080			1	☒	3XIDL	None
81	68	3	8	1	Unk	D029-01W		ID8D009081			1	☒	unk	---
82	69	3	9	1	Unk	D029-02W		ID8D009082			1	☒	unk	---
83	70	3	10	1	Unk	D029-03W		ID8D009083			1	☒	unk	---
84	71	3	11	1	Unk	D029-04W		ID8D009084			1	☒	unk	---
85	72	3	12	1	Unk	D029-05W		ID8D009085			1	☒	unk	---
86	73	3	1	2	Unk	D029-06W		ID8D009086			1	☒	unk	---
87	74	3	2	2	Unk	D029-07W		ID8D009087			1	☒	unk	---
88	75	3	3	2	Unk	D029-08W		ID8D009088			1	☒	unk	---
89	76	3	4	2	Unk	D029-09W		ID8D009089			1	☒	unk	---
90	77	3	5	2	Blank	Blank		ID8D009090			1	☐		---
91	78	3	6	2	QC	CCV7		ID8D009091			1	☒	CCV	None
92	79	3	7	2	QC	CCB7		ID8D009092			1	☒	3XIDL	None
93	80	3	8	2	Unk	D029-10W		ID8D009093			1	☒	unk	---
94	81	3	9	2	Unk	D029-11W		ID8D009094			1	☒	unk	---
95	82	3	10	2	Unk	D029-12W		ID8D009095			1	☒	unk	---
96	83	3	11	2	Unk	D029-13W		ID8D009096			1	☒	unk	---
97	84	3	12	2	Unk	D029-14W		ID8D009097			1	☒	unk	---
98	85	3	1	3	Unk	D029-15W		ID8D009098			1	☒	unk	---
99	86	3	2	3	Blank	Blank		ID8D009099			1	☐		---
100	87	3	3	3	QC	CCV8		ID8D009100			1	☒	CCV	None
101	88	3	4	3	QC	CCB8		ID8D009101			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00158	.00000	-.00001	.00036	.00011	.00015	-.00004	.00186	.00002	-.00089	Blank
2	S20					.88615		.13242				S20
3	S21					8.6912		1.2671				S21
4	S22				.50913						.16033	S22
5	S23				5.0159						1.6729	S23
6	S24						.10035					S24
7	S25						1.0466					S25
8	S26	.27218							1.0497	.15016		S26
9	S27	9.7003							9.6149	1.4385		S27
10	S28		.00593									S28
11	S29		.05859									S29
12	S30			.00139								S30
13	S31			.00556								S31
14	ICV	106.67	1.4670	1.0261	1.9596	1.5113	2.4354	1.9844	75.153	2.4332	.92885	ICV
15	ICB	.02133	.00123	.00100	.00009	.00026*	.00504	.00011	-.05299	.00029	.00005	ICB
16	MRLD0801	.22767	.10188	.01170	.01031	.01030	.01382*	.01060	.98047	.01050	.00926	MRLD0801
17	MRLD0802	.23570	.05202	.01026	.00561	.00432	.09904	.00538	.50841	.01046	.00915	MRLD0802
18	ICSA1	399.81	.00653	-.00115	.00078	-.00008	-.00076	-.00162	470.33	-.00017	-.00012	ICSA1
19	ICSAB1	404.21	1.0369	1.0640	.52900	.50169	.49676	.97862	478.34	.48104	.47123	ICSAB1
20	CCV1	106.65	1.5215	1.0468	1.9897	1.5060	2.4768	1.9880	76.954	2.4734	.96441	CCV1
21	CCB1	.01908	.00134	.00029	-.00006	.00007	.00472	.00003	-.04609	-.00002	-.00005	CCB1
22	IPD012SB	.03679	.00076	.00113	-.00013	.00003	.00442	-.00015	-.04616	.00069	-.00013	IPD012SB
23	IPD012SL	5.2913	2.4354	.50693	.50754	.52388	.46957	.51390	51.560	.51585	.49724	IPD012SL
24	IPD012SC	5.2380	2.4065	.50218	.50486	.52020	.46158	.51185	50.366	.51332	.49431	IPD012SC
25	D019-02A	76.104	2.4241	.62212	1.0901	.53087	.48743	.55393	242.59	.85218	.66836	D019-02A
26	D019-02	73.534	.01673	.11101	.60052	.00785	.02253	.07543	205.39	.36959	.17976	D019-02
27	D019-02J	14.823	.00356	.02254	.11824	.00154	.00439	.01535	42.298	.07512	.03455	D019-02J
28	D019-04	59.829	.01226	.09682	.66628	.00794	.02129	.03378	44.679	.33940	.10045	D019-04
29	D019-06	73.465	.01447	.06879	2.6233	.00772	.01927	.15353	43.628	.23689	.12457	D019-06
30	D019-07	80.218	.01330	.05826	1.3468	.00759	.01868	.13747	26.952	.21625	.10344	D019-07
31	Blank	.02269	.00052	.00040	.00020	-.00001	.00006	-.00001	.14217	-.00010	.00013	Blank
32	CCV2	107.69	1.5263	1.0498	1.9930	1.5134	2.4710	2.0008	76.998	2.4765	.96195	CCV2
33	CCB2	.02012	.00110	.00168	.00003	.00014	.00372	.00010	-.04154	.00007	.00007	CCB2
34	D019-08	72.956	.01016	.05885	.98495	.00687	.02045	.12973	27.118	.13476	.05279	D019-08
35	D008-01	136.22	.01547	.05966	1.3267	.00604	.05844	.04711	115.45	1.5766	.05465	D008-01
36	D008-01M	154.20	1.9427	.55195	1.8306	.51468	.50114	.51871	160.69	2.2349	.52909	D008-01M
37	D008-01S	146.50	1.8943	.55160	1.7853	.51625	.49885	.52180	165.71	1.9392	.53133	D008-01S
38	D008-02	144.93	.01837	.05800	1.4567	.00648	.07099	.05293	134.13	1.6832	.05768	D008-02
39	D008-03	221.95	.00475	.11365	1.6107	.01107	.12915	.00351	135.39	6.4775	.11969	D008-03
40	D008-04	23.097	.00234	.02460	.37210	.00175	.01623	-.00016	14.716	.88218	.02832	D008-04
41	D008-05	88.380	.00531	.06450	1.3453	.00576	.03452	.00032	214.74	.14232	.04497	D008-05
42	Blank	.06253	.00074	.00098	.00054	-.00003	.00000	.00001	.14858	.00053	.00019	Blank
43	CCV3	105.97	1.5201	1.0567	1.9793	1.5083	2.4622	2.0097	76.770	2.4660	.95926	CCV3
44	CCB3	.01057	.00129	.00025	-.00017	.00008	.00380	.00003	-.04985	-.00007	-.00004	CCB3
45	IPD011SB	.02169	.00061	.00021	-.00024	-.00001	.00397	-.00016	-.07007	.00055	-.00017	IPD011SB
46	IPD011SL	5.1428	2.3627	.49384	.49527	.51161	.45854	.50284	50.351	.50412	.48739	IPD011SL
47	IPD011SC	5.2032	2.3903	.50169	.49927	.51946	.46376	.50757	50.786	.50981	.49423	IPD011SC
48	D032-02A	72.246	2.4114	.54507	1.0410	.52036	.50215	.49741	128.98	.61762	.53244	D032-02A
49	D032-02	67.100	.00572	.02969	.55326	.00212	.03745	-.00077	81.831	.12084	.04139	D032-02
50	D032-02J	13.875	.00102	.00749	.11227	.00052	.00819	-.00030	17.133	.02508	.00825	D032-02J
51	D032-02M	89.017	2.1843	.54157	1.1453	.52004	.50770	.49538	138.07	.65057	.53451	D032-02M
52	D032-02S	94.267	2.1455	.55611	1.2083	.51984	.50466	.49218	164.08	.66690	.53521	D032-02S
53	D032-01	84.951	.00669	.04382	.73029	.00268	.04863	-.00116	91.789	.15888	.05321	D032-01
54	Blank	.01522	.00070	.00179	.00019	.00003	.00072	.00004	.10827	-.00012	.00015	Blank

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
55	CCV4	105.48	1.5137	1.0595	1.9568	1.5099	2.4557	2.0384	77.928	2.4944	.95019	CCV4
56	CCB4	.01196	.00142	.00099	-.00006	.00012	.00495	.00009	-.04682	.00009	.00001	CCB4
57	D029-17	78.278	.00751	.07351	1.0192	.00806	.01282	-.00134	18.983	.21653	.06582	D029-17
58	D029-18	63.472	.00617	.06314	1.5355	.00610	.02790	.00740	25.758	.12534	.07961	D029-18
59	D029-19	67.701	.00748	.07911	1.2540	.00717	.01162	.00161	23.078	.19665	.12148	D029-19
60	D029-20	58.441	.00547	.06044	1.1483	.00603	.01067	.00702	22.269	.12407	.06010	D029-20
61	D029-21	66.857	.00631	.07975	1.0642	.00692	.00928	.00115	16.526	.18222	.05039	D029-21
62	D029-22	64.865	.00667	.06754	.88336	.00659	.01242	.00449	17.697	.14867	.05092	D029-22
63	D029-23	63.912	.00629	.06075	.87229	.00645	.00939	.00043	12.018	.13723	.05626	D029-23
64	D029-24	49.534	.00903	.06833	.90883	.00471	.06110	.02900	13.154	.16982	.05492	D029-24
65	D029-25	43.602	.00886	.07182	.64457	.00396	.00939	.02598	12.468	.13785	.03120	D029-25
66	Blank	.01979	-.00002	.00063	.00045	.00001	-.00012	-.00002	.09664	-.00007	.00005	Blank
67	CCV5	105.35	1.4857	1.0455	1.9557	1.5047	2.4514	1.9933	76.658	2.4703	.95652	CCV5
68	CCB5	.01335	.00058	.00044	.00035	.00024*	.00477	.00014	.08278	-.00015	.00004	CCB5

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00137	.00003	.00016	.00010	.00001	.00002	.00000	-.00053	-.00033	.00001	Blank
2	S20			.19843			.11780					S20
3	S21			1.9668			1.1725					S21
4	S22	.36058	.05566									S22
5	S23	3.4988	2.1422									S23
6	S24							.73717				S24
7	S25							7.3751				S25
8	S26								.78747	.34059		S26
9	S27								7.5158	3.4127		S27
10	S28					.10713						S28
11	S29					.44169						S29
12	S30				.02910						.00156	S30
13	S31				.14231						.00614	S31
14	ICV	2.5145	24.882	2.3668	.51370	56.562	2.3388	2.4501	2.4380	57.708	1.0150	ICV
15	ICB	.00030	-.00253	-.00047	.00020	.00388	.00034	.00056	.00004	.07255	-.00148	ICB
16	MRLD0801	.01074	.21352	.01023	.01042	.97236	.00986	.01023	.00994	.96222	.00831	MRLD0801
17	MRLD0802	.01124	.10410	.00311	.10013	.19601	.00531	.00982	.01028	.96793	.00862	MRLD0802
18	ICSA1	.00099	191.98	.00001	.00472	190.32	.00175	-.00125	.00010	-.06524	-.00238	ICSA1
19	ICSAB1	.54631	191.09	.93703	1.1069	189.89	.45981	1.0234	.99068	77.462	1.0526	ICSAB1
20	CCV1	2.5590	24.949	2.3905	.52398	56.801	2.4153	2.5180	2.4700	59.236	1.0339	CCV1
21	CCB1	.00020	-.00385	-.00054	-.00010	.00153	.00007	.00048	-.00026	.05666	-.00170	CCB1
22	IPD012SB	.00002	.01224	-.00055	-.00017	.01022	.00009	.00046	-.00015	.06539	.00050	IPD012SB
23	IPD012SL	.52673	5.1393	.49756	-.00020*	48.133	.49250	.54063	.46516	49.203	.49629	IPD012SL
24	IPD012SC	.52335	5.1117	.49311	.00029*	46.824	.48975	.53157	.46138	47.783	.49319	IPD012SC
25	D019-02A	.68600	218.98	2.0261	.03640	73.698	4.8935	.54261	.60852	57.297	.51001	D019-02A
26	D019-02	.14022	224.36	1.6152	.03701	27.286	4.6342	.00940	.14447	7.2478	.00339	D019-02
27	D019-02J	.02733	46.987	.32482	.00647	5.5765	.94878	.00170	.02757	1.3884	-.00034	D019-02J
28	D019-04	.11096	212.95	.72520	.02327	6.2412	4.8367	.00881	.13089	7.4910	.00177	D019-04
29	D019-06	.13525	158.18	3.3113	.04324	15.475	13.778	.00753	.13668	9.5639	.00404	D019-06
30	D019-07	.13033	155.54	2.2377	.03956	11.196	8.5068	.00580	.11830	10.407	.00313	D019-07
31	Blank	.00009	.02681	-.00023	.00015	.00777	.00115	-.00003	-.00012	-.00186	-.00175	Blank
32	CCV2	2.5622	25.044	2.3869	.52111	57.443	2.4230	2.5174	2.4670	58.977	1.0387	CCV2
33	CCB2	.00023	-.00116	-.00051	-.00082	.00195	.00039	.00045	-.00011	.05294	-.00199	CCB2
34	D019-08	.13243	120.48	.74916	.03201	5.5338	2.9593	.00509	.08571	7.1537	.00451	D019-08
35	D008-01	2.1038	171.18	1.0122	.12006	30.309	1.7607	.00842	.27148	24.503	.00815	D008-01
36	D008-01M	2.5722	175.65	1.3824	.12787	77.722	2.2121	.51164	.69742	73.929	.49006	D008-01M
37	D008-01S	2.4336	167.31	1.4048	.12401	76.862	2.1941	.51372	.69756	73.301	.49681	D008-01S
38	D008-02	2.1174	185.52	1.3159	.12842	32.911	1.9144	.00890	.28102	26.717	.01067	D008-02
39	D008-03	1.9819	291.72	.24552	.26101	72.265	5.1759	.01116	.30182	42.325	.00262	D008-03
40	D008-04	.08988	57.964	.04265	.02114	6.6317	1.7002	.01705	.35045	4.6045	-.00015	D008-04
41	D008-05	.13034	127.10	.10004	.07638	26.434	2.0553	.00693	.10130	17.676	.00238	D008-05
42	Blank	.00034	.07726	-.00044	-.00009	.00708	.00077	.00005	-.00016	.01609	-.00120	Blank
43	CCV3	2.5329	25.105	2.3876	.51407	57.425	2.4151	2.5180	2.4628	58.555	1.0408	CCV3
44	CCB3	.00006	-.00604	-.00052	-.00041	-.00494	.00009	.00044	-.00034	.04081	-.00157	CCB3
45	IPD011SB	.00113	.00009	-.00060	-.00082	-.00178	.00021	.00034	-.00018	.04043	-.00107	IPD011SB
46	IPD011SL	.51182	5.0444	.48927	.00018*	47.172	.48059	.52774	.45596	48.200	.48474	IPD011SL
47	IPD011SC	.51671	5.1121	.49552	-.00011*	47.985	.48702	.53753	.46229	48.486	.49088	IPD011SC
48	D032-02A	.60241	117.71	.51965	.10639	101.21	1.9353	.53824	.55429	73.303	.49843	D032-02A
49	D032-02	.07637	117.85	.02561	.10539	54.666	1.5209	.00454	.08721	24.028	-.00200	D032-02
50	D032-02J	.01547	24.837	.00541	.02035	11.366	.31793	.00075	.01705	4.8231	-.00091	D032-02J
51	D032-02M	.61449	144.84	.51867	.13355	114.12	2.2916	.52923	.55395	77.815	.48721	D032-02M
52	D032-02S	.61970	156.98	.51657	.14630	121.53	2.4417	.52684	.56164	80.937	.48595	D032-02S
53	D032-01	.10081	156.07	.02911	.13524	70.233	1.9259	.01010	.11192	31.321	-.00129	D032-01
54	Blank	-.00013	.01680	-.00062	.00003	.01029	.00033	.00001	-.00012	.02508	-.00195	Blank

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
55	CCV4	2.4787	25.440	2.3785	.50566	58.739	2.4374	2.4845	2.4429	58.584	1.0408	CCV4
56	CCB4	.00004	-.00399	-.00054	-.00053	.00358	.00026	.00047	-.00012	.05712	-.00081	CCB4
57	D029-17	.04628	173.55	.15684	.03131	5.2313	3.8236	.00644	.06265	4.4303	.00349	D029-17
58	D029-18	.05780	125.52	.28862	.02501	5.9329	8.2546	.00491	.04784	4.5662	.00325	D029-18
59	D029-19	.04981	160.68	.27588	.02370	5.2204	7.0351	.00703	.05354	3.6882	.00369	D029-19
60	D029-20	.05568	106.52	.29620	.02192	4.9390	5.4548	.00426	.04897	4.0412	.00358	D029-20
61	D029-21	.04915	162.45	.19474	.02465	4.9254	4.5326	.00548	.06122	3.7973	.00383	D029-21
62	D029-22	.07032	145.84	.25782	.03036	5.0475	2.7036	.00612	.06448	3.3436	.00265	D029-22
63	D029-23	.05244	148.73	.18871	.02933	4.5584	2.6078	.00572	.05240	3.1165	.00175	D029-23
64	D029-24	.04551	146.41	.44787	.01917	3.7968	3.6165	.00631	.04229	3.4913	.00214	D029-24
65	D029-25	.03902	127.34	.40747	.01744	3.4920	2.2919	.00613	.03350	3.4353	.00167	D029-25
66	Blank	-.00018	.05769	-.00046	-.00062	-.00697	.00104	-.00001	-.00010	-.02180	-.00171	Blank
67	CCV5	2.4594	25.434	2.4022	.50424	58.289	2.4201	2.5197	2.4644	58.867	1.0278	CCV5
68	CCB5	.00040	.00118	-.00020	.00012	.00127	.00045	.00048	.00005	.03007	-.00234	CCB5

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00057	.00000	-.00002	.00013	.00002	-.00024	.00279	Blank
2	S20									S20
3	S21									S21
4	S22							.15539		S22
5	S23							1.5598		S23
6	S24		1.1007							S24
7	S25		6.3414							S25
8	S26									S26
9	S27									S27
10	S28				.00648					S28
11	S29				.06229					S29
12	S30	.04725		.14633		.02321	.01625		.58425	S30
13	S31	.23055		.70997		.11306	.08026		5.6849	S31
14	ICV	.50080	62.105	.48268	2.3217	.48320	.49156	1.4730	2.6103	ICV
15	ICB	.00033	.02764	.00028	.00094	-.00026	.00003	.00027	-.00192	ICB
16	MRLD0801	.01020	1.0478	.01011	.01195	-.00059	.01021	.01033	.01807	MRLD0801
17	MRLD0802	.01017	.52727	.01032	.01183	.00900	.01013	.01053	.01060	MRLD0802
18	ICSA1	.00009	.11181	.00116	.00263	.00214	.00282	-.00067	-.00096	ICSA1
19	ICSAB1	1.1073	82.627	.49362	.85643	.97733	.97920	.49878	1.0594	ICSAB1
20	CCV1	.51114	63.332	.49508	2.3556	.49496	.49670	1.4954	2.6229	CCV1
21	CCB1	-.00006	.03529	-.00009	.00064	-.00040	.00007	.00004	-.00299	CCB1
22	IPD012SB	-.00030	.06294	-.00007	-.00034	.04048	-.00010	.00012	-.00190	IPD012SB
23	IPD012SL	.49410	52.649	.48111	.48077	.53591	.51404	.52638	.55439	IPD012SL
24	IPD012SC	.48977	51.173	.47479	.47833	.52552	.50772	.52344	.54973	IPD012SC
25	D019-02A	.49801	54.606	.59739	.44227	.52723	1.7564	.84203	15.128	D019-02A
26	D019-02	-.00006	.90485	.12423	.00009	.04728	1.3039	.34095	15.133	D019-02
27	D019-02J	-.00013	.17810	.02426	.00098	.00910	.26112	.06797	2.9921	D019-02J
28	D019-04	-.00004	.58457	.06931	.00118	.04861	1.0989	.29365	7.5246	D019-04
29	D019-06	-.00129	.60729	.08290	-.00285	.04634	1.9281	.28549	24.854	D019-06
30	D019-07	-.00059	.71694	.06898	.00113	.04760	2.1977	.27128	19.931	D019-07
31	Blank	.00004	.00416	-.00001	.00062	-.00044	.00063	.00015	.00650	Blank
32	CCV2	.51058	63.080	.49348	2.3739	.49494	.49923	1.4979	2.6245	CCV2
33	CCB2	-.00007	.02257	-.00004	.00096	-.00043	-.00007	.00019	-.00281	CCB2
34	D019-08	.00003	.47243	.09069	.00046	.07814	1.1684	.20827	16.856	D019-08
35	D008-01	-.00001	1.5121	.61080	.00032	.10343	2.4312	.26915	2.0383	D008-01
36	D008-01M	.50221	53.657	1.0674	.43461	.56409	2.8683	.77379	2.4980	D008-01M
37	D008-01S	.50431	53.728	1.0881	.43729	.57097	2.7664	.76126	2.4283	D008-01S
38	D008-02	.00047	1.6944	.69226	.00116	.10602	2.5996	.28779	2.1813	D008-02
39	D008-03	-.00028	3.0220	.71160	.00421	.05419	3.3630	.61017	4.2851	D008-03
40	D008-04	-.00064	.55367	.12863	-.00072	.04361	1.0594	.10997	.20762	D008-04
41	D008-05	-.00053	1.9429	.61450	-.00003	.04803	2.1335	.27259	.43443	D008-05
42	Blank	-.00013	.00489	.00017	.00074	-.00018	.00090	.00027	.00351	Blank
43	CCV3	.50751	62.495	.48950	2.3880	.49800	.49870	1.4856	2.6331	CCV3
44	CCB3	.00000	.02004	-.00011	.00042	-.00049	.00002	.00003	-.00295	CCB3
45	IPD011SB	-.00029	.04439	-.00005	-.00035	.04063	.00015	.00008	-.00115	IPD011SB
46	IPD011SL	.48241	51.460	.46978	.46863	.52747	.50185	.51159	.54645	IPD011SL
47	IPD011SC	.48699	51.836	.47216	.47500	.53883	.50956	.51607	.55400	IPD011SC
48	D032-02A	.48395	61.530	.74400	.45854	.54241	7.2242	.70603	.88507	D032-02A
49	D032-02	-.00018	8.8046	.27544	.00265	.04544	6.9457	.20357	.33412	D032-02
50	D032-02J	-.00009	1.7738	.05614	.00157	.00861	1.4144	.04189	.06313	D032-02J
51	D032-02M	.50514	63.342	.78654	.45359	.54151	9.5229	.75834	.96342	D032-02M
52	D032-02S	.50483	64.440	.83766	.45041	.54094	10.150	.77618	1.0051	D032-02S
53	D032-01	-.00008	12.177	.32517	.00295	.04857	8.9334	.26781	.43461	D032-01
54	Blank	-.00006	.01229	.00001	.00089	-.00039	.00164	.00008	.00351	Blank

55	CCV4	.50458	62.311	.48474	2.4133	.49750	.49813	1.4851	2.6595	CCV4
56	CCB4	.00009	.02256	-.00012	.00108	-.00031	.00020	.00013	-.00299	CCB4
57	D029-17	-.00031	.21588	.07383	.00199	.04606	1.3068	.32893	.36518	D029-17
58	D029-18	-.00058	.28562	.08718	.00027	.04682	.85450	.30919	1.7628	D029-18
59	D029-19	-.00060	.41412	.08927	.00149	.04575	.86417	.38319	.91463	D029-19
60	D029-20	-.00043	.36363	.07665	-.00023	.04529	.80851	.26945	1.5942	D029-20
61	D029-21	-.00051	.44427	.06906	.00180	.04520	.83214	.38118	.86602	D029-21
62	D029-22	-.00020	.34252	.08413	.00102	.04440	.65826	.30304	1.4541	D029-22
63	D029-23	-.00043	.34722	.07403	.00064	.04512	.65515	.32745	.76200	D029-23
64	D029-24	-.00028	.33660	.05142	.00202	.04834	.71554	.28481	4.3400	D029-24
65	D029-25	-.00031	.27880	.04583	.00107	.04554	.71569	.27157	3.9691	D029-25
66	Blank	.00000	-.00382	-.00001	.00030	-.00027	.00054	.00016	.00412	Blank
67	CCV5	.50177	62.432	.48415	2.3772	.51059	.49776	1.4679	2.6747	CCV5
68	CCB5	.00003	.02121	-.00002	.00099	-.00003	.00001	.00015	.00211	CCB5
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

IDBD009 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/8/11 13:21

End Date: 4/8/11 18:03

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

CS8-10 Ca>LDR. Needs dilution since Ca interfers w/ Pb.

Book #: AD8-019

Instrument No.: D8

Analytical Batch: 1D8D010

Analytical Sequence: S11D6010(V10)

Method File: 11D6010(V10)

Database: EMAX13

	STANDARDS ID		STANDARDS ID
S0	SM1B145D02	S30	SM1B144201
S1	NA	S31	4202
S2		ICV	2701
S3		CCV	4803
S4		ICSA	5001
S5		ICSAB	4601
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL35	SM1B144109
S10		MRL4,6	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B143102		
S21	3702		
S22	3703		
S23	3704		
S24	4001		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Analyzed By: TH

Date: 4/8/11

SEQUENCE FILE : ID8D010

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8D010001	Blank	13:21	04/08/11	1.000
ID8D010002	S20	13:24	04/08/11	1.000
ID8D010003	S21	13:27	04/08/11	1.000
ID8D010004	S22	13:30	04/08/11	1.000
ID8D010005	S23	13:33	04/08/11	1.000
ID8D010006	S24	13:36	04/08/11	1.000
ID8D010007	S25	13:39	04/08/11	1.000
ID8D010008	S26	13:42	04/08/11	1.000
ID8D010009	S27	13:44	04/08/11	1.000
ID8D010010	S28	13:48	04/08/11	1.000
ID8D010011	S29	13:50	04/08/11	1.000
ID8D010012	S30	13:53	04/08/11	1.000
ID8D010013	S31	13:56	04/08/11	1.000
ID8D010014	ICV	13:59	04/08/11	1.000
ID8D010015	ICB	14:02	04/08/11	1.000
ID8D010016	MRLD0803	14:04	04/08/11	1.000
ID8D010017	MRLD0804	14:07	04/08/11	1.000
ID8D010018	ICSA1	14:10	04/08/11	1.000
ID8D010019	ICSAB1	14:13	04/08/11	1.000
ID8D010020	CCV1	14:16	04/08/11	1.000
ID8D010021	CCB1	14:19	04/08/11	1.000
ID8D010022	IPD009SQ	14:22	04/08/11	1.000
ID8D010023	IPD009SX	14:24	04/08/11	1.000
ID8D010024	IPD009SY	14:27	04/08/11	1.000
ID8D010025	D029-16A	14:30	04/08/11	1.000
ID8D010026	D029-16W	14:32	04/08/11	1.000
ID8D010027	D029-16J	14:35	04/08/11	5.000
ID8D010028	D029-16G	14:38	04/08/11	1.000
ID8D010029	D029-16H	14:40	04/08/11	1.000
ID8D010030	D029-26	14:43	04/08/11	1.000
ID8D010031	Blank	14:46	04/08/11	1.000
ID8D010032	CCV2	14:49	04/08/11	1.000
ID8D010033	CCB2	14:51	04/08/11	1.000
ID8D010034	D029-01W	14:54	04/08/11	1.000
ID8D010035	D029-02W	14:57	04/08/11	1.000
ID8D010036	D029-03W	15:00	04/08/11	1.000
ID8D010037	D029-04W	15:02	04/08/11	1.000
ID8D010038	D029-05W	15:05	04/08/11	1.000
ID8D010039	D029-06W	15:08	04/08/11	1.000
ID8D010040	D029-07W	15:11	04/08/11	1.000
ID8D010041	D029-08W	15:13	04/08/11	1.000
ID8D010042	D029-09W	15:16	04/08/11	1.000
ID8D010043	Blank	15:19	04/08/11	1.000
ID8D010044	CCV3	15:22	04/08/11	1.000
ID8D010045	CCB3	15:24	04/08/11	1.000
ID8D010046	D029-10W	15:27	04/08/11	1.000
ID8D010047	D029-11W	15:30	04/08/11	1.000
ID8D010048	D029-12W	15:33	04/08/11	1.000
ID8D010049	D029-13W	15:36	04/08/11	1.000
ID8D010050	D029-14W	15:39	04/08/11	1.000
ID8D010051	D029-15W	15:41	04/08/11	1.000
ID8D010052	Blank	15:44	04/08/11	1.000
ID8D010053	CCV4	15:47	04/08/11	1.000
ID8D010054	CCB4	15:50	04/08/11	1.000

ID8D010055	IPD010SB	15:52	04/08/11	1.000
ID8D010056	IPD010SL	15:55	04/08/11	1.000
ID8D010057	IPD010SC	15:58	04/08/11	1.000
ID8D010058	MDLV-01	16:00	04/08/11	1.000
ID8D010059	MDLV-02	16:03	04/08/11	1.000
ID8D010060	MDLV-03	16:06	04/08/11	1.000
ID8D010061	LOD3050	16:09	04/08/11	1.000
ID8D010062	LOQ3050	16:12	04/08/11	1.000
ID8D010063	Blank	16:15	04/08/11	1.000
ID8D010064	CCV5	16:18	04/08/11	1.000
ID8D010065	CCB5	16:20	04/08/11	1.000
ID8D010066	IPD013WB	16:23	04/08/11	1.000
ID8D010067	IPD013WL	16:26	04/08/11	1.000
ID8D010068	IPD013WC	16:29	04/08/11	1.000
ID8D010069	MDLV-01	16:31	04/08/11	1.000
ID8D010070	MDLV-02	16:34	04/08/11	1.000
ID8D010071	LOD3010	16:37	04/08/11	1.000
ID8D010072	LOQ3010	16:40	04/08/11	1.000
ID8D010073	LOQ3050W	16:43	04/08/11	1.000
ID8D010074	Blank	16:46	04/08/11	1.000
ID8D010075	CCV6	16:49	04/08/11	1.000
ID8D010076	CCB6	16:52	04/08/11	1.000
ID8D010077	IPD014WB	16:54	04/08/11	1.000
ID8D010078	IPD014WL	16:57	04/08/11	1.000
ID8D010079	IPD014WC	17:00	04/08/11	1.000
ID8D010080	MDLV-01	17:02	04/08/11	1.000
ID8D010081	MDLV-02	17:05	04/08/11	1.000
ID8D010082	LOD3005	17:08	04/08/11	1.000
ID8D010083	LOQ3005	17:11	04/08/11	1.000
ID8D010084	Blank	17:15	04/08/11	1.000
ID8D010085	MRLD0805	17:17	04/08/11	1.000
ID8D010086	MRLD0806	17:20	04/08/11	1.000
ID8D010087	CCV7	17:23	04/08/11	1.000
ID8D010088	CCB7	17:26	04/08/11	1.000
ID8D010089	IPD019SB	17:29	04/08/11	1.000
ID8D010090	IPD019SL	17:32	04/08/11	1.000
ID8D010091	IPD019SC	17:34	04/08/11	1.000
ID8D010092	C581-10A	17:37	04/08/11	1.000
ID8D010093	C581-10	17:39	04/08/11	1.000
ID8D010094	C581-10J	17:42	04/08/11	5.000
ID8D010095	C581-10A	17:49	04/08/11	5.000
ID8D010096	C581-10T	17:52	04/08/11	5.000
ID8D010097	C581-10J	17:55	04/08/11	25.00
ID8D010098	Blank	17:57	04/08/11	1.000
ID8D010099	CCV8	18:00	04/08/11	1.000
ID8D010100	CCBB	18:03	04/08/11	1.000

VERSON : 7A1 UNIT : % SUMMARY of ICV and CCV : ID80010 DATE : 04/08/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	98	104	99	100	98	97	100	97	94	99	98	96	103	95	94	99	99	99	102	101	104	98	92	98	99	96	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	92	----	----	----	93	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	98	100	104	104	98	99	92	92	93	94	104	93	94	108	94	90	103	98	103	104	108	107	97	83	99	97	95	105
CCV1	105	99	104	98	98	98	95	98	95	96	98	98	96	102	94	94	101	99	98	104	100	103	97	92	101	99	94	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD009SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD009SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD009SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	98	104	99	98	98	95	98	96	96	98	99	97	102	94	95	102	99	99	104	100	103	98	93	103	99	94	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	97	103	98	98	98	94	98	96	96	97	98	97	101	95	94	102	99	99	103	100	103	97	92	103	99	94	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-11W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-12W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-13W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-14W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-15W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	96	102	98	98	97	94	98	95	97	97	98	98	101	94	94	103	100	99	102	99	102	97	91	103	99	93	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPD010SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD010SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD010SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOD3050	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3050	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	96	102	98	98	97	93	97	94	96	96	98	97	101	94	94	103	99	99	101	99	103	97	90	103	99	93	106
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD013WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD013WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOD3010	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3010	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3050W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	104	96	103	98	98	96	94	97	95	96	96	99	97	99	94	94	103	99	98	103	98	101	96	91	104	99	93	107
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOD3005	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3005	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	104	97	104	97	98	97	94	97	95	96	96	98	97	99	94	94	103	99	98	104	99	101	96	92	104	99	93	107
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD019SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD019SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD019SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	103	96	103	98	98	96	93	97	94	97	96	99	98	100	94	94	104	100	98	103	98	101	97	91	105	99	93	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 7A1 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8D010 (SOIL) DATE : 04/08/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	6.80	1.48	.960	.040	.120	5.51	.070	-42.0	.180	.020	.060	-2.50	.390	.710	9.05	.040	.450	-.070	71.3	.050	.090	26.1	.090	.280	.430	.190	.080	-1.91
MRLD0803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	5.72	1.17	1.000	-.020	5.63	-2.25	----	-.160	-.140	.960	----	-.600	6.04	----	1.74	-1.11	.360	-48.5	1.08	.260	112	1.59	1.93	2.46	2.57	-.660	-.160
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	21.5	.630	.340	.120	.180	5.33	.120	-27.3	.230	-.030	.300	7.63	.250	.380	11.9	.240	.630	.090	97.6	1.18	.030	37.3	.020	.470	.090	.550	.270	-1.97
IPD009SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD009SX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD009SY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-16H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	7.65	.920	.640	.350	.180	5.29	.040	64.4	.200	-.120	.320	1.99	.510	.330	8.83	.400	.480	.150	70.9	1.39	.040	32.4	.130	.510	.190	.010	.030	2.04
D029-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-09W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-3.45	.540	-1.86	-.050	.040	4.51	-.040	51.8	.050	-.090	.090	.970	.450	.310	5.51	.180	.340	.010	57.3	1.58	-.060	18.6	.060	.370	.040	-.330	.070	1.89
D029-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-11W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-12W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-13W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-14W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-15W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	10.4	1.16	1.02	.190	.150	4.90	.120	58.8	.350	-.080	.410	5.01	.660	.410	12.8	.280	.620	.180	62.3	1.07	.030	20.8	.080	.860	.060	.030	.270	1.86

IPD010SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD010SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD010SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOD3050	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3050	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	2.08	1.22	1.94	.040	.120	5.05	.120	55.6	.220	-.030	.180	-.980	.130	.180	1.71	.060	.470	.170	49.7	1.40	.020	19.9	.040	.600	.010	.180	.150	1.69
IPD013WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD013WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD013WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOD3010	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3010	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3050W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	14.1	1.50	.370	.500	.330	5.22	.150	66.5	.520	.050	.490	.550	.330	.390	19.6	.500	.620	.230	63.9	1.10	.090	31.8	.190	.630	.120	-.010	.310	1.73
IPD014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MDLV-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOD3005	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQ3005	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0805	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD0806	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	4.81	1.34	-.910	.060	.070	4.33	.020	54.4	.110	-.130	.160	-1.13	-.280	.160	2.78	.000	.370	-.050	41.8	1.16	-.030	20.9	.060	.290	.070	.100	-.040	1.64
IPD019SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD019SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD019SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C581-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-3.32	1.41	.490	.440	.110	4.44	-.010	192	.060	-.120	.340	.490	-.530	.170	-1.84	.250	.390	.180	75.7	-.380	.080	29.7	.140	.340	.540	.060	.090	6.55

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8D010001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8D010002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8D010003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8D010004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8D010005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8D010006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8D010007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8D010008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8D010009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8D010010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8D010011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8D010012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8D010013			1	☒	unk	—
14	121	4	1	1	QC	ICV		ID8D010014			1	☒	CCV	None
15	122	4	2	1	QC	ICB		ID8D010015			1	☒	3XIDL	None
16	123	4	3	1	QC	MRLD0803		ID8D010016			1	☒	MRL-EMAX	None
17	124	4	4	1	QC	MRLD0804		ID8D010017			1	☒	MRL-AFCEE	None
18	125	4	5	1	QC	ICSA1		ID8D010018			1	☒	ICSA	None
19	126	4	6	1	QC	ICSAB1		ID8D010019			1	☒	ICSAB	None
20	127	4	7	1	QC	CCV1		ID8D010020			1	☒	CCV	None
21	128	4	8	1	QC	CCB1		ID8D010021			1	☒	3XIDL	None
22	129	4	9	1	QC	IPD009SQ		ID8D010022			1	☒	1/2LOQ	None
23	130	4	10	1	QC	IPD009SX		ID8D010023			1	☒	LCS	None
24	131	4	11	1	QC	IPD009SY		ID8D010024			1	☒	LCS	None
25	132	4	12	1	Unk	D029-16A		ID8D010025			1	☒	unk	—
26	133	4	1	2	Unk	D029-16W		ID8D010026			1	☒	unk	—
27	134	4	2	2	Unk	D029-16J		ID8D010027			1	☒	unk	—
28	135	4	3	2	Unk	D029-16G		ID8D010028			1	☒	unk	—
29	136	4	4	2	Unk	D029-16H		ID8D010029			1	☒	unk	—
30	137	4	5	2	Unk	D029-26		ID8D010030			1	☒	unk	—
31	138	4	6	2	Blank	Blank		ID8D010031			1	☐		—
32	139	4	7	2	QC	CCV2		ID8D010032			1	☒	CCV	None
33	140	4	8	2	QC	CCB2		ID8D010033			1	☒	3XIDL	None
34	141	4	9	2	Unk	D029-01W		ID8D010034			1	☒	unk	—
35	142	4	10	2	Unk	D029-02W		ID8D010035			1	☒	unk	—
36	143	4	11	2	Unk	D029-03W		ID8D010036			1	☒	unk	—
37	144	4	12	2	Unk	D029-04W		ID8D010037			1	☒	unk	—
38	145	4	1	3	Unk	D029-05W		ID8D010038			1	☒	unk	—
39	146	4	2	3	Unk	D029-06W		ID8D010039			1	☒	unk	—

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	147	4	3	3	Unk	D029-07W		ID8D010040			1	☒	unk	---
41	148	4	4	3	Unk	D029-08W		ID8D010041			1	☒	unk	---
42	149	4	5	3	Unk	D029-09W		ID8D010042			1	☒	unk	---
43	150	4	6	3	Blank	Blank		ID8D010043			1	☐		---
44	151	4	7	3	QC	CCV3		ID8D010044			1	☒	CCV	None
45	152	4	8	3	QC	CCB3		ID8D010045			1	☒	3XIDL	None
46	153	4	9	3	Unk	D029-10W		ID8D010046			1	☒	unk	---
47	154	4	10	3	Unk	D029-11W		ID8D010047			1	☒	unk	---
48	155	4	11	3	Unk	D029-12W		ID8D010048			1	☒	unk	---
49	156	4	12	3	Unk	D029-13W		ID8D010049			1	☒	unk	---
50	157	4	1	4	Unk	D029-14W		ID8D010050			1	☒	unk	---
51	158	4	2	4	Unk	D029-15W		ID8D010051			1	☒	unk	---
52	159	4	3	4	Blank	Blank		ID8D010052			1	☐		---
53	160	4	4	4	QC	CCV4		ID8D010053			1	☒	CCV	None
54	161	4	5	4	QC	CCB4		ID8D010054			1	☒	3XIDL	None
55	162	4	6	4	QC	IPD010SB		ID8D010055			1	☒	1/2LOQ	None
56	163	4	7	4	QC	IPD010SL		ID8D010056			1	☒	LCS	None
57	164	4	8	4	QC	IPD010SC		ID8D010057			1	☒	LCS	None
58	165	4	9	4	Unk	MDLV-01	3050	ID8D010058			1	☒	unk	---
59	166	4	10	4	Unk	MDLV-02	3050	ID8D010059			1	☒	unk	---
60	167	4	11	4	Unk	MDLV-03	3050	ID8D010060			1	☒	unk	---
61	168	4	12	4	Unk	LOD3050		ID8D010061			1	☒	unk	---
62	169	4	1	5	Unk	LOQ3050		ID8D010062			1	☒	unk	---
63	170	4	2	5	Blank	Blank		ID8D010063			1	☐		---
64	171	4	3	5	QC	CCV5		ID8D010064			1	☒	CCV	None
65	172	4	4	5	QC	CCB5		ID8D010065			1	☒	3XIDL	None
66	173	4	5	5	QC	IPD013WB		ID8D010066			1	☒	1/2LOQ	None
67	174	4	6	5	QC	IPD013WL		ID8D010067			1	☒	LCS	None
68	175	4	7	5	QC	IPD013WC		ID8D010068			1	☒	LCS	None
69	176	4	8	5	Unk	MDLV-01	3010	ID8D010069			1	☒	unk	---
70	177	4	9	5	Unk	MDLV-02	3010	ID8D010070			1	☒	unk	---
71	178	4	10	5	Unk	LOD3010		ID8D010071			1	☒	unk	---
72	179	4	11	5	Unk	LOQ3010		ID8D010072			1	☒	unk	---
73	15	2	3	2	Unk	LOQ3050W		ID8D010073			1	☒	unk	---
74	180	4	12	5	Blank	Blank		ID8D010074			1	☐		---
75	1	2	1	1	QC	CCV6		ID8D010075			1	☒	CCV	None
76	2	2	2	1	QC	CCB6		ID8D010076			1	☒	3XIDL	None
77	3	2	3	1	QC	IPD014WB		ID8D010077			1	☒	1/2LOQ	None
78	4	2	4	1	QC	IPD014WL		ID8D010078			1	☒	LCS	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	5	2	5	1	QC	IPD014WC		ID8D010079			1	☒	LCS	None
80	6	2	6	1	Unk	MDLV-01	3005	ID8D010080			1	☒	unk	—
81	7	2	7	1	Unk	MDLV-02	3005	ID8D010081			1	☒	unk	—
82	8	2	8	1	Unk	LOD3005		ID8D010082			1	☒	unk	—
83	9	2	9	1	Unk	LOQ3005		ID8D010083			1	☒	unk	—
84	10	2	10	1	Blank	Blank		ID8D010084			1	☐		—
85	13	2	1	2	QC	MRLD0805		ID8D010085			1	☒	MRL-EMAX	None
86	14	2	2	2	QC	MRLD0806		ID8D010086			1	☒	MRL-AFCEE	None
87	11	2	11	1	QC	CCV7		ID8D010087			1	☒	CCV	None
88	12	2	12	1	QC	CCB7		ID8D010088			1	☒	3XIDL	None
89	25	2	1	3	QC	IPD019SB		ID8D010089			1	☒	1/2LOQ	None
90	26	2	2	3	QC	IPD019SL		ID8D010090			1	☒	LCS	None
91	27	2	3	3	QC	IPD019SC		ID8D010091			1	☒	LCS	None
92	28	2	4	3	Unk	C581-10A		ID8D010092			1	☒	unk	—
93	29	2	5	3	Unk	C581-10		ID8D010093			1	☒	unk	—
94	30	2	6	3	Unk	C581-10J		ID8D010094			1	☒	unk	—
95	34	2	10	3	Unk	C581-10A	5X	ID8D010095			1	☒	unk	—
96	35	2	11	3	Unk	C581-10T	5X	ID8D010096			1	☒	unk	—
97	36	2	12	3	Unk	C581-10J	25X	ID8D010097			1	☒	unk	—
98	31	2	7	3	Blank	Blank		ID8D010098			1	☐		—
99	32	2	8	3	QC	CCV8		ID8D010099			1	☒	CCV	None
100	33	2	9	3	QC	CCB8		ID8D010100			1	☒	3XIDL	None

ID8D010 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00173	.00001	-.00001	.00031	.00011	.00016	-.00004	.00149	.00000	-.00081	Blank
2	S20					.89691		.13805				S20
3	S21					8.8053		1.3230				S21
4	S22				.51043						.15933	S22
5	S23				4.9918						1.6563	S23
6	S24						.10124					S24
7	S25						1.0500					S25
8	S26	.27219							1.0766	.15417		S26
9	S27	9.7238							9.8324	1.4716		S27
10	S28		.00597									S28
11	S29		.05922									S29
12	S30			.00142								S30
13	S31			.00558								S31
14	ICV	105.99	1.4665	1.0375	1.9815	1.5045	2.4570	1.9388	75.114	2.4161	.93941	ICV
15	ICB	.00680	.00148	.00096	.00004	.00012	.00551	.00007	-.04202	.00018	.00002	ICB
16	MRLD0803	.21103	.09842	.01059	.01018	.01003	.01405*	.00996	.96507	.01026	.00913	MRLD0803
17	MRLD0804	.22123	.04998	.01000	.00570	.00428	.09878	.00508	.51080	.01028	.00890	MRLD0804
18	ICSA1	393.39	.00572	.00117	.00100	-.00002	.00563	-.00225	461.23	-.00016	-.00014	ICSA1
19	ICSAB1	392.79	.99649	1.0441	.52203	.48959	.49484	.92381	459.60	.46450	.46768	ICSAB1
20	CCV1	104.84	1.4791	1.0409	1.9631	1.4714	2.4392	1.9090	73.700	2.3838	.95923	CCV1
21	CCB1	.02155	.00063	.00034	.00012	.00018	.00533	.00012	-.02730	.00023	-.00003	CCB1
22	IPD009SQ	.00072	.00039	.00000	-.00006	-.00004	.00222	-.00003	-.01702	-.00004	-.00013	IPD009SQ
23	IPD009SX	5.1211	2.3365	.49566	.49877	.50812	.46247	.48503	49.472	.49764	.49511	IPD009SX
24	IPD009SY	5.0513	2.3009	.48806	.49441	.50617	.45784	.48266	49.468	.49327	.49017	IPD009SY
25	D029-16A	83.895	2.3171	.57088	2.4163	.52174	.47762	.47786	67.058	.71648	.66707	D029-16A
26	D029-16W	79.630	.01025	.06927	1.9718	.00709	.01923	.00322	18.267	.22880	.17124	D029-16W
27	D029-16J	16.948	.00175	.01533	.39866	.00155	.00444	.00049	3.7835	.04704	.03329	D029-16J
28	D029-16G	94.770	1.9726	.54536	3.0645	.50226	.43874	.46312	62.830	.67867	.66495	D029-16G
29	D029-16H	110.84	1.9546	.55296	2.2242	.50765	.44135	.46294	65.861	.68689	.67454	D029-16H
30	D029-26	49.765	.00854	.04635	.72059	.00411	.01152	.01819	13.020	.11170	.03006	D029-26
31	Blank	.02419	.00092	.00084	.00050	.00002	.00066	.00000	.07836	.00003	.00009	Blank
32	CCV2	105.23	1.4700	1.0431	1.9705	1.4764	2.4473	1.9070	73.822	2.3966	.96417	CCV2
33	CCB2	.00765	.00092	.00064	.00035	.00018	.00529	.00004	.06442	.00020	.00012	CCB2
34	D029-01W	61.186	.00817	.08829	1.2812	.00595	.02593	.02796	88.348	.16899	.07412	D029-01W
35	D029-02W	67.744	.00865	.07611	1.6679	.00631	.01987	.02497	79.118	.14900	.13270	D029-02W
36	D029-03W	44.957	.01245	.06338	.54311	.00422	.02602	.16027	442.41	.08745	.03530	D029-03W
37	D029-04W	54.713	.01732	.13504	.90399	.00743	.03195	.16622	418.39	.23086	.05388	D029-04W
38	D029-05W	54.789	.00833	.04998	.83988	.00581	.02015	.08486	106.02	.09608	.04310	D029-05W
39	D029-06W	53.663	.00870	.07324	1.0092	.00644	.01892	.08743	241.81	.13036	.09363	D029-06W
40	D029-07W	69.900	.00753	.07090	1.1486	.00703	.01915	.03298	38.343	.14056	.07551	D029-07W
41	D029-08W	69.399	.00767	.06503	1.1933	.00678	.01692	.03782	39.492	.12154	.05905	D029-08W
42	D029-09W	56.654	.00735	.06553	1.3762	.00680	.01158	.00542	16.976	.15216	.07676	D029-09W
43	Blank	.02781	.00042	.00130	.00070	-.00001	-.00034	-.00011	.00702	-.00002	-.00021	Blank
44	CCV3	104.36	1.4556	1.0330	1.9617	1.4746	2.4403	1.8887	73.632	2.3906	.96478	CCV3
45	CCB3	-.00345	.00054	-.00186	-.00005	.00004	.00451	-.00004	.05182	.00005	-.00009	CCB3
46	D029-10W	65.436	.01099	.08180	.76066	.00520	.02258	.05097	119.53	.23926	.04453	D029-10W
47	D029-11W	89.017	.01556	.15538	.93619	.00903	.04374	.03071	57.755	.59262	.09024	D029-11W
48	D029-12W	70.384	.00481	.05398	1.3299	.00663	.01583	.00913	23.908	.11661	.07005	D029-12W
49	D029-13W	94.203	.00574	.07712	1.5762	.00870	.01596	-.00041	25.410	.17141	.14188	D029-13W
50	D029-14W	69.238	.00581	.05125	.96100	.00678	.01577	.03601	29.831	.11215	.03852	D029-14W
51	D029-15W	118.73	.00788	.09334	1.4491	.00988	.02047	.01496	29.608	.19709	.06865	D029-15W
52	Blank	.04357	.00000	.00079	.00051	-.00006	-.00036	-.00010	-.00660	.00002	-.00001	Blank
53	CCV4	104.31	1.4439	1.0227	1.9599	1.4703	2.4280	1.8704	73.324	2.3642	.96860	CCV4
54	CCB4	.01037	.00116	.00102	.00019	.00015	.00490	.00012	.05878	.00035	-.00008	CCB4

55	IPD010SB	-.01032	.00017	.00101	-.00011	-.00002	.00139	-.00008	.04011	-.00006	-.00016	IPD010SB
56	IPD010SL	5.0021	2.2600	.48470	.48450	.49006	.44656	.46981	47.424	.47836	.48333	IPD010SL
57	IPD010SC	4.9122	2.2223	.47587	.47578	.48441	.44627	.45981	46.926	.47142	.47652	IPD010SC
58	MDLV-01	.04428	.02647	.00257	.00207	.00198	.01245	.00082	.06876	.00260	.00178	MDLV-01
59	MDLV-02	-.00772	.00947	-.00026	.00011	-.00004	.00327	-.00016	-.04481	.00057	-.00014	MDLV-02
60	MDLV-03	-.00801	.01882	.00008	-.00007	-.00002	.00286	-.00015	-.03190	.00058	-.00024	MDLV-03
61	LOD3050	.04720	.02664	.00238	.00284	.00102	.01113	.00164	.05327	.00351	.00176	LOD3050
62	LOQ3050	.18238	.08594	.00782	.00986	.00985	.08619	.00933	.94691	.01037	.00979	LOQ3050
63	Blank	-.01001	-.00059	-.00132	-.00014	-.00001	-.00012	-.00011	-.02333	.00005	-.00010	Blank
64	CCV5	103.97	1.4353	1.0199	1.9618	1.4665	2.4239	1.8582	72.628	2.3588	.96483	CCV5
65	CCB5	.00208	.00122	.00194	.00004	.00012	.00505	.00012	.05556	.00022	-.00003	CCB5
66	IPD013WB	-.00771	.00020	.00044	-.00016	.00002	.00169	-.00004	-.04602	-.00006	-.00014	IPD013WB
67	IPD013WL	5.2145	2.2725	.49718	.49328	.51198	.45852	.48021	46.405	.48218	.48764	IPD013WL
68	IPD013WC	5.2558	2.2630	.49966	.49545	.52077	.46107	.48762	47.638	.49379	.49201	IPD013WC
69	MDLV-01	.05367	.03051	.00430	.00219	.00085	.01176	.00070	.07910	.00219	.00247	MDLV-01
70	MDLV-02	-.00686	.02897	.00314	-.00018	-.00005	.00128	-.00014	.00058	.00025	-.00016	MDLV-02
71	LOD3010	.02490	.02831	.00396	.00190	.00100	.00940	.00175	.05979	.00287	.00178	LOD3010
72	LOQ3010	.20171	.09298	.00880	.01033	.01021	.09188	.00959	.97875	.01008	.00956	LOQ3010
73	LOQ3050W	.18054	.08624	.00705	.00984	.00988	.08640	.00948	.97044	.01047	.00995	LOQ3050W
74	Blank	-.01184	-.00025	.00033	-.00002	-.00001	-.00001	-.00009	-.02037	-.00007	-.00010	Blank
75	CCV6	104.02	1.4417	1.0337	1.9552	1.4707	2.4068	1.8806	72.835	2.3690	.96400	CCV6
76	CCB6	.01407	.00150	.00037	.00050	.00033*	.00522	.00015	.06654	.00052	.00005	CCB6
77	IPD014WB	-.00794	.00006	.00005	-.00002	-.00004	.00162	-.00004	-.00555	-.00007	-.00006	IPD014WB
78	IPD014WL	5.2280	2.2600	.50113	.49040	.51146	.45787	.48388	46.103	.48214	.48357	IPD014WL
79	IPD014WC	5.3001	2.2906	.50599	.49560	.51995	.46779	.48959	47.826	.49110	.49090	IPD014WC
80	MDLV-01	.05782	.03225	.00462	.00227	.00087	.01191	.00080	.11458	.00224	.00261	MDLV-01
81	MDLV-02	-.00140	.02801	.00379	.00073	-.00005	.00142	-.00016	-.01549	.00003	-.00015	MDLV-02
82	LOD3005	.02505	.02756	.00389	.00183	.00099	.00932	.00170	.06600	.00286	.00175	LOD3005
83	LOQ3005	.19771	.08966	.00877	.01039	.00990	.08971	.00940	.95138	.00960	.00920	LOQ3005
84	Blank	-.01127	-.00038	-.00009	-.00009	.00002	.00028	-.00007	-.02170	-.00007	-.00010	Blank
85	MRLD0805	.18928	.09218	.00976	.00974	.00970	.01063	.00948	.90954	.00968	.00889	MRLD0805
86	MRLD0806	.20605	.04873	.00987	.00548	.00414	.09385	.00493	.49375	.00993	.00896	MRLD0806
87	CCV7	103.69	1.4495	1.0374	1.9499	1.4635	2.4131	1.8848	72.722	2.3646	.96494	CCV7
88	CCB7	-.00481	.00134	-.00091	.00006	.00007	.00433	-.00002	.05443	.00011	-.00013	CCB7
89	IPD019SB	-.00027	.00009	-.00043	.00003	.00005	.00429	-.00008	-.02953	.00078	-.00004	IPD019SB
90	IPD019SL	5.0490	2.2676	.49205	.48940	.50188	.45514	.47671	48.138	.48774	.49177	IPD019SL
91	IPD019SC	5.1947	2.3177	.50460	.50532	.51708	.46702	.48733	49.573	.50054	.50670	IPD019SC
92	C581-10A	33.140	2.4258	.54174	.90764	.48901	.62812	.44654	1243.0*	.49689	.49340	C581-10A
93	C581-10	27.943	.00473	.00503	.41907	.00039	.14426	.00109	1242.4*	.02699	.00055	C581 10
94	C581-10J	5.3030	.00129	.00025	.08148	.00015	.02876	.00012	280.14	.00571	.00003	C581-10J
95	C581 10A	10.996	2.3069	.51750	.57772	.50292	.51916	.46169	311.06	.47749	.48536	C581-10A
96	C581-10T	5.3801	.00144	.00058	.08206	.00010	.02870	.00019	275.23	.00578	-.00007	C581-10T
97	C581-10J	1.0187	.00046	-.00003	.01606	.00005	.00540	.00001	56.642	.00142	-.00012	C581-10J
98	Blank	-.01153	.00027	.00028	-.00013	-.00002	-.00029	-.00007	-.00105	-.00009	-.00006	Blank
99	CCV8	103.45	1.4413	1.0304	1.9606	1.4724	2.4111	1.8671	72.406	2.3588	.97205	CCV8
100	CCB8	-.00332	.00141	.00049	.00044	.00011	.00444	-.00001	.19196	.00006	-.00012	CCB8
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00138	.00002	.00006	-.00002	.00000	.00002	.00002	-.00060	-.00050	.00000	Blank
2	S20			.19590			.11932					S20
3	S21			1.9449			1.1884					S21
4	S22	.36699	.05732									S22
5	S23	3.5446	2.2060									S23
6	S24							.72920				S24
7	S25							7.2589				S25
8	S26								.77894	.34276		S26
9	S27								7.4662	3.3745		S27
10	S28					.10843						S28
11	S29					.44869						S29
12	S30				.02863						.00157	S30
13	S31				.14133						.00611	S31
14	ICV	2.4809	24.613	2.4025	.51626	56.832	2.3415	2.4860	2.4636	59.215	1.0243	ICV
15	ICB	.00006	-.00250	.00039	.00071	.00905	.00004	.00045	-.00007	.07127	.00005	ICB
16	MRLD0803	.01007	.21075	.01035	.01066	.94818	.00979	.01009	.01007	.99017	.01018	MRLD0803
17	MRLD0804	.01063	.10410	.00318	.10005	.20040	.00520	.01005	.01036	.99085	.01044	MRLD0804
18	ICSA1	.00096	186.12	-.00060	.00604	188.44	.00174	-.00111	.00036	-.04846	.00108	ICSA1
19	ICSAB1	.52062	185.89	.93721	1.0789	187.08	.44857	1.0285	.98487	77.479	1.0377	ICSAB1
20	CCV1	2.4380	24.394	2.4077	.50953	56.245	2.3569	2.5342	2.4662	59.008	1.0351	CCV1
21	CCB1	.00030	.00763	.00025	.00038	.01188	.00024	.00063	.00009	.09764	.00118	CCB1
22	IPD009SQ	.00000	-.00262	.00013	.00070	.00231	-.00017	.00015	-.00013	.04864	.00097	IPD009SQ
23	IPD009SX	.49816	5.0004	.50101	.00108*	47.344	.47786	.54083	.46403	49.078	.48855	IPD009SX
24	IPD009SY	.49345	4.9578	.49672	.00114*	47.357	.47682	.53396	.45897	48.820	48638	IPD009SY
25	D029-16A	.57159	163.91	.80467	.03463	52.761	12.266	.54607	.54769	54.743	.49888	D029-16A
26	D029-16W	.05634	165.55	.31738	.03407	5.5075	12.294	.00737	.07217	5.2297	.00503	D029-16W
27	D029-16J	.01140	34.813	.06457	.00776	1.1556	2.5579	.00138	.01393	1.0907	.00109	D029-16J
28	D029-16G	.54954	146.60	.78012	.04262	51.722	19.746	.52395	.52938	53.457	.47819	D029-16G
29	D029-16H	.56009	162.17	.81932	.04848	52.892	12.725	.52994	.53274	54.432	.48141	D029-16H
30	D029-26	.03509	102.19	.32538	.02166	3.7689	1.8513	.00571	.03563	2.8538	.00435	D029-26
31	Blank	.00007	.05233	.00023	-.00012	.00249	.00171	.00006	.00008	.04033	.00035	Blank
32	CCV2	2.4407	24.690	2.4275	.51133	56.634	2.3655	2.5608	2.4832	59.621	1.0357	CCV2
33	CCB2	.00032	.00199	.00051	.00033	.00883	.00040	.00048	.00015	.07090	.00139	CCB2
34	D029-01W	.18945	163.62	.26652	.03062	15.981	5.9807	.00615	.07070	3.6071	.00569	D029-01W
35	D029-02W	.17159	161.33	.24965	.03328	16.022	8.0718	.00809	.06735	3.6836	.00475	D029-02W
36	D029-03W	.74084	87.327	.23420	.02764	89.781	3.1612	.00310	.10745	4.5213	.00563	D029-03W
37	D029-04W	.97310	248.77	.31694	.03009	95.565	3.6409	.00999	.11930	5.3889	.00838	D029-04W
38	D029-05W	.17614	91.438	.35278	.02688	20.614	2.3915	.00281	.06867	3.3099	.00556	D029-05W
39	D029-06W	.57180	128.10	.22395	.02893	40.352	4.3019	.00551	.08967	4.9047	.00697	D029-06W
40	D029-07W	.09481	164.22	.24765	.03213	7.4354	3.5683	.00597	.07251	3.5008	.00382	D029-07W
41	D029-08W	.09350	145.88	.22547	.03155	8.2826	3.2414	.00439	.06995	3.3292	.00443	D029-08W
42	D029-09W	.04495	137.94	.15979	.02352	4.3915	2.9850	.00609	.04692	2.6171	.00545	D029-09W
43	Blank	-.00007	.08469	.00027	-.00020	.00741	.00175	-.00003	-.00010	.01097	.00007	Blank
44	CCV3	2.4247	24.532	2.4314	.50728	56.700	2.3617	2.5585	2.4832	59.114	1.0262	CCV3
45	CCB3	.00009	.00097	.00045	.00031	.00651	.00018	.00034	.00001	.05735	.00158	CCB3
46	D029-10W	.19062	166.38	.23277	.02897	22.863	3.0504	.00781	.06054	3.5141	.00365	D029-10W
47	D029-11W	.13537	366.99	.24057	.03133	13.393	4.9649	.01566	.12995	3.5861	.00541	D029-11W
48	D029-12W	.06230	119.54	.20305	.03014	5.6887	6.0109	.00376	.07091	4.4797	.00421	D029-12W
49	D029-13W	.06411	167.93	.19800	.03659	6.4636	7.1899	.00560	.09521	4.9909	.00553	D029-13W
50	D029-14W	.08603	109.16	.25552	.02835	6.2726	2.5255	.00312	.06882	4.4874	.00603	D029-14W
51	D029-15W	.10161	195.36	.26397	.04685	8.4188	4.0463	.00580	.10631	6.3021	.00691	D029-15W
52	Blank	-.00003	.08870	.00002	.00027	.00207	.00158	-.00008	-.00014	.01290	.00097	Blank
53	CCV4	2.4202	24.388	2.4429	.50518	56.426	2.3546	2.5694	2.4933	59.126	1.0222	CCV4
54	CCB4	.00041	.00601	.00066	.00041	.01284	.00028	.00062	.00018	.06228	.00107	CCB4

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
55	IPD010SB	-.00009	-.00426	.00014	.00013	-.00404	-.00005	.00000	-.00009	.03877	.00081	IPD010SB
56	IPD010SL	.48241	4.8985	.49175	.49497	46.029	.46056	.52766	.45354	47.683	.47940	IPD010SL
57	IPD010SC	.47341	4.8070	.48521	.49014	45.527	.45466	.52001	.44612	47.050	.46776	IPD010SC
58	MDLV-01	.00299	.03287	.00210	.00969	.10580	.00121	.00524	.00221	.23884	.00489	MDLV-01
59	MDLV-02	-.00024	.00226	.00019	-.00036	.00001	-.00012	.00011	.00000	.06365	.00122	MDLV-02
60	MDLV-03	-.00016	.01164	-.00020	.00021	-.00923	.00017	.00013	.00015	.29769	.00100	MDLV-03
61	LOD3050	.00281	.03302	.00264	.00549	.09557	.00302	.00332	.00326	.15031	.00525	LOD3050
62	LOQ3050	.00962	.20175	.01008	.02016	.94625	.00969	.05355	.01053	.98837	.01004	LOQ3050
63	Blank	-.00004	-.00341	.00014	.00019	.00476	-.00020	-.00006	.00002	.01029	.00078	Blank
64	CCV5	2.4091	24.449	2.4313	.50550	56.106	2.3420	2.5649	2.4854	59.264	1.0124	CCV5
65	CCB5	.00018	-.00098	.00013	.00018	.00171	.00006	.00047	.00017	.04968	.00140	CCB5
66	IPD013WB	-.00002	-.00055	.00009	.00010	-.00711	-.00004	.00008	-.00010	.03437	.00053	IPD013WB
67	IPD013WL	.49941	4.9546	.50339	.49885	44.980	.46789	.52368	.46735	46.552	.49467	IPD013WL
68	IPD013WC	.49947	5.0870	.50836	.49441	46.255	.48059	.52366	.47198	46.645	.50174	IPD013WC
69	MDLV-01	.00237	.04812	.00399	.09861	.10380	.00329	.00567	.00259	.16669	.00574	MDLV-01
70	MDLV-02	.00028	.00441	.00322	.09781	-.00468	.00012	.00006	-.00015	.97937	.00139	MDLV-02
71	LOD3010	.00293	.04423	.00298	.04980	.09648	.00297	.00324	.00298	.11806	.00572	LOD3010
72	LOQ3010	.01056	.21433	.00996	.95888	.93349	.00973	.01096	.01019	.95860	.01089	LOQ3010
73	LOQ3050W	.00948	.20204	.00986	.01955	.98147	.00979	.05360	.01053	.99779	.01042	LOQ3050W
74	Blank	-.00015	-.00382	-.00016	.00036	-.00500	-.00007	.00004	-.00006	.01229	.00080	Blank
75	CCV6	2.3942	24.745	2.4307	.49722	56.655	2.3509	2.5700	2.4853	58.596	1.0329	CCV6
76	CCB6	.00049	.00055	.00033	.00039	.01962	.00050	.00062	.00023	.06386	.00110	CCB6
77	IPD014WB	-.00002	-.00196	-.00016	.00035	.00078	-.00004	.00008	.00007	.04471	.00001	IPD014WB
78	IPD014WL	.49399	4.9810	.50183	.48456	44.952	.46723	.51406	.46370	45.995	.50476	IPD014WL
79	IPD014WC	.49863	5.0905	.51030	.49610	46.365	.47664	.52541	.47118	47.234	.50785	IPD014WC
80	MDLV-01	.00261	.05127	.00385	.10039	.11692	.00337	.00604	.00293	.15524	.00623	MDLV-01
81	MDLV-02	.00034	.00806	.00308	.09851	.00405	.00022	.00008	.00010	.97117	.00105	MDLV-02
82	LOD3005	.00291	.04993	.00316	.04874	.08705	.00285	.00310	.00274	.10590	.00666	LOD3005
83	LOQ3005	.01034	.20652	.01018	.92854	.91597	.00968	.01062	.01042	.91808	.01026	LOQ3005
84	Blank	-.00013	-.00164	-.00045	.00028	-.00251	.00002	-.00008	-.00006	.01234	.00166	Blank
85	MRLD0805	.00940	.20419	.00963	.01017	.92703	.00928	.01002	.00982	.92957	.01071	MRLD0805
86	MRLD0806	.01036	.10206	.00311	.09522	.19349	.00497	.00996	.01026	.95381	.01054	MRLD0806
87	CCV7	2.3998	24.586	2.4358	.49539	56.256	2.3431	2.5702	2.4839	58.551	1.0363	CCV7
88	CCB7	.00016	-.00113	-.00028	.00016	.00278	.00000	.00037	-.00005	.04184	.00116	CCB7
89	IPD019SB	.00007	.00555	-.00003	.00000	.01215	.00019	.00036	.00016	.06790	.00134	IPD019SB
90	IPD019SL	.48770	5.0052	.50193	.00084*	46.912	.46978	.53911	.46271	48.006	.49036	IPD019SL
91	IPD019SC	.50086	5.1442	.51723	.00094*	48.398	.48377	.55777	.47643	49.580	.50181	IPD019SC
92	C581-10A	.57810	11.446	.53942	.03423	63.036	.87631	.55433	.48260	56.979	.54523	C581-10A
93	C581-10	.03694	6.9835	.04587	.03532	18.339	.43613	.00073	.01563	3.8621	.00256	C581-10
94	C581-10J	.00724	1.4304	.00976	.00618	3.7753	.08936	.00004	.00275	.75218	.00106	C581-10J
95	C581-10A	.51443	6.3204	.51157	.00708	49.109	.54886	.52671	.46736	50.388	.51301	C581-10A
96	C581-10T	.00743	1.4413	.00961	.00603	3.7593	.08956	.00017	.00286	.76617	-.00056	C581-10T
97	C581-10J	.00140	.28688	.00217	.00126	.77375	.01796	.00004	.00047	.18757	.00070	C581-10J
98	Blank	-.00010	-.00239	.00001	.00049	-.00307	-.00002	-.00002	-.00013	.05196	.00004	Blank
99	CCV8	2.4006	24.657	2.4521	.49776	56.340	2.3472	2.5945	2.5074	58.675	1.0287	CCV8
100	CCB8	.00034	.00049	-.00053	.00017	-.00184	.00025	.00039	.00018	.07567	-.00038	CCB8

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00048	-.00009	-.00002	.00008	.00001	-.00024	.00210	Blank
2	S20									S20
3	S21									S21
4	S22							.16028		S22
5	S23							1.6142		S23
6	S24		1.1002							S24
7	S25		6.4036							S25
8	S26									S26
9	S27									S27
10	S28				.00663					S28
11	S29				.06405					S29
12	S30	.04738		.14428		.02332	.01619		.59046	S30
13	S31	.23068		.70483		.11204	.08051		5.7206	S31
14	ICV	.50494	62.193	.48990	2.3010	.48921	.49537	1.4433	2.6283	ICV
15	ICB	.00009	.02615	.00009	.00028	.00043	.00019	.00008	-.00191	ICB
16	MRLD0803	.01013	1.0361	.01017	.01098	.00002	.00961	.00984	.01852	MRLD0803
17	MRLD0804	.01018	.52133	.01046	.01108	.00999	.01070	.01011	.01121	MRLD0804
18	ICSA1	.00026	.11191	.00159	.00193	.00246	.00257	-.00066	-.00016	ICSA1
19	ICSAB1	1.0810	80.261	.48705	.82875	.99158	.97257	.47296	1.0521	ICSAB1
20	CCV1	.49914	61.501	.48606	2.3042	.50601	.49268	1.4130	2.6239	CCV1
21	CCB1	.00003	.03727	.00002	.00047	.00009	.00055	.00027	-.00197	CCB1
22	IPD009SQ	.00004	.01352	-.00002	.00023	.00021	.00025	.00002	-.00100	IPD009SQ
23	IPD009SX	.48352	51.272	.47369	.46144	.54538	.50860	.49365	.55435	IPD009SX
24	IPD009SY	.47905	50.895	.46899	.45817	.53814	.50377	.48942	.55168	IPD009SY
25	D029-16A	.48036	51.947	.54359	.44738	.54754	1.7522	.81627	1.5377	D029-16A
26	D029-16W	-.00058	.24401	.06736	.00008	.04803	1.2876	.33485	1.0057	D029-16W
27	D029-16J	-.00004	.06095	.01374	.00007	.00964	.26211	.06810	.19346	D029-16J
28	D029-16G	.48204	50.788	.52875	.43092	.53425	1.6793	.78595	1.4501	D029-16G
29	D029-16H	.48475	50.883	.54324	.43030	.54134	1.9082	.82081	1.5586	D029-16H
30	D029-26	-.00026	.46868	.05048	.00057	.04586	.76219	.21781	3.2586	D029-26
31	Blank	-.00003	.01332	.00005	.00040	.00025	.00086	.00017	.00297	Blank
32	CCV2	.50115	61.933	.48844	2.3135	.51513	.49532	1.4172	2.6540	CCV2
33	CCB2	.00004	.03238	.00013	.00051	.00019	.00001	.00003	.00204	CCB2
34	D029-01W	-.00054	.49376	.09982	-.00038	.04744	.85924	.27854	6.8002	D029-01W
35	D029-02W	-.00058	.53827	.10949	-.00055	.04784	.86121	.30833	5.7702	D029-02W
36	D029-03W	-.00030	.59257	.24114	-.00082	.04670	.46340	.13404	36.292*	D029-03W
37	D029-04W	-.00023	.64671	.24365	.00176	.04898	.61357	.35959	34.321	D029-04W
38	D029-05W	-.00064	.47127	.10330	-.00135	.04586	.52695	.20392	18.146	D029-05W
39	D029-06W	-.00043	.53654	.16634	.00044	.04743	.52332	.30419	17.835	D029-06W
40	D029-07W	-.00050	.84812	.09678	.00048	.04758	.56105	.31312	6.6818	D029-07W
41	D029-08W	-.00050	.79346	.11103	.00035	.04739	.48572	.27794	12.069	D029-08W
42	D029-09W	-.00046	1.0581	.09156	.00027	.04547	.63466	.37777	6.0099	D029-09W
43	Blank	-.00016	-.00097	.00003	-.00042	.00003	.00031	.00010	.00061	Blank
44	CCV3	.49883	61.535	.48616	2.2924	.51521	.49483	1.4107	2.6553	CCV3
45	CCB3	-.00006	.01855	.00006	.00037	.00004	-.00033	.00007	.00189	CCB3
46	D029-10W	-.00011	.45430	.10119	.00057	.04809	.85939	.30065	12.462	D029-10W
47	D029-11W	.00004	.45631	.08083	.00402	.05027	1.0956	.58888	9.2131	D029-11W
48	D029-12W	-.00056	.23399	.07758	-.00096	.04756	.88240	.23521	2.2869	D029-12W
49	D029-13W	-.00059	.30996	.10141	.00048	.04697	1.1242	.32946	.47101	D029-13W
50	D029-14W	-.00042	.24475	.07788	-.00022	.04603	.65319	.23424	7.3906	D029-14W
51	D029-15W	-.00054	.35610	.11755	.00073	.04939	.85984	.38296	3.6854	D029-15W
52	Blank	-.00004	-.00077	.00006	.00039	.00045	.00044	.00016	.00036	Blank
53	CCV4	.49685	61.382	.48613	2.2697	.51738	.49384	1.3975	2.6616	CCV4
54	CCB4	.00003	.02084	.00008	.00086	.00006	.00003	.00027	.00186	CCB4

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
55	IPD010SB	-.00010	-.00090	.00002	.00054	-.00010	-.00035	.00003	-.00074	IPD010SB
56	IPD010SL	.47053	49.701	.45642	.45094	.53741	.49228	.47426	.54067	IPD010SL
57	IPD010SC	.46516	49.002	.45150	.44110	.53148	.48715	.46589	.53167	IPD010SC
58	MDLV-01	.00201	.16684	.00197	.00401	.05262	.00992	.00470	.00545	MDLV-01
59	MDLV-02	-.00023	.04689	.00001	-.00079	.04241	-.00017	-.00001	.00150	MDLV-02
60	MDLV-03	-.00015	.04183	.00007	-.00086	.04163	.00014	.00003	.00047	MDLV-03
61	LOD3050	.00257	.14126	.00109	.00443	.14670	.00478	.00157	.01003	LOD3050
62	LOQ3050	.00887	1.0542	.00991	.00841	.29849	.09912	.00976	.02104	LOQ3050
63	Blank	-.00007	-.00005	-.00002	.00039	.00030	-.00009	.00007	-.00123	Blank
64	CCV5	.49497	61.513	.48595	2.2593	.51683	.49287	1.3910	2.6520	CCV5
65	CCB5	.00002	.01987	.00004	.00060	.00001	.00018	.00015	.00169	CCB5
66	IPD013WB	.00002	.00739	.00005	.00019	.00040	.00037	.00001	-.00181	IPD013WB
67	IPD013WL	.46057	48.998	.45909	.46355	.49619	.49186	.47685	.55607	IPD013WL
68	IPD013WC	.46388	48.782	.45740	.46530	.49809	.49575	.48510	.56613	IPD013WC
69	MDLV-01	.00328	.13307	.00104	.00478	.00587	.00525	.00441	.00759	MDLV-01
70	MDLV-02	-.00016	.29807	-.00001	-.00078	.00034	.00002	.00007	.00186	MDLV-02
71	LOD3010	.00260	.11377	.00107	.00450	.00589	.00485	.00187	.00955	LOD3010
72	LOQ3010	.00936	1.0249	.01016	.00955	.98841	.98585	.00967	.02277	LOQ3010
73	LOQ3050W	.00891	1.0532	.00990	.00885	.30063	.10023	.00987	.02125	LOQ3050W
74	Blank	-.00002	.00119	.00004	.00007	.00079	-.00038	.00003	-.00125	Blank
75	CCV6	.49075	60.734	.48154	2.2759	.51966	.49543	1.3923	2.6739	CCV6
76	CCB6	.00009	.03181	.00019	.00063	.00012	-.00001	.00031	.00173	CCB6
77	IPD014WB	-.00004	.00466	-.00002	.00043	.00009	.00015	-.00004	-.00049	IPD014WB
78	IPD014WL	.45889	48.255	.45188	.46571	.49178	.48776	.47521	.55582	IPD014WL
79	IPD014WC	.46545	49.516	.46164	.47170	.50350	.49778	.48168	.56524	IPD014WC
80	MDLV-01	.00356	.14282	.00106	.00468	.00570	.00511	.00450	.00887	MDLV-01
81	MDLV-02	-.00015	.28044	-.00002	-.00090	.00078	.00032	.00004	.00521	MDLV-02
82	LOD3005	.00273	.11266	.00107	.00452	.00599	.00485	.00189	.00976	LOD3005
83	LOQ3005	.00906	.99078	.00992	.00872	.96245	.94992	.00936	.02290	LOQ3005
84	Blank	-.00008	-.00068	.00008	-.00013	.00008	.00046	.00009	-.00135	Blank
85	MRLD0805	.00944	.98436	.00968	.01065	-.00031	.00980	.00936	.01890	MRLD0805
86	MRLD0806	.00976	.50236	.01014	.01036	.01004	.00991	.00978	.01206*	MRLD0806
87	CCV7	.49274	60.686	.48234	2.2879	.52150	.49270	1.3911	2.6686	CCV7
88	CCB7	-.00003	.02088	.00006	.00029	.00007	.00010	-.00004	.00164	CCB7
89	IPD019SB	-.00007	.05042	.00003	-.00067	.04605	-.00011	.00010	.00084	IPD019SB
90	IPD019SL	.47730	50.064	.46087	.45578	.55520	.50185	.48111	.56181	IPD019SL
91	IPD019SC	.48786	51.610	.47513	.46716	.57574	.51702	.49329	.57602	IPD019SC
92	C581-10A	.52857	66.344	.89266	.40624	.59975	2.0254	.50182	1.2623	C581-10A
93	C581-10	-.00058	12.301	.43454	-.00337	.09495	1.5785	.02367	.78223	C581-10
94	C581-10J	-.00015	2.3361	.08491	.00026	.01907	.31438	.00466	.14047	C581-10J
95	C581-10A	.48387	53.704	.54525	.44392	.52493	.81064	.47687	.68303	C581-10A
96	C581-10T	-.00022	2.3537	.08609	-.00030	.01895	.31746	.00469	.13935	C581-10T
97	C581-10J	-.00009	.46108	.01695	.00019	.00380	.06327	.00096	.02451	C581-10J
98	Blank	-.00001	.00665	.00002	.00041	.00001	-.00043	.00009	-.00108	Blank
99	CCV8	.49160	60.892	.48344	2.2676	.52399	.49643	1.3877	2.6796	CCV8
100	CCB8	.00008	.02972	.00014	.00034	.00054	.00006	.00009	.00655	CCB8

ID8D010 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IP00095
Matrix: Soil
Digestor ID: C

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90/91 °C		90/91 °C

Standards	ID	Amount Added (ml)
LCS-1	~~SM1A-0~~ HF 4/2/13 SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-300	10
HNO3(1:1)	SM5B-02-150	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 11124 1146

Prepared By: HF
Standard Added By: HF Witnessed By: TH
Extract Rcvd By: TH Checked By: TH

FileID: IPD009S

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPD009S01	IPD009SB	1	g	4/6/11 14:24	100	1	100	1	
11IPD009S02	IPD009SL	1	g	4/6/11 14:24	100	1	100	1	
11IPD009S03	IPD009SC	1	g	4/6/11 14:24	100	1	100	1	
11IPD009S04	D029-01	1.11	g	4/6/11 14:31	100	1	100	0.901	
11IPD009S05	D029-02	1.21	g	4/6/11 14:33	100	1	100	0.826	
11IPD009S06	D029-03	1.06	g	4/6/11 14:34	100	1	100	0.943	
11IPD009S07	D029-04	1.29	g	4/6/11 14:35	100	1	100	0.775	
11IPD009S08	D029-05	1.21	g	4/6/11 14:36	100	1	100	0.826	✓
11IPD009S09	D029-06	1.27	g	4/6/11 14:40	100	1	100	0.787	✓
11IPD009S10	D029-07	1.25	g	4/6/11 14:43	100	1	100	0.8	
11IPD009S11	D029-08	1.16	g	4/6/11 14:44	100	1	100	0.862	
11IPD009S12	D029-09	1.24	g	4/6/11 14:45	100	1	100	0.806	
11IPD009S13	D029-10	1.09	g	4/6/11 14:47	100	1	100	0.917	✓
11IPD009S14	D029-11	1.16	g	4/6/11 14:49	100	1	100	0.862	✓
11IPD009S15	D029-12	1	g	4/6/11 14:50	100	1	100	1	
11IPD009S16	D029-13	1.17	g	4/6/11 14:51	100	1	100	0.855	
11IPD009S17	D029-14	1.09	g	4/6/11 14:52	100	1	100	0.917	✓
11IPD009S18	D029-15	1.31	g	4/6/11 14:55	100	1	100	0.763	
11IPD009S19	D029-16	1.33	g	4/6/11 14:56	100	1	100	0.752	
11IPD009S20	D029-16M	1.13	g	4/6/11 14:56	100	1	100	0.885	
11IPD009S21	D029-16S	1.33	g	4/6/11 14:57	100	1	100	0.752	

HF 4/6/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/6/11 16:10 Prepared By: HF

☑ Digestion Ended @ 4/6/11 16:10 Checked By: TH

Comments: Date 4/6/11

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EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 53848038

Book #: EIP-099
Batch: IPD011S
Matrix: Soil
Digestor ID: C

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	91 °C		94 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-300	10
HNO3(1:1)	SM5B-02-150	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 11124146

Prepared By: HF
Standard Added By: HF Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPD011S01	IPD011SB	1	g	4/7/11 10:55	100	1	100	1	
11IPD011S02	IPD011SL	1	g	4/7/11 10:55	100	1	100	1	
11IPD011S03	IPD011SC	1	g	4/7/11 10:55	100	1	100	1	
11IPD011S04	D032-01	1.2	g	4/7/11 10:56	100	1	100	0.833	
11IPD011S05	D032-02	1.14	g	4/7/11 10:57	100	1	100	0.877	
11IPD011S06	D032-02M	1.18	g	4/7/11 10:57	100	1	100	0.847	
11IPD011S07	D032-02S	1.26	g	4/7/11 10:58	100	1	100	0.794	
11IPD011S08	D029-17	1.22	g	4/7/11 11:15	100	1	100	0.82	✓
11IPD011S09	D029-18	1.21	g	4/7/11 11:16	100	1	100	0.826	✓
11IPD011S10	D029-19	1.14	g	4/7/11 11:17	100	1	100	0.877	✓
11IPD011S11	D029-20	1.17	g	4/7/11 11:19	100	1	100	0.855	✓
11IPD011S12	D029-21	1.16	g	4/7/11 11:20	100	1	100	0.862	✓
11IPD011S13	D029-22	1.31	g	4/7/11 11:21	100	1	100	0.763	✓
11IPD011S14	D029-23	1.22	g	4/7/11 11:22	100	1	100	0.82	✓
11IPD011S15	D029-24	1.13	g	4/7/11 11:24	100	1	100	0.885	✓
11IPD011S16	D029-25	1.03	g	4/7/11 11:25	100	1	100	0.971	✓
11IPD011S17	D029-26	1.18	g	4/7/11 11:26	100	1	100	0.847	✓

HF 4/7/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/7/11 15:19 Prepared By: HF

☑ Digestion Ended @ 4/7/11 17:19 Checked By: TA

Comments: Date 4/7/11

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D029

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of six (6) soil samples were received on 04/06/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary forms for details.

Lab Control Sample
Two (2) sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries for IPD017SL/C were all within QC limits.
Percent recoveries for IPD020SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Samples were oven-dried and passed through sieve # 60 prior to sample preparation.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D029
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD017SB	1	NA	04/11/1113:29	04/08/1115:00	ID8D012023	ID8D012021	IPD017S	Method Blank
LCS1S	IPD017SL	1	NA	04/11/1113:32	04/08/1115:00	ID8D012024	ID8D012021	IPD017S	Lab Control Sample (LCS)
LCD1S	IPD017SC	1	NA	04/11/1113:34	04/08/1115:00	ID8D012025	ID8D012021	IPD017S	LCS Duplicate
CB155-10-01AS	D029-05A	0.980	NA	04/11/1113:37	04/08/1115:00	ID8D012026	ID8D012021	IPD017S	Analytical Spike Sample
CB155-10-01	D029-05	0.980	NA	04/11/1113:40	04/08/1115:00	ID8D012027	ID8D012021	IPD017S	Field Sample
CB155-10-01DL	D029-05J	4.90	NA	04/11/1113:42	04/08/1115:00	ID8D012028	ID8D012021	IPD017S	Diluted Sample
CB155-10-02	D029-06	0.926	NA	04/11/1113:45	04/08/1115:00	ID8D012029	ID8D012021	IPD017S	Field Sample
CB155-12-01	D029-10	0.826	NA	04/11/1113:48	04/08/1115:00	ID8D012030	ID8D012021	IPD017S	Field Sample
CB231-16-01	D029-14	0.943	NA	04/11/1113:51	04/08/1115:00	ID8D012031	ID8D012021	IPD017S	Field Sample
CP091-18-01	D029-18	0.962	NA	04/11/1114:10	04/08/1115:00	ID8D012038	ID8D012033	IPD017S	Field Sample
MBLK2S	IPD020SB	1	NA	04/11/1114:02	04/08/1116:20	ID8D012035	ID8D012033	IPD020S	Method Blank
LCS2S	IPD020SL	1	NA	04/11/1114:05	04/08/1116:20	ID8D012036	ID8D012033	IPD020S	Lab Control Sample (LCS)
LCD2S	IPD020SC	1	NA	04/11/1114:08	04/08/1116:20	ID8D012037	ID8D012033	IPD020S	LCS Duplicate
CB147-09-01AS	D029-24A	0.725	NA	04/11/1114:13	04/08/1116:20	ID8D012039	ID8D012033	IPD020S	Analytical Spike Sample
CB147-09-01	D029-24R	0.725	NA	04/11/1114:16	04/08/1116:20	ID8D012040	ID8D012033	IPD020S	Field Sample
CB147-09-01DL	D029-24J	3.62	NA	04/11/1114:18	04/08/1116:20	ID8D012041	ID8D012033	IPD020S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 14:10
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 15:00
Sample ID:	CB155-10-01	Date Analyzed:	04/11/11 13:40
Lab Samp ID:	D029-05	Dilution Factor:	0.980
Lab File ID:	ID8D012027	Matrix :	SOIL
Ext Btch ID:	IPD017S	% Moisture :	NA
Calib. Ref.:	ID8D012021	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	37.1	0.980	0.294

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 14:15
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 15:00
Sample ID:	CB155-10-02	Date Analyzed:	04/11/11 13:45
Lab Samp ID:	D029-06	Dilution Factor:	0.926
Lab File ID:	ID8D012029	Matrix :	SOIL
Ext Btch ID:	IPD017S	% Moisture :	NA
Calib. Ref.:	ID8D012021	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	21.7	0.926	0.278

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/02/11 15:25
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 15:00
Sample ID:	CB155-12-01	Date Analyzed:	04/11/11 13:48
Lab Samp ID:	D029-10	Dilution Factor:	0.826
Lab File ID:	ID8D012030	Matrix :	SOIL
Ext Btch ID:	IPD017S	% Moisture :	NA
Calib. Ref.:	ID8D012021	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	26.9	0.826	0.248

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/03/11 10:00
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 15:00
Sample ID:	CB231-16-01	Date Analyzed:	04/11/11 13:51
Lab Samp ID:	D029-14	Dilution Factor:	0.943
Lab File ID:	ID8D012031	Matrix :	SOIL
Ext Btch ID:	IPD017S	% Moisture :	NA
Calib. Ref.:	ID8D012021	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	33.6	0.943	0.283

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 15:50
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 15:00
Sample ID:	CP091-18-01	Date Analyzed:	04/11/11 14:10
Lab Samp ID:	D029-18	Dilution Factor:	0.962
Lab File ID:	ID8D012038	Matrix :	SOIL
Ext Btch ID:	IPD017S	% Moisture :	NA
Calib. Ref.:	ID8D012033	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	25.8	0.962	0.289

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/04/11 11:35
Project	: TAR CREEK OU4	Date Received:	04/06/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 16:20
Sample ID:	CB147-09-01	Date Analyzed:	04/11/11 14:16
Lab Samp ID:	D029-24R	Dilution Factor:	0.725
Lab File ID:	ID8D012040	Matrix :	SOIL
Ext Btch ID:	IPD020S	% Moisture :	NA
Calib. Ref.:	ID8D012033	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	46.8	0.725	0.218

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/08/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 15:00
Sample ID:	MBLK1S	Date Analyzed:	04/11/11 13:29
Lab Samp ID:	IPD017SB	Dilution Factor:	1
Lab File ID:	ID8D012023	Matrix :	SOIL
Ext Btch ID:	IPD017S	% Moisture :	NA
Calib. Ref.:	ID8D012021	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPD017SB	IPD017SL	IPD017SC		
LAB FILE ID:	ID8D012023	ID8D012024	ID8D012025		
DATIME EXTRCTD:	04/08/1115:00	04/08/1115:00	04/08/1115:00	DATE COLLECTED:	NA
DATIME ANALYZD:	04/11/1113:29	04/11/1113:32	04/11/1113:34	DATE RECEIVED:	04/08/11
PREP. BATCH:	IPD020S	IPD020S	IPD020S		
CALIB. REF:	ID8D012021	ID8D012021	ID8D012021		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	48.6	97	50	49.3	99	1	80-120	20

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/08/11
SDG NO.	: 11D029	Date Extracted:	04/08/11 16:20
Sample ID:	MBLK2S	Date Analyzed:	04/11/11 14:02
Lab Samp ID:	IPD020SB	Dilution Factor:	1
Lab File ID:	ID8D012035	Matrix :	SOIL
Ext Btch ID:	IPD020S	% Moisture :	NA
Calib. Ref.:	ID8D012033	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	IPD020SB	IPD020SL	IPD020SC		
LAB FILE ID:	ID8D012035	ID8D012036	ID8D012037		
DATIME EXTRCTD:	04/08/1116:20	04/08/1116:20	04/08/1116:20	DATE COLLECTED:	NA
DATIME ANALYZD:	04/11/1114:02	04/11/1114:05	04/11/1114:08	DATE RECEIVED:	04/08/11
PREP. BATCH:	IPD020S	IPD020S	IPD020S		
CALIB. REF:	ID8D012033	ID8D012033	ID8D012033		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	48.7	97	50	49.6	99	2	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.980	4.90		
SAMPLE ID:	CB155-10-01	CB155-10-01DL		
EMAX SAMP ID:	D029-05	D029-05J		
LAB FILE ID:	ID8D012027	ID8D012028		
DATE EXTRACTED:	04/08/1115:00	04/08/1115:00	DATE COLLECTED:	04/02/11 14:10
DATE ANALYZED:	04/11/1113:40	04/11/1113:42	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD017S	IPD017S		
CALIB. REF:	ID8D012021	ID8D012021		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	37.1	38.4	4	10

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.725	3.62		
SAMPLE ID:	CB147-09-01	CB147-09-01DL		
EMAX SAMP ID:	D029-24R	D029-24J		
LAB FILE ID:	ID8D012040	ID8D012041		
DATE EXTRACTED:	04/08/1116:20	04/08/1116:20	DATE COLLECTED:	04/04/11 11:35
DATE ANALYZED:	04/11/1114:16	04/11/1114:18	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD020S	IPD020S		
CALIB. REF:	ID8D012033	ID8D012033		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	46.8	47.8	2	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.980	0.980		
SAMPLE ID:	CB155-10-01			
CONTROL NO.:	D029-05	D029-05A		
LAB FILE ID:	ID8D012027	ID8D012026		
DATIME EXTRCTD:	04/08/1115:00	04/08/1115:00	DATE COLLECTED:	04/02/11 14:10
DATIME ANALYZD:	04/11/1113:40	04/11/1113:37	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD017S	IPD017S		
CALIB. REF:	ID8D012021	ID8D012021		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	37.1	49	83.3	94	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D029
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.725	0.725		
SAMPLE ID:	CB147-09-01			
CONTROL NO.:	D029-24R	D029-24A		
LAB FILE ID:	ID8D012040	ID8D012039		
DATIME EXTRCTD:	04/08/1116:20	04/08/1116:20	DATE COLLECTED:	04/04/11 11:35
DATIME ANALYZD:	04/11/1114:16	04/11/1114:13	DATE RECEIVED:	04/06/11
PREP. BATCH:	IPD020S	IPD020S		
CALIB. REF:	ID8D012033	ID8D012033		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	46.8	36.2	80.1	92	75-125

7038A

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/11/11 12:25
End Date: 4/11/11 14:27

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:
Pb QCs OK

Book #: AD8-019
Instrument No.: D8
Analytical Batch: 1D8D012
Analytical Sequence: S-11D6010(V11)
Method File: 11D6010(V11)
Database: EMAX13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-S0-02	S30	SM1B14-4201
S1	NA	S31	4202
S2		ICV	2701
S3		CCV	4803
S4		ICSA	5001
S5		ICSAB	4601
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1,3	SM1B14-41-09
S10		MRL2	1901
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-31-02		
S21	3702		
S22	3703		
S23	3704		
S24	4001		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	40-04		

Analyzed By: TH
Date: 4/11/11

SEQUENCE FILE : ID8D012

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8D012001	Blank	12:25	04/11/11	1.000
ID8D012002	S20	12:28	04/11/11	1.000
ID8D012003	S21	12:31	04/11/11	1.000
ID8D012004	S22	12:34	04/11/11	1.000
ID8D012005	S23	12:36	04/11/11	1.000
ID8D012006	S24	12:40	04/11/11	1.000
ID8D012007	S25	12:42	04/11/11	1.000
ID8D012008	S26	12:45	04/11/11	1.000
ID8D012009	S27	12:48	04/11/11	1.000
ID8D012010	S28	12:51	04/11/11	1.000
ID8D012011	S29	12:54	04/11/11	1.000
ID8D012012	S30	12:57	04/11/11	1.000
ID8D012013	S31	13:00	04/11/11	1.000
ID8D012014	ICV	13:03	04/11/11	1.000
ID8D012015	ICB	13:05	04/11/11	1.000
ID8D012016	MRLD1101	13:08	04/11/11	1.000
ID8D012017	MRLD1102	13:11	04/11/11	1.000
ID8D012018	MRLD1103	13:15	04/11/11	1.000
ID8D012019	ICSA1	13:18	04/11/11	1.000
ID8D012020	ICSAB1	13:21	04/11/11	1.000
ID8D012021	CCV1	13:23	04/11/11	1.000
ID8D012022	CCB1	13:26	04/11/11	1.000
ID8D012023	IPD017SB	13:29	04/11/11	1.000
ID8D012024	IPD017SL	13:32	04/11/11	1.000
ID8D012025	IPD017SC	13:34	04/11/11	1.000
ID8D012026	D029-05A	13:37	04/11/11	1.000
ID8D012027	D029-05	13:40	04/11/11	1.000
ID8D012028	D029-05J	13:42	04/11/11	5.000
ID8D012029	D029-06	13:45	04/11/11	1.000
ID8D012030	D029-10	13:48	04/11/11	1.000
ID8D012031	D029-14	13:51	04/11/11	1.000
ID8D012032	Blank	13:53	04/11/11	1.000
ID8D012033	CCV2	13:56	04/11/11	1.000
ID8D012034	CCB2	13:59	04/11/11	1.000
ID8D012035	IPD020SB	14:02	04/11/11	1.000
ID8D012036	IPD020SL	14:05	04/11/11	1.000
ID8D012037	IPD020SC	14:08	04/11/11	1.000
ID8D012038	D029-18	14:10	04/11/11	1.000
ID8D012039	D029-24A	14:13	04/11/11	1.000
ID8D012040	D029-24R	14:16	04/11/11	1.000
ID8D012041	D029-24J	14:18	04/11/11	5.000
ID8D012042	Blank	14:21	04/11/11	1.000
ID8D012043	CCV3	14:24	04/11/11	1.000
ID8D012044	CCB3	14:27	04/11/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8D012 DATE : 04/11/11 INST : EMAXI

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	108	99	104	99	100	99	100	101	97	94	101	101	96	102	95	94	99	98	97	103	100	104	97	94	98	99	99	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD1101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD1102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD1103	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	94	----	----	----	94	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	99	101	105	105	98	107	96	95	94	94	107	94	93	108	94	91	102	98	103	103	108	108	97	84	98	97	98	105
CCV1	107	103	106	100	100	100	101	103	98	97	101	100	97	103	95	97	102	99	99	105	101	105	99	95	101	100	99	106
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	107	102	105	100	100	100	100	104	99	97	100	101	97	103	96	97	101	99	99	104	101	105	99	95	100	99	99	106
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD020SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD020SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD020SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	105	102	106	100	99	100	100	102	98	98	100	100	97	102	95	97	102	99	99	104	100	105	99	94	102	99	98	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8D012 (SOIL) DATE : 04/11/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	6.89	1.52	.460	.120	.170	6.68	.050	6.00	.230	-.010	.180	2.31	.520	.510	.350	.320	.590	.150	69.4	-.100	.110	28.7	.010	.550	.040	.290	.140	.420
MRLD1101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD1102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD1103	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	2.69	.620	1.19	.000	41.7	2.88	----	-.120	-.380	1.08	----	-1.71	5.91	----	1.51	-1.02	.130	-22.1	2.61	.180	114	1.35	2.79	1.64	4.13	-1.52	2.46
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	38.4	1.35	1.11	1.52	.520	6.52	.570	649	.730	.110	1.19	15.9	1.14	.470	23.1	1.13	1.01	.790	103	1.06	.230	61.9	.330	.610	.180	-.040	.490	24.3
IPD017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	25.4	1.75	1.84	1.09	.390	5.91	.370	445	.590	.220	.560	11.8	.910	.370	7.89	.770	.920	.520	67.9	.900	.090	41.7	.170	.920	-.040	.160	.390	16.8
IPD020SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD020SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD020SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24R	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D029-24J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	3.83	.690	.620	.150	.080	6.24	-.040	11.0	-.030	-.110	.060	2.28	1.09	-.360	-.230	.140	.570	.030	63.6	1.18	.080	25.5	-.050	.430	-.210	.000	.020	1.34

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8D012001			1	☒	unk	—
2	0	0	0	0	Unk	S20		ID8D012002			1	☒	unk	—
3	0	0	0	0	Unk	S21		ID8D012003			1	☒	unk	—
4	0	0	0	0	Unk	S22		ID8D012004			1	☒	unk	—
5	0	0	0	0	Unk	S23		ID8D012005			1	☒	unk	—
6	0	0	0	0	Unk	S24		ID8D012006			1	☒	unk	—
7	0	0	0	0	Unk	S25		ID8D012007			1	☒	unk	—
8	0	0	0	0	Unk	S26		ID8D012008			1	☒	unk	—
9	0	0	0	0	Unk	S27		ID8D012009			1	☒	unk	—
10	0	0	0	0	Unk	S28		ID8D012010			1	☒	unk	—
11	0	0	0	0	Unk	S29		ID8D012011			1	☒	unk	—
12	0	0	0	0	Unk	S30		ID8D012012			1	☒	unk	—
13	0	0	0	0	Unk	S31		ID8D012013			1	☒	unk	—
14	1	2	1	1	QC	ICV		ID8D012014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8D012015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLD1101		ID8D012016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLD1102		ID8D012017			1	☒	MRL-AFCEE	None
18	3	2	3	1	QC	MRLD1103		ID8D012018			1	☒	MRL-EMAX	None
19	5	2	5	1	QC	ICSA1		ID8D012019			1	☒	ICSA	None
20	6	2	6	1	QC	ICSAB1		ID8D012020			1	☒	ICSAB	None
21	7	2	7	1	QC	CCV1		ID8D012021			1	☒	CCV	None
22	8	2	8	1	QC	CCB1		ID8D012022			1	☒	3XIDL	None
23	9	2	9	1	QC	IPD017SB		ID8D012023			1	☒	1/2LOQ	None
24	10	2	10	1	QC	IPD017SL		ID8D012024			1	☒	LCS	None
25	11	2	11	1	QC	IPD017SC		ID8D012025			1	☒	LCS	None
26	12	2	12	1	Unk	D029-05A	dried & sieved	ID8D012026			1	☒	unk	—
27	13	2	1	2	Unk	D029-05	dried & sieved	ID8D012027			1	☒	unk	—
28	14	2	2	2	Unk	D029-05J	dried & sieved	ID8D012028			1	☒	unk	—
29	15	2	3	2	Unk	D029-06	dried & sieved	ID8D012029			1	☒	unk	—
30	16	2	4	2	Unk	D029-10	dried & sieved	ID8D012030			1	☒	unk	—
31	17	2	5	2	Unk	D029-14	dried & sieved	ID8D012031			1	☒	unk	—
32	18	2	6	2	Blank	Blank		ID8D012032			1	☐		—
33	19	2	7	2	QC	CCV2		ID8D012033			1	☒	CCV	None
34	20	2	8	2	QC	CCB2		ID8D012034			1	☒	3XIDL	None
35	21	2	9	2	QC	IPD020SB		ID8D012035			1	☒	1/2LOQ	None
36	22	2	10	2	QC	IPD020SL		ID8D012036			1	☒	LCS	None
37	23	2	11	2	QC	IPD020SC		ID8D012037			1	☒	LCS	None
38	24	2	12	2	Unk	D029-18	dried & sieved	ID8D012038			1	☒	unk	—
39	25	2	1	3	Unk	D029-24A	dried & sieved	ID8D012039			1	☒	unk	—

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	26	2	2	3	Unk	D029-24R	dried & sieved	ID8D012040			1	☒	unk	---
41	27	2	3	3	Unk	D029-24J	dried & sieved	ID8D012041			1	☒	unk	---
42	28	2	4	3	Blank	Blank		ID8D012042			1	☐		---
43	29	2	5	3	QC	CCV3		ID8D012043			1	☒	CCV	None
44	30	2	6	3	QC	CCB3		ID8D012044			1	☒	3XIDL	None
45	31	2	7	3	QC	IPD018WB		ID8D012045			1	☒	1/2LOQ	None
46	32	2	8	3	QC	IPD018WL		ID8D012046			1	☒	LCS	None
47	33	2	9	3	QC	IPD018WC		ID8D012047			1	☒	LCS	None
48	34	2	10	3	Unk	D031-04A		ID8D012048			1	☒	unk	---
49	35	2	11	3	Unk	D031-04		ID8D012049			1	☒	unk	---
50	36	2	12	3	Unk	D031-04J		ID8D012050			1	☒	unk	---
51	37	2	1	4	Unk	D031-04M		ID8D012051			1	☒	unk	---
52	38	2	2	4	Unk	D031-04S		ID8D012052			1	☒	unk	---
53	39	2	3	4	Unk	D031-02		ID8D012053			1	☒	unk	---
54	40	2	4	4	Blank	Blank		ID8D012054			1	☐		---
55	41	2	5	4	QC	CCV4		ID8D012055			1	☒	CCV	None
56	42	2	6	4	QC	CCB4		ID8D012056			1	☒	3XIDL	None
57	43	2	7	4	Unk	D031-03		ID8D012057			1	☒	unk	---
58	44	2	8	4	Unk	D423-07		ID8D012058			1	☒	unk	---
59	45	2	9	4	Unk	C302-05		ID8D012059			1	☒	unk	---
60	46	2	10	4	Unk	D048-05		ID8D012060			1	☒	unk	---
61	47	2	11	4	Unk	D074-05		ID8D012061			1	☒	unk	---
62	48	2	12	4	Blank	Blank		ID8D012062			1	☐		---
63	49	2	1	5	QC	ICSA2		ID8D012063			1	☒	ICSA	None
64	50	2	2	5	QC	ICSAB2		ID8D012064			1	☒	ICSAB	None
65	51	2	3	5	QC	CCV5		ID8D012065			1	☒	CCV	None
66	52	2	4	5	QC	CCB5		ID8D012066			1	☒	3XIDL	None
67	53	2	5	5	QC	TXD002WB	TCLP	ID8D012067			1	☒	1/2LOQ	None
68	89	3	5	3	QC	SPD001SB	SPLP	ID8D012068			1	☒	1/2LOQ	None
69	54	2	6	5	Unk	C964-01A	TCLP	ID8D012069			1	☒	unk	---
70	55	2	7	5	Unk	C964-01	TCLP	ID8D012070			1	☒	unk	---
71	56	2	8	5	Unk	C964-01J	TCLP	ID8D012071			1	☒	unk	---
72	57	2	9	5	Unk	C964-01M	TCLP	ID8D012072			1	☒	unk	---
73	58	2	10	5	Unk	C964-01S	TCLP	ID8D012073			1	☒	unk	---
74	59	2	11	5	Blank	Blank		ID8D012074			1	☐		---
75	60	2	12	5	QC	CCV6		ID8D012075			1	☒	CCV	None
76	61	3	1	1	QC	CCB6		ID8D012076			1	☒	3XIDL	None
77	90	3	6	3	Unk	D008-01A	SPLP	ID8D012077			1	☒	unk	---
78	91	3	7	3	Unk	D008-01	SPLP	ID8D012078			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	92	3	8	3	Unk	D008-01J	SPLP	ID8D012079			1	☒	unk	---
80	93	3	9	3	Unk	D008-01M	SPLP	ID8D012080			1	☒	unk	---
81	94	3	10	3	Unk	D008-01S	SPLP	ID8D012081			1	☒	unk	---
82	95	3	11	3	Unk	D008-02	SPLP	ID8D012082			1	☒	unk	---
83	96	3	12	3	Unk	D008-03	SPLP	ID8D012083			1	☒	unk	---
84	97	3	1	4	Unk	D008-04	SPLP	ID8D012084			1	☒	unk	---
85	98	3	2	4	Unk	D008-05	SPLP	ID8D012085			1	☒	unk	---
86	99	3	3	4	Blank	Blank		ID8D012086			1	☐		---
87	100	3	4	4	QC	CCV7		ID8D012087			1	☒	CCV	None
88	101	3	5	4	QC	CCB7		ID8D012088			1	☒	3XIDL	None
89	62	3	2	1	QC	WTD001SB	STLC	ID8D012089			1	☒	1/2LOQ	None
90	63	3	3	1	Unk	C270-01A	STLC	ID8D012090			1	☒	unk	---
91	64	3	4	1	Unk	C270-01	STLC	ID8D012091			1	☒	unk	---
92	65	3	5	1	Unk	C270-01J	STLC	ID8D012092			1	☒	unk	---
93	66	3	6	1	Unk	C270-01M	STLC	ID8D012093			1	☒	unk	---
94	67	3	7	1	Unk	C270-01S	STLC	ID8D012094			1	☒	unk	---
95	68	3	8	1	Blank	Blank		ID8D012095			1	☐		---
96	69	3	9	1	Blank	Blank		ID8D012096			1	☐		---
97	70	3	10	1	QC	CCV8		ID8D012097			1	☒	CCV	None
98	71	3	11	1	QC	CCB8		ID8D012098			1	☒	3XIDL	None
99	72	3	12	1	Unk	D423-05T	10X	ID8D012099			1	☒	unk	---
100	73	3	1	2	Unk	D423-05M	10X	ID8D012100			1	☒	unk	---
101	74	3	2	2	Unk	D423-05S	10X	ID8D012101			1	☒	unk	---
102	75	3	3	2	Unk	C426-01T	10X	ID8D012102			1	☒	unk	---
103	76	3	4	2	Unk	C426-02T	10X	ID8D012103			1	☒	unk	---
104	77	3	5	2	Unk	C426-03T	10X	ID8D012104			1	☒	unk	---
105	78	3	6	2	Unk	C426-04T	10X	ID8D012105			1	☒	unk	---
106	79	3	7	2	Unk	D427-04T	10X	ID8D012106			1	☒	unk	---
107	80	3	8	2	Blank	Blank		ID8D012107			1	☐		---
108	81	3	9	2	QC	CCV9		ID8D012108			1	☒	CCV	None
109	82	3	10	2	QC	CCB9		ID8D012109			1	☒	3XIDL	None
110	83	3	11	2	Unk	D424-01T	10X	ID8D012110			1	☒	unk	---
111	84	3	12	2	Unk	D424-02T	10X	ID8D012111			1	☒	unk	---
112	85	3	1	3	Unk	D424-03T	10X	ID8D012112			1	☒	unk	---
113	86	3	2	3	Blank	Blank		ID8D012113			1	☐		---
114	87	3	3	3	QC	CCV10		ID8D012114			1	☒	CCV	None
115	88	3	4	3	QC	CCB10		ID8D012115			1	☒	3XIDL	None

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ID8D012 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00101	.00000	-.00001	.00016	.00002	.00008	-.00004	.00023	-.00001	-.00096	Blank
2	S20					.84404		.11421				S20
3	S21					8.3204		1.0980				S21
4	S22				.47180						.15459	S22
5	S23				4.6026						1.6120	S23
6	S24						.09281					S24
7	S25						.95354					S25
8	S26	.25980							.87296	.13251		S26
9	S27	9.3937							8.0461	1.2823		S27
10	S28		.00491									S28
11	S29		.04784									S29
12	S30			.00128								S30
13	S31			.00513								S31
14	ICV	107.53	1.4901	1.0444	1.9831	1.5056	2.4799	2.0073	76.051	2.4369	.94043	ICV
15	ICB	.00689	.00152	.00046	.00012	.00017	.00668	.00005	.00600	.00023	-.00001	ICB
16	MRLD1101	.22253	.09954	.01131	.01052	.01006	.01503*	.01042	1.0688	.01030	.00922	MRLD1101
17	MRLD1102	.22736	.05030	.01029	.00655*	.00425	.10030	.00532	.59588	.01040	.00905	MRLD1102
18	MRLD1103	.21906	.10134	.01172	.01048	.01017	.01357*	.01055	1.0560	.01040	.00921	MRLD1103
19	ICSA1	393.08	.00269	.00062	.00119	.00000	.04171	.00288	472.30	-.00012	-.00038	ICSA1
20	ICSAB1	397.97	1.0087	1.0488	.52649	.49012	.53546	.95801	473.12	.47181	.46979	ICSAB1
21	CCV1	106.87	1.5414	1.0614	2.0067	1.4931	2.5096	2.0121	77.137	2.4557	.97478	CCV1
22	CCB1	.03835	.00135	.00111	.00152	.00052*	.00652	.00057*	.64902*	.00073	.00011	CCB1
23	IPD017SB	.02242	.00001	-.00024	.00008	.00007	.00563	.00004	.03305	.00095	-.00004	IPD017SB
24	IPD017SL	5.0678	2.3463	.49019	.49192	.49791	.46048	.49685	50.028	.49576	.48519	IPD017SL
25	IPD017SC	5.1114	2.3664	.49798	.50098	.50644	.46522	.50153	50.904	.50284	.49228	IPD017SC
26	D029-05A	69.706	2.3832	.56031	1.3852	.51575	.51207	.57908	165.23	.61563	.54190	D029-05A
27	D029-05	65.432	.01291	.05816	.91027	.00662	.04562	.10203	123.31	.12837	.04798	D029-05
28	D029-05J	13.636	.00271	.01326	.18525	.00137	.01142	.02176	26.312	.02708	.00951	D029-05J
29	D029-06	53.809	.01271	.07543	1.1088	.00651	.04470	.09965	258.72	.14515	.08617	D029-06
30	D029-10	83.780	.01390	.10465	1.1679	.00706	.07683	.08894	173.49	.29984	.06708	D029-10
31	D029-14	106.48	.00969	.08527	1.6496	.00982	.05723	.05328	41.450	.19937	.07974	D029-14
32	Blank	.02248	-.00010	.00090	.00073	.00005	.00082	-.00003	.10115	-.00005	-.00013	Blank
33	CCV2	106.72	1.5271	1.0533	2.0009	1.4952	2.5025	2.0089	77.719	2.4706	.97329	CCV2
34	CCB2	.02536	.00175	.00184	.00109	.00039*	.00591	.00037	.44536*	.00059	.00022	CCB2
35	IPD020SB	.01135	-.00029	-.00155	.00032	.00008	.00558	-.00015	.10072	.00083	-.00013	IPD020SB
36	IPD020SL	5.0258	2.3463	.48870	.49131	.49786	.45917	.49538	50.270	.49745	.48548	IPD020SL
37	IPD020SC	5.1597	2.3800	.50253	.50320	.50756	.46411	.50658	50.663	.50639	.49633	IPD020SC
38	D029-18	68.997	.00815	.05846	1.3430	.00644	.04047	.01089	27.943	.14449	.08257	D029-18
39	D029-24A	84.137	2.3983	.59636	1.5549	.51976	.51761	.54928	70.254	.68469	.54504	D029-24A
40	D029-24R	79.101	.01444	.08381	1.0724	.00623	.06077	.05369	20.703	.19274	.04599	D029-24R
41	D029-24J	16.695	.00335	.01888	.21615	.00124	.01338	.01109	4.3295	.03949	.00904	D029-24J
42	Blank	.02228	-.00009	.00030	.00093	.00025	.00120	.00030	.43598	.00043	.00014	Blank
43	CCV3	105.10	1.5226	1.0555	2.0012	1.4877	2.4925	1.9935	76.518	2.4480	.97664	CCV3
44	CCB3	.00383	.00069	.00062	.00015	.00008	.00624	-.00004	.01104	-.00003	-.00011	CCB3
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00150	-.00001	-.00008	.00000	.00000	.00001	-.00012	-.00057	-.00037	.00000	Blank
2	S20			.19848			.10718					S20
3	S21			1.9769			1.0657					S21
4	S22	.32003	.05736									S22
5	S23	3.0762	2.1898									S23
6	S24							.75404				S24
7	S25							7.5615				S25
8	S26								.77460	.31554		S26
9	S27								7.4528	3.1545		S27
10	S28					.10616						S28
11	S29					.43218						S29
12	S30				.02623						.00141	S30
13	S31				.12900						.00557	S31
14	ICV	2.5129	25.132	2.3921	.51055	56.993	2.3539	2.4831	2.4411	58.152	1.0298	ICV
15	ICB	.00018	.00231	.00052	.00051	.00035	.00032	.00059	.00015	.06937	-.00010	ICB
16	MRLD1101	.01048	.22024	.01085	.01075	.94063	.00995	.01013	.01021	.99621	.00950	MRLD1101
17	MRLD1102	.01084	.11189	.00345	.10001	.18936	.00534	.01000	.01040	1.0014	.01059	MRLD1102
18	MRLD1103	.01050	.21950	.01121	.01020	.94167	.01006	.01019	.01013	.94712	.00989	MRLD1103
19	ICSA1	.00108	188.67	-.00171	.00591	189.16	.00151	-.00102	.00013	-.02212	.00261	ICSA1
20	ICSAB1	.53295	188.32	.93254	1.0781	187.51	.45437	1.0233	.97686	77.134	1.0344	ICSAB1
21	CCV1	2.5261	25.082	2.4253	.51615	57.080	2.4222	2.5463	2.4768	59.659	1.0538	CCV1
22	CCB1	.00119*	.01586	.00114	.00047	.02315	.00113	.00101*	.00079	.10297	.00106	CCB1
23	IPD017SB	.00025	.01347	.00119	-.00001	.00168	.00036	.00061	.00071	.07750	.00053	IPD017SB
24	IPD017SL	.50160	4.9830	.48635	.00034*	46.417	.47440	.52216	.44853	47.800	.48346	IPD017SL
25	IPD017SC	.50702	5.0592	.49275	.00068*	47.062	.48215	.53154	.45593	48.636	.49113	IPD017SC
26	D029-05A	.72211	108.53	.84976	.03472	69.815	3.1253	.53237	.54964	53.580	.50049	D029-05A
27	D029-05	.19890	108.54	.37831	.03460	24.020	2.7823	.00515	.08835	4.2949	.00594	D029-05
28	D029-05J	.04009	23.301	.07833	.00654	5.0628	.58789	.00109	.01772	.88313	.00222	D029-05J
29	D029-06	.63103	122.96	.23455	.02945	42.735	4.3913	.00751	.10093	5.3520	.00642	D029-06
30	D029-10	.26435	223.40	.32609	.03700	34.853	5.8544	.01102	.09043	4.6188	.00595	D029-10
31	D029-14	.12305	174.78	.35662	.04495	10.673	5.3379	.00832	.13235	6.7854	.00562	D029-14
32	Blank	-.00021	.05444	.00076	.00020	.00908	.00277	.00011	.00006	.02412	-.00025	Blank
33	CCV2	2.5096	25.202	2.4244	.51469	57.418	2.4301	2.5333	2.4723	59.675	1.0447	CCV2
34	CCB2	.00056	.01179	.00091	.00037	.00789	.00077	.00092*	.00052	.06792	.00090	CCB2
35	IPD020SB	.00014	.00806	-.00016	.00008	.00292	.00036	.00035	.00341	.05201	.00084	IPD020SB
36	IPD020SL	.49763	4.9764	.48659	.00014*	46.591	.47487	.52108	.45215	47.831	.48330	IPD020SL
37	IPD020SC	.51228	5.0924	.49625	.00082*	46.941	.48475	.52770	.46219	48.327	.49426	IPD020SC
38	D029-18	.06456	114.43	.26776	.02836	6.3588	5.7930	.00578	.06050	5.2255	.00409	D029-18
39	D029-24A	.60107	165.34	1.1049	.03675	52.994	3.3827	.53877	.54028	54.511	.51012	D029-24A
40	D029-24R	.07214	167.21	.64506	.03647	6.2848	3.0349	.00907	.07311	6.0731	.00540	D029-24R
41	D029-24J	.01416	35.017	.13199	.00709	1.3057	.62969	.00174	.01439	1.2513	.00035	D029-24J
42	Blank	.00040	.01830	.00097	-.00002	.01592	.00077	.00042	.00050	.05004	.00055	Blank
43	CCV3	2.5060	25.024	2.4257	.51092	56.949	2.4139	2.5473	2.4745	59.145	1.0426	CCV3
44	CCB3	.00006	.00228	.00109	-.00036	-.00023	.00014	.00057	.00003	.06362	.00118	CCB3
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00010	.00031	-.00008	-.00002	.00009	.00000	-.00025	.00042	Blank
2	S20									S20
3	S21									S21
4	S22							.13240		S22
5	S23							1.3224		S23
6	S24		1.0124							S24
7	S25		5.8602							S25
8	S26									S26
9	S27									S27
10	S28				.00605					S28
11	S29				.05763					S29
12	S30	.04192		.12766		.02684	.01589		.58868	S30
13	S31	.20705		.62254		.13037	.07894		5.8194	S31
14	ICV	.49924	62.161	.48437	2.3467	.48969	.49509	1.4783	2.6268	ICV
15	ICB	.00011	.02874	.00001	.00055	.00004	.00029	.00014	.00042	ICB
16	MRLD1101	.00999	1.0550	.01012	.01154	-.00015	.00988	.01022	.02428*	MRLD1101
17	MRLD1102	.01026	.53643	.01040	.01164	.00959	.01069	.01047	.01462*	MRLD1102
18	MRLD1103	.01009	1.0474	.01019	.01106	.00027	.01023	.01022	.02198	MRLD1103
19	ICSA1	.00018	.11434	.00135	.00279	.00164	.00413	-.00152	.00246	ICSA1
20	ICSA81	1.0834	81.349	.48716	.83758	.98412	.96849	.48892	1.0518	ICSA81
21	CCV1	.50657	63.232	.49522	2.3799	.50291	.49867	1.4848	2.6475	CCV1
22	CCB1	.00023	.061B6	.00033	.00061	.00018	-.00004	.00049	.02432*	CCB1
23	IPD017SB	-.00010	.06581	.00000	-.00021	.04102	.00016	.00018	.00438	IPD017SB
24	IPD017SL	.47699	50.848	.46442	.46237	.52193	.49355	.50270	.54367	IPD017SL
25	IPD017SC	.48173	51.725	.47316	.46720	.53082	.50066	.50868	.55015	IPD017SC
26	D029-05A	.48270	53.296	.58621	.43945	.52712	1.0941	.73940	20.193	D029-05A
27	D029-05	-.00044	.80773	.11608	-.00008	.04715	.61825	.24649	20.288	D029-05
28	D029-05J	-.00001	.16962	.02354	.00042	.00941	.12739	.05064	4.1804	D029-05J
29	D029-06	-.00047	.92181	.17386	-.00069	.04527	.61250	.30443	18.571	D029-06
30	D029-10	-.00031	1.2102	.14064	.00088	.05017	1.0945	.39969	18.640	D029-10
31	D029-14	-.00067	.69348	.10749	.00089	.04725	.90515	.38573	9.8909	D029-14
32	Blank	.00014	.00990	.00000	.00042	.00023	.00028	.00016	.00380	Blank
33	CCV2	.50522	63.236	.49513	2.3649	.50107	.49571	1.4890	2.6572	CCV2
34	CCB2	.00009	.04167	.00017	.00092	-.00004	.00016	.00039	.01682*	CCB2
35	IPD020SB	-.00012	.05722	.00005	-.00057	.04039	.00022	.00026	.03980*	IPD020SB
36	IPD020SL	.47504	50.809	.46553	.45937	.52005	.49512	.50241	.57896	IPD020SL
37	IPD020SC	.48552	51.363	.46954	.47031	.52630	.49860	.51394	.59099	IPD020SC
38	D029-18	-.00033	.58082	.09670	-.00109	.04676	.83128	.28677	1.8681	D029-18
39	D029-24A	.47843	52.940	.55929	.45525	.53461	1.5166	.84727	7.7929	D029-24A
40	D029-24R	-.00051	1.3434	.08461	.00117	.05040	1.0426	.34980	7.4998	D029-24R
41	D029-24J	-.00001	.27541	.01697	.00016	.00999	.21040	.07053	1.4741	D029-24J
42	Blank	.00010	.02466	.00018	.00082	-.00003	.00010	.00026	.01643	Blank
43	CCV3	.50212	62.731	.49306	2.3569	.50763	.49699	1.4743	2.6524	CCV3
44	CCB3	.00008	.02553	-.00005	.00043	-.00021	.00000	.00002	.00134	CCB3
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8D012 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 5384880308
sample D029-24 was lost due to spill, will be redigested

Book #: EIP-099
Batch: IPD017S
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	95 °C		93 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-300	10
HNO3(1:1)	SM5B-02-151	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 111241117

Prepared By: HF
Standard Added By: HF Witnessed By: CW
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPD017S01	IPD017SB	1	g	4/8/11 11:57	100	1	100	1	
11IPD017S02	IPD017SL	1	g	4/8/11 11:57	100	1	100	1	
11IPD017S03	IPD017SC	1	g	4/8/11 11:57	100	1	100	1	
11IPD017S04	D423-05	1.21	g	4/8/11 12:00	100	1	100	0.826	
11IPD017S05	D423-05M	1.15	g	4/8/11 12:01	100	1	100	0.87	
11IPD017S06	D423-05S	1.08	g	4/8/11 12:01	100	1	100	0.926	
11IPD017S07	D029-05	1.02	g	4/8/11 12:02	100	1	100	0.98	dried & sieved ✓
11IPD017S08	D029-06	1.08	g	4/8/11 12:03	100	1	100	0.926	dried & sieved ✓
11IPD017S09	D029-10	1.21	g	4/8/11 12:04	100	1	100	0.826	dried & sieved ✓
11IPD017S10	D029-14	1.06	g	4/8/11 12:04	100	1	100	0.943	dried & sieved ✓
11IPD017S11	D029-18	1.04	g	4/8/11 12:05	100	1	100	0.962	dried & sieved ✓
11IPD017S12	D029-24	1.09	g	4/8/11 12:06		1		0.917	LOST DUE TO SPILL, WILL BE REDIGESTED
11IPD017S13	C426-01	0.47	g	4/8/11 12:09	100	1	100	2.128	
11IPD017S14	C426-02	1	g	4/8/11 12:10	100	1	100	1	
11IPD017S15	C426-03	1.03	g	4/8/11 12:12	100	1	100	0.971	
11IPD017S16	C426-04	0.83	g	4/8/11 12:15	100	1	100	1.205	
11IPD017S17	D427-04	1.05	g	4/8/11 12:17	100	1	100	0.952	
11IPD017S18	D424-01	0.21	g	4/8/11 12:20	100	1	100	4.762	
11IPD017S19	D424-02	1.09	g	4/8/11 12:22	100	1	100	0.917	
11IPD017S20	D424-03	1.01	g	4/8/11 12:25	100	1	100	0.99	

HF 4/8/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/8/11 15:00 Prepared By: HF

☑ Digestion Ended @ 4/8/11 17:00 Checked By: TH

Comments: Date 4/8/11

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIP-099
Batch: IDD0205
Matrix: Soil
Digestor ID: C

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	4
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		90 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-333	5+5
H_2O_2	SW1A-04-300	10
HNO3(1:1)	SM5B-02-150	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☐ HNO_3 dispenser checked @ 1.0 ml with Class A volumetric flask
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 2.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask
☑ Thermometer ID: 11124146

Prepared By: HF
Standard Added By: HF Witnessed By: NT
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC

FileID: IPD020S.xls

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPD020S01	IPD020SB	1	g	4/8/11 16:31	100	1	100	1	
11IPD020S02	IPD020SL	1	g	4/8/11 16:31	100	1	100	1	
11IPD020S03	IPD020SC	1	g	4/8/11 16:31	100	1	100	1	✓
11IPD020S04	D029-24R	1.38	g	4/8/11 16:31	100	1	100	0.725	dried & sieved

HF 4/8/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/8/11 16:20 Prepared By: HF

☑ Digestion Ended @ 4/8/11 18:20 Checked By: TH

Comments: Date 4/8/11

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CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11D182**

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GC/MS-SVOA	METHOD 3550B/8270C	3000 – 3033
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GC-VOA	**	4000 –
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	METHOD 7471A	7148 – 7158
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 04-26-2011
EMAX Batch No.: 11D182

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 04/16/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB146-01-01	D182-01	04/12/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB146-01-02	D182-02	04/12/11	SOIL	CADMIUM
CB146-01-02FD	D182-03	04/12/11	SOIL	CADMIUM
CB231-18-01	D182-04	04/12/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB231-18-02	D182-05	04/12/11	SOIL	CADMIUM
CB146-02-01	D182-06	04/12/11	SOIL	CADMIUM
CB146-02-02	D182-07	04/12/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB237-10-01	D182-08	04/11/11	SOIL	CADMIUM
CB237-10-02	D182-09	04/11/11	SOIL	CADMIUM
CB237-12-01	D182-10	04/11/11	SOIL	CADMIUM
FAIRLAND 1	D182-11	04/15/11	SOIL	VOLATILE ORGANICS BY GC/MS
FAIRLAND 2	D182-12	04/15/11	SOIL	VOLATILE ORGANICS BY GC/MS
FAIRLAND 3	D182-13	04/15/11	SOIL	VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
FAIRLAND	D182-14	04/15/11	SOIL	MERCURY
				SEMIVOLATILE ORGANICS BY GCMS
				PAH BY 8270C SIM
				PESTICIDES ORGANOCHLORINE
				POLYCHLORINATED BIPHENYLS (PCBS)
				TOTAL METALS BY ICP-MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Chain of
Custody Record

110182

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client CH2M HILL, Inc.	**Project Manager** John Ynfante	**Date** 4-15-11	**Chain of Custody Number** 1 of 1
Address 14701 St. Mary's Lane, Suite 300	**Telephone Number** (281) 721-8546 / **Fax Number** (281) 721-8401		
City/State/Zip Houston, TX 77079	**Site Contact:** John Ynfante / **PO Number:** Contact John Ynfante	**EMAX Control Number**	
Project Name Tar Creek OU4	**Carrier/Waybill Numbe** / **CH2M HILL Project Number:** 413831.CV.01		
Samplers: Various CH2M HILL personnel			

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	Analysis: Pb (sieved)	Zn	Cadmium Only	RCRA Total Metals	Pesticides/PCB's	SVOC's	VOC's	Comments
1	CB146-01-01	April 12, 2011	17:25	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil	x	x	x					Sieve lead sample
2	CB146-01-02	April 12, 2011	17:30	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			x					Sieve lead sample
3	CB146-01-02FD	April 12, 2011	17:30	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			x					Sieve lead sample
4	CB231-18-01	April 12, 2011	9:30	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil	x	x	x					Sieve lead sample
5	CB231-18-02	April 12, 2011	9:35	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			x					Sieve lead sample
6	CB146-02-01	April 12, 2011	7:45	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			x					Sieve lead sample
7	CB146-02-02	April 12, 2011	17:50	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil	x	x	x					Sieve lead sample
8	CB237-10-01	April 11, 2011	14:00	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			x					Sieve lead sample
9	CB237-10-02	April 11, 2011	14:05	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			x					Sieve lead sample
10	CB237-12-01	April 11, 2011	12:05	XRF Cup & 4 oz	Plastic & Glass	2	ICE	Soil			x					Sieve lead sample
11	Fairland 1	April 15, 2011	10:45	Encore	Plastic	2	ICE	Soil							x	
12	Fairland 2	April 15, 2011	10:45	Encore	Plastic	3	ICE	Soil							x	
13	Fairland 3	April 15, 2011	10:45	Encore	Plastic	3	ICE	Soil							x	
14	Fairland	April 15, 2011	10:45	9oz Jar	Glass	3	ICE	Soil				x	x	x		
15																
16																

Turnaround Time
7 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

T = 13.8 °C

1. Relinquished By Richy L Ricks CH2MHill	***Date:*** 4-15-11	***Time:*** 1600	***1. Received By:***	***Date:*** / ***Time:***
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:*** 4/16/11 ***Time:*** 0945

Comments
Sieve lead samples with #60 sieve: **Analyze bolded samples under an expedited 3 day turnaround time**

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 110182
☐ EMAX Courier		Recepient J-LUNA
☐ Client Delivery		Date 4-16-11
☑ Third Party FEDEX	796996594107	Time 0945

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	A ☑ Cooler 1 3.8 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/~~COC~~ ID	Discrepancy Code	Corrective Action Code
-10		1525	D3	R5, R2
11 - 13			H1	R5

REVIEWS

Sample ~~Labeling~~ _____ Date 4/16/11

SRF RW Date 4/18/11

PM LP for YO Date 4/18/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4	_____	E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	Inform client
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4	_____	G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	NOTE: NO JAR FOR MOISTURE		
C4	_____	H2	_____		

From: (916) 747-2986
Richy Ricks
CH2M HILL
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Origin ID: SMFA

FedEx Express

J11151102250225

Ship Date: 15APR11
ActWgt: 36.5 LB
CAD: 6300065/WBUS0200

Dims: 24 X 13 X 13 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889 BILL SENDER

Sample Recieving
E MAX Laboratories, Inc.
1835 W. 205th Street

Torrance, CA 90501

Ref # 413831.cv.01/AAA00006605
Invoice #
PO #
Dept #

11D182

SATURDAY ### A1
PRIORITY OVERNIGHT

TRK# 0201 7969 9659 4107

W0 AVXA

90501
CA-US
LAX

50DG3/26A8/7EFB

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

Ye Myint

From: John.Ynfante@CH2M.com
Sent: Wednesday, April 20, 2011 11:57 AM
To: Ye Myint
Subject: RE: Logins for Tar Creek

OK - the samples in the jar are a three-point composite and since they couldn't composite the Encores they submitted three plugs so you can proceed with analysis.

If you can't use on of the frozen encores for percent moisture then just use the percent moisture from one of the composite jars. thanks

John Ynfante
CH2M HILL
Ashton, V
14701 St. Mary's Lane, Suite 300
Houston, Texas 77079-2923
Direct: 281-721-8546
FAX: 281-721-8401
www.ch2mhill.com
John.Ynfante@ch2m.com

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Wednesday, April 20, 2011 1:14 PM
To: Ynfante, John/HOU
Subject: RE: Logins for Tar Creek

Okay.

Ye

310-618-8889 x121

Note: In observance of Memorial Day, EMAX will be closed on Monday, May 30, 2011.

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Wednesday, April 20, 2011 10:44 AM
To: Ye Myint
Subject: RE: Logins for Tar Creek
Importance: High

Ye, please hold off on those analyses. I was only expecting to see a single sample for all the various parameters so I'm surprised to see multiple sets of Encores and a different ID on the jars too. I'm wondering if that might be a sample ID error on the COC. I'm checking into it with the sampler and will get back with you shortly.

John Ynfante
CH2M HILL
Ashford V
14701 St. Mary's Lane, Suite 300
Houston, Texas 77079-2923
Direct: 281-771-8546
FAX: 281-721-8401
www.ch2mhill.com
John.Ynfante@ch2m.com

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Wednesday, April 20, 2011 12:18 PM
To: Ynfante, John/HOU
Subject: RE: Logins for Tar Creek

Hi John,

I missed to note in the e-mail below for a couple of things regarding the VOC samples in 11D182.

1) No extra jar was received to determine the percent moisture for the 3 samples. EnCores were frozen. If any extra Encore is left after the analyses are completed, we will use it for percent moisture.
2) No trip blank was received with the VOCs samples.

Please let me know if you have any questions. Thanks.

Ye

310-618-8889 x121

Note: In observance of Memorial Day, EMAX will be closed on Monday, May 30, 2011.

From: Ye Myint
Sent: Wednesday, April 20, 2011 9:36 AM
To: 'John.Ynfante@CH2M.com'
Subject: Logins for Tar Creek

Hi John,

Attached are the logins and COCs information for SDG: 11D182. Please review and let me know if there are any corrections necessary.

Thanks.

Ye Myint
Project Manager
EMAX Laboratories, Inc.
1835W 205th. St.
Torrance, CA 90501
Ph: 310-618-8889 x121

Fax: 310-618-0818
E-mail: ymyint@emaxlabs.com
Note: In observance of Memorial Day, EMAX will be closed on Monday, May 30, 2011.

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 11D182

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

SW 5035/8260B
VOLATILE ORGANICS BY GC/MS

A total of three (3) soil samples were received on 04/16/11 for Volatile Organics by GC/MS analysis, Method 5035/8260B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary form for details.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for VOF3D07L/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : T-OF3

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VOF3D07B	1	NA	04/21/1110:39	04/21/1110:39	RDR154	RDR100	VOF3D07	Method Blank
LCS1S	VOF3D07L	1	NA	04/21/1108:04	04/21/1108:04	RDR149	RDR100	VOF3D07	Lab Control Sample (LCS)
LCD1S	VOF3D07C	1	NA	04/21/1108:35	04/21/1108:35	RDR150	RDR100	VOF3D07	LCS Duplicate
MBLK2S	VPD010SB	1	NA	04/21/1115:25	04/21/1115:25	RDR163	RDR100	VOF3D07	Method Blank
FAIRLAND 1	D182-11	1.23	23.2	04/21/1116:40	04/21/1116:40	RDR165	RDR100	VOF3D07	Field Sample
FAIRLAND 2	D182-12	1	18.3	04/21/1117:10	04/21/1117:10	RDR166	RDR100	VOF3D07	Field Sample
FAIRLAND 3	D182-13	0.9	19.5	04/21/1117:40	04/21/1117:40	RDR167	RDR100	VOF3D07	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: CH2M HILL	Date Collected:	04/15/11
Project	: TAR CREEK OU4	Date Received:	04/16/11
Batch No.	: 11D182	Date Extracted:	04/21/11 16:40
Sample ID:	FAIRLAND 1	Date Analyzed:	04/21/11 16:40
Lab Samp ID:	D182-11	Dilution Factor:	1.23
Lab File ID:	RDR165	Matrix :	SOIL
Ext Btch ID:	VOF3D07	% Moisture :	23.2
Calib. Ref.:	RDR100	Instrument ID :	T-OF3

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	8.0	1.6
1,1,2,2-TETRACHLOROETHANE	ND	8.0	1.6
1,1,2-TRICHLOROETHANE	ND	8.0	1.6
1,1-DICHLOROETHANE	ND	8.0	1.6
1,1-DICHLOROETHENE	ND	8.0	1.6
1,2-DICHLOROETHANE	ND	8.0	1.6
1,2-DICHLOROPROPANE	ND	8.0	1.6
2-BUTANONE	ND	32	8.0
2-HEXANONE	ND	32	8.0
4-METHYL-2-PENTANONE	ND	32	8.0
ACETONE	ND	32	8.0
BENZENE	ND	8.0	1.6
BROMOCHLOROMETHANE	ND	8.0	1.6
BROMODICHLOROMETHANE	ND	8.0	1.6
BROMOFORM	ND	8.0	3.2
BROMOMETHANE	ND	8.0	3.2
CARBON DISULFIDE	ND	8.0	1.6
CARBON TETRACHLORIDE	ND	8.0	1.6
CHLOROBENZENE	ND	8.0	1.6
CHLOROETHANE	ND	8.0	3.2
CHLOROFORM	ND	8.0	1.6
CHLOROMETHANE	ND	8.0	3.2
CIS-1,2-DICHLOROETHENE	ND	8.0	1.6
CIS-1,3-DICHLOROPROPENE	ND	8.0	1.6
DIBROMOCHLOROMETHANE	ND	8.0	1.6
ETHYLBENZENE	ND	8.0	1.6
M/P-XYLENES	ND	16	3.2
MTBE	ND	8.0	1.6
METHYLENE CHLORIDE	ND	16	3.2
O-XYLENE	ND	8.0	1.6
STYRENE	ND	8.0	1.6
TETRACHLOROETHENE	ND	8.0	1.6
TOLUENE	ND	8.0	1.6
TRANS-1,2-DICHLOROETHENE	ND	8.0	1.6
TRANS-1,3-DICHLOROPROPENE	ND	8.0	1.6
TRICHLOROETHENE	ND	8.0	1.6
VINYL ACETATE	ND	8.0	3.2
VINYL CHLORIDE	ND	8.0	3.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	78.5	80.08	98.0	60-160
BROMOFLUOROBENZENE	88.5	80.08	111	70-150
TOLUENE-D8	84.9	80.08	106	70-140

Preservation Date: 04/21/11 11:13

SW 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL	Date Collected: 04/15/11
Project : TAR CREEK OU4	Date Received: 04/16/11
Batch No. : 11D182	Date Extracted: 04/21/11 17:10
Sample ID: FAIRLAND 2	Date Analyzed: 04/21/11 17:10
Lab Samp ID: D182-12	Dilution Factor: 1
Lab File ID: RDR166	Matrix : SOIL
Ext Btch ID: VOF3D07	% Moisture : 18.3
Calib. Ref.: RDR100	Instrument ID : T-OF3

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	6.1	1.2
1,1,2,2-TETRACHLOROETHANE	ND	6.1	1.2
1,1,2-TRICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHANE	ND	6.1	1.2
1,1-DICHLOROETHENE	ND	6.1	1.2
1,2-DICHLOROETHANE	ND	6.1	1.2
1,2-DICHLOROPROPANE	ND	6.1	1.2
2-BUTANONE	ND	24	6.1
2-HEXANONE	ND	24	6.1
4-METHYL-2-PENTANONE	ND	24	6.1
ACETONE	ND	24	6.1
BENZENE	ND	6.1	1.2
BROMOCHLOROMETHANE	ND	6.1	1.2
BROMODICHLOROMETHANE	ND	6.1	1.2
BROMOFORM	ND	6.1	2.4
BROMOMETHANE	ND	6.1	2.4
CARBON DISULFIDE	ND	6.1	1.2
CARBON TETRACHLORIDE	ND	6.1	1.2
CHLOROBENZENE	ND	6.1	1.2
CHLOROETHANE	ND	6.1	2.4
CHLOROFORM	ND	6.1	1.2
CHLOROMETHANE	ND	6.1	2.4
CIS-1,2-DICHLOROETHENE	ND	6.1	1.2
CIS-1,3-DICHLOROPROPENE	ND	6.1	1.2
DIBROMOCHLOROMETHANE	ND	6.1	1.2
ETHYLBENZENE	ND	6.1	1.2
M/P-XYLENES	ND	12	2.4
MTBE	ND	6.1	1.2
METHYLENE CHLORIDE	ND	12	2.4
O-XYLENE	ND	6.1	1.2
STYRENE	ND	6.1	1.2
TETRACHLOROETHENE	ND	6.1	1.2
TOLUENE	ND	6.1	1.2
TRANS-1,2-DICHLOROETHENE	ND	6.1	1.2
TRANS-1,3-DICHLOROPROPENE	ND	6.1	1.2
TRICHLOROETHENE	ND	6.1	1.2
VINYL ACETATE	ND	6.1	2.4
VINYL CHLORIDE	ND	6.1	2.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	63.7	61.20	104	60-160
BROMOFLUOROBENZENE	62.0	61.20	101	70-150
TOLUENE-D8	62.5	61.20	102	70-140

Preservation Date: 04/21/11 11:14

SW 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL	Date Collected: 04/15/11
Project : TAR CREEK OU4	Date Received: 04/16/11
Batch No. : 11D182	Date Extracted: 04/21/11 17:40
Sample ID: FAIRLAND 3	Date Analyzed: 04/21/11 17:40
Lab Samp ID: D182-13	Dilution Factor: 0.9
Lab File ID: RDR167	Matrix : SOIL
Ext Btch ID: VOF3D07	% Moisture : 19.5
Calib. Ref.: RDR100	Instrument ID : T-OF3

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.6	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.6	1.1
1,1,2-TRICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHENE	ND	5.6	1.1
1,2-DICHLOROETHANE	ND	5.6	1.1
1,2-DICHLOROPROPANE	ND	5.6	1.1
2-BUTANONE	ND	22	5.6
2-HEXANONE	ND	22	5.6
4-METHYL-2-PENTANONE	ND	22	5.6
ACETONE	ND	22	5.6
BENZENE	ND	5.6	1.1
BROMOCHLOROMETHANE	ND	5.6	1.1
BROMODICHLOROMETHANE	ND	5.6	1.1
BROMOFORM	ND	5.6	2.2
BROMOMETHANE	ND	5.6	2.2
CARBON DISULFIDE	ND	5.6	1.1
CARBON TETRACHLORIDE	ND	5.6	1.1
CHLOROBENZENE	ND	5.6	1.1
CHLOROETHANE	ND	5.6	2.2
CHLOROFORM	ND	5.6	1.1
CHLOROMETHANE	ND	5.6	2.2
CIS-1,2-DICHLOROETHENE	ND	5.6	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.6	1.1
DIBROMOCHLOROMETHANE	ND	5.6	1.1
ETHYLBENZENE	ND	5.6	1.1
M/P-XYLENES	ND	11	2.2
MTBE	ND	5.6	1.1
METHYLENE CHLORIDE	ND	11	2.2
O-XYLENE	ND	5.6	1.1
STYRENE	ND	5.6	1.1
TETRACHLOROETHENE	ND	5.6	1.1
TOLUENE	ND	5.6	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.6	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.6	1.1
TRICHLOROETHENE	ND	5.6	1.1
VINYL ACETATE	ND	5.6	2.2
VINYL CHLORIDE	ND	5.6	2.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	59.9	55.90	107	60-160
BROMOFLUOROBENZENE	60.5	55.90	108	70-150
TOLUENE-D8	58.0	55.90	104	70-140

Preservation Date: 04/21/11 11:16

QC SUMMARIES

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SW 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/21/11
Batch No.	: 11D182	Date Extracted:	04/21/11 10:39
Sample ID:	MBLK1S	Date Analyzed:	04/21/11 10:39
Lab Samp ID:	VOF3D07B	Dilution Factor:	1
Lab File ID:	RDR154	Matrix :	SOIL
Ext Btch ID:	VOF3D07	% Moisture :	NA
Calib. Ref.:	RDR100	Instrument ID :	T-OF3

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
2-BUTANONE	ND	20	5.0
2-HEXANONE	ND	20	5.0
4-METHYL-2-PENTANONE	ND	20	5.0
ACETONE	ND	20	5.0
BENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
ETHYLBENZENE	ND	5.0	1.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	1.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
VINYL ACETATE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	48.5	50.00	97.0	70-140
BROMOFLUOROBENZENE	49.2	50.00	98.3	70-130
TOLUENE-D8	49.0	50.00	98.0	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: SW 5035/8260B

MATRIX: SOIL
% MOISTURE: NA

DILUTION FACTOR:	1	1	1
SAMPLE ID:	MBLK1S		
LAB SAMP ID:	VOF3D07B	VOF3D07L	VOF3D07C
LAB FILE ID:	RDR154	RDR149	RDR150
DATE EXTRACTED:	04/21/1110:39	04/21/1108:04	04/21/1108:35
DATE ANALYZED:	04/21/1110:39	04/21/1108:04	04/21/1108:35
PREP. BATCH:	VOF3D07	VOF3D07	VOF3D07
CALIB. REF:	RDR100	RDR100	RDR100

DATE COLLECTED: NA
DATE RECEIVED: 04/21/11

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	50.0	52.5	105	50.0	52.6	105	0	60-130	50
1,1,2,2-Tetrachloroethane	ND	50.0	48.1	96	50.0	48.8	98	1	70-150	50
1,1,2-Trichloroethane	ND	50.0	49.2	98	50.0	49.8	100	1	70-140	50
1,1-Dichloroethane	ND	50.0	52.8	106	50.0	52.3	105	1	70-130	50
1,1-Dichloroethene	ND	50.0	53.3	107	50.0	50.3	101	6	60-130	50
1,2-Dichloroethane	ND	50.0	50.3	101	50.0	50.9	102	1	60-140	50
1,2-Dichloropropane	ND	50.0	51.7	103	50.0	51.3	103	1	70-130	50
2-Butanone	ND	250	237	95	250	240	96	1	50-160	50
2-Hexanone	ND	250	216	86	250	225	90	4	60-160	50
4-Methyl-2-Pentanone	ND	250	223	89	250	242	97	8	70-160	50
Acetone	ND	250	248	99	250	255	102	3	40-160	50
Benzene	ND	50.0	50.3	101	50.0	49.6	99	1	70-130	50
Bromochloromethane	ND	50.0	51.5	103	50.0	50.6	101	2	60-150	50
Bromodichloromethane	ND	50.0	51.0	102	50.0	51.6	103	1	60-130	50
Bromoform	ND	50.0	50.4	101	50.0	52.0	104	3	60-130	50
Bromomethane	ND	50.0	61.0	122	50.0	56.6	113	8	40-160	50
Carbon Disulfide	ND	50.0	54.0	108	50.0	50.9	102	6	50-130	50
Carbon Tetrachloride	ND	50.0	52.3	105	50.0	51.7	103	1	50-130	50
Chlorobenzene	ND	50.0	51.5	103	50.0	52.9	106	3	70-130	50
Chloroethane	ND	50.0	62.4	125	50.0	61.3	123	2	60-150	50
Chloroform	ND	50.0	51.5	103	50.0	49.9	100	3	70-130	50
Chloromethane	ND	50.0	56.2	112	50.0	53.0	106	6	50-150	50
cis-1,2-Dichloroethene	ND	50.0	50.7	101	50.0	49.5	99	2	70-130	50
cis-1,3-Dichloropropene	ND	50.0	52.1	104	50.0	52.9	106	1	60-130	50
Dibromochloromethane	ND	50.0	50.0	100	50.0	51.0	102	2	70-130	50
Ethylbenzene	ND	50.0	53.1	106	50.0	54.1	108	2	70-130	50
M/P-Xylenes	ND	100	107	107	100	105	105	2	70-140	50
MTBE	ND	50.0	49.1	98	50.0	50.5	101	3	60-150	50
Methylene Chloride	ND	50.0	53.7	107	50.0	51.6	103	4	70-130	50
o-Xylene	ND	50.0	52.7	105	50.0	50.7	101	4	70-130	50
Styrene	ND	50.0	54.4	109	50.0	52.6	105	3	60-140	50
Tetrachloroethene	ND	50.0	52.5	105	50.0	53.8	108	3	70-130	50
Toluene	ND	50.0	50.6	101	50.0	50.3	101	1	70-130	50
Trans-1,2-Dichloroethene	ND	50.0	53.1	106	50.0	52.7	105	1	70-130	50
Trans-1,3-Dichloropropene	ND	50.0	50.2	100	50.0	52.4	105	4	60-140	50
Trichloroethene	ND	50.0	51.4	103	50.0	51.0	102	1	70-130	50
Vinyl Acetate	ND	50.0	62.6	125	50.0	65.3	131	4	20-160	50
Vinyl Chloride	ND	50.0	52.2	104	50.0	55.5	111	6	60-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	48.6	97	50.0	48.4	97	70-140
Bromofluorobenzene	50.0	49.8	100	50.0	49.6	99	70-130
Toluene-d8	50.0	49.3	99	50.0	49.9	100	70-130

SW 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/21/11
Batch No.	: 11D182	Date Extracted:	04/21/11 15:25
Sample ID:	MBLK2S	Date Analyzed:	04/21/11 15:25
Lab Samp ID:	VPD010SB	Dilution Factor:	1
Lab File ID:	RDR163	Matrix :	SOIL
Ext Btch ID:	VOF3D07	% Moisture :	NA
Calib. Ref.:	RDR100	Instrument ID :	T-OF3

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
2-BUTANONE	ND	20	5.0
2-HEXANONE	ND	20	5.0
4-METHYL-2-PENTANONE	ND	20	5.0
ACETONE	ND	20	5.0
BENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
ETHYLBENZENE	ND	5.0	1.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	1.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
VINYL ACETATE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	51.6	50.00	103	70-140
BROMOFLUOROBENZENE	49.6	50.00	99.3	70-130
TOLUENE-D8	50.2	50.00	100	70-130

Preservation Date: 04/21/11 11:10

INITIAL CALIBRATION(S)

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RDR094
Instrument ID: TOF3
GC Column:RTX502.2ID:0.25mm (mm)

Contract: TAR CREEK OU4
SAS No.: SDG No.: 11D182
BFB Injection Date : 04/19/11
BFB Injection Time : 20:58
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.52
75	30.0 - 60.0% of mass 95	41.73
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.86
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.15
175	5.0 - 9.0% of mass 174	5.58(7.5)1
176	95.0 - 101.0% of mass 174	71.68(96.7)1
177	5.0 - 9.0% of mass 176	5.36(7.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD01	VOF3D201	RDR095	04/19/11	21:29
2	VSTD02	VOF3D202	RDR096	04/19/11	21:59
3	VSTD04	VOF3D203	RDR097	04/19/11	22:30
4	VSTD010	VOF3D204	RDR098	04/19/11	23:02
5	VSTD020	VOF3D205	RDR099	04/19/11	23:33
6	VSTD050	VOF3D206	RDR100	04/20/11	00:04
7	VSTD100	VOF3D207	RDR101	04/20/11	00:34
8	VSTD200	VOF3D208	RDR102	04/20/11	01:06
9	VSTD300	VOF3D209	RDR103	04/20/11	01:37
10	VSTD500	VOF3D2010	RDR104	04/20/11	02:08
11	VSTD050	IVOF3D201	RDR107	04/20/11	03:41

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :F3
Beginning DateTime :04/19/11 21:29
Spike Units :PPB
IC File :RDR100

Column Spec :RTX-502.2 ID :0.25MM
Ending DateTime :04/20/11 02:08
HPChem Method :VOF3D20

M	IDX	Parameters	1 21:29 RDR095	2 21:59 RDR096	4 22:30 RDR097	10 23:02 RDR098	20 23:33 RDR099	50 00:04 RDR100	100 00:34 RDR101	200 01:06 RDR102	300 01:37 RDR103	500 02:08 RDR104	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	14.6443
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	0.358	0.281	0.272	0.278	0.268	0.261	0.275	0.260	0.271	0.253	0.278	10.67	4.6155
	4	Chloromethane	0.544	0.506	0.536	0.573	0.530	0.513	0.530	0.505	0.507	0.475	0.522	5.14	5.1377
	5	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	6	Vinyl chloride	0.403	0.396	0.429	0.463	0.436	0.439	0.458	0.431	0.458	0.413	0.433	5.38	5.4531
	7	Bromomethane	0.253	0.249	0.276	0.320	0.285	0.278	0.251	------	------	------	0.273	9.29	6.3598
	8	Chloroethane	0.189	0.206	0.229	0.261	0.222	0.231	0.234	0.200	0.179	------	0.217	11.76	6.6089
	9	Dichlorofluoromethane	0.683	0.657	0.670	0.676	0.671	0.644	0.673	0.631	0.671	0.625	0.660	3.06	7.1119
	10	Trichlorofluoromethane	0.477	0.386	0.413	0.473	0.430	0.426	0.439	0.418	0.440	0.400	0.430	6.72	7.2027
5	11	Acrolein	------	0.050	0.047	0.044	0.043	0.040	0.042	0.039	0.039	0.035	0.042	10.91	8.2818
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.207	0.178	0.199	0.198	0.202	0.200	0.208	0.201	0.210	0.202	0.201	4.44	8.4033
	13	1,1-Dichloroethene	0.632	0.601	0.617	0.600	0.607	0.580	0.603	0.577	0.606	0.580	0.600	2.93	8.4792
5	14	Acetone	0.184	0.136	0.112	0.102	0.100	0.097	0.101	0.093	0.095	0.086	0.111	26.25	8.6324
10	15	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	0.597	0.580	0.603	0.601	0.603	0.582	0.622	0.582	0.622	0.588	0.598	2.60	8.9195
	17	Carbon disulfide	0.946	1.135	1.222	1.236	1.190	1.161	1.246	1.219	1.264	------	1.180	8.21	9.0603
	18	Methyl acetate	------	0.237	0.225	0.238	0.225	0.227	0.245	0.232	0.237	------	0.233	3.06	9.3330
	19	Methylene chloride	------	0.958	0.732	0.618	0.569	0.524	0.546	0.500	0.518	0.490	0.606	24.98	9.6687
5	20	tert-Butyl alcohol	------	0.031	0.030	0.028	0.030	0.029	0.032	0.029	0.030	0.026	0.030	5.63	9.8439
	21	tert-Butyl methyl ether (MTBE)	0.791	0.748	0.739	0.743	0.754	0.710	0.775	0.708	0.729	0.697	0.739	4.05	10.1395
	22	trans-1,2-Dichloroethene	0.587	0.574	0.569	0.578	0.571	0.551	0.569	0.530	0.542	0.513	0.558	4.23	10.2272
5	23	Acrylonitrile	0.143	0.132	0.122	0.119	0.120	0.118	0.121	0.115	0.118	0.104	0.121	8.40	10.2525
	24	Isopropyl ether (DIPE)	1.350	1.363	1.398	1.403	1.427	1.381	1.434	1.312	1.303	1.240	1.361	4.50	11.1868
	25	1,1-Dichloroethane	0.657	0.670	0.683	0.664	0.669	0.656	0.670	0.636	0.639	0.615	0.656	3.09	11.2374
	26	Vinyl acetate	0.508	0.539	0.526	0.587	0.518	0.603	0.621	0.567	0.616	0.475	0.556	9.04	11.2523
	27	tert-Butyl ethyl ether (ETBE)	1.002	1.014	1.026	1.030	1.068	1.034	1.094	1.006	1.032	0.986	1.029	3.08	12.0452
	28	2,2-Dichloropropane	------	------	0.281	0.258	0.260	0.240	0.232	0.209	0.196	------	0.239	12.40	12.5634
5	29	2-Butanone	0.200	0.183	0.169	0.164	0.171	0.165	0.170	0.155	0.156	0.136	0.167	10.16	12.6136
	30	cis-1,2-Dichloroethene	0.524	0.462	0.441	0.405	0.423	0.404	0.420	0.389	0.393	0.380	0.424	10.09	12.6076
5	31	2-Butanol	------	0.029	0.028	0.028	0.029	0.029	0.033	0.030	0.031	------	0.030	5.92	12.9389
	32	Bromochloromethane	0.378	0.407	0.400	0.391	0.391	0.372	0.387	0.346	0.352	0.317	0.374	7.46	13.1209
	33	Chloroform	0.621	0.634	0.606	0.606	0.619	0.582	0.606	0.563	0.568	0.547	0.595	4.78	13.2310
	34	Dibromofluoromethane	0.289	0.397	0.356	0.391	0.378	0.365	0.387	0.357	0.363	------	0.365	8.78	13.5285
	35	1,1,1-Trichloroethane	0.395	0.388	0.394	0.375	0.395	0.382	0.376	0.354	0.355	0.334	0.375	5.54	13.5285
	36	Cyclohexane	0.476	0.541	0.531	0.513	0.491	0.483	0.500	0.463	0.485	------	0.498	5.17	13.5913
	37	1,2-Dichloroethane-d4	0.279	0.378	0.329	0.371	0.352	0.336	0.355	0.328	0.331	------	0.340	8.58	14.0855
	38	tert-Amyl methyl ether (TAME)	0.176	0.171	0.171	0.167	0.172	0.163	0.174	0.161	0.166	0.157	0.168	3.72	14.1980
	39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	17.8176
	40	1,1-Dichloropropene	0.206	0.191	0.195	0.191	0.191	0.187	0.189	0.190	0.183	0.191	0.191	3.13	13.7948
	41	Carbon tetrachloride	0.446	0.439	0.435	0.430	0.434	0.425	0.427	0.420	0.406	0.414	0.428	2.80	13.7963
	42	Benzene	1.588	1.580	1.525	1.508	1.543	1.443	1.517	1.425	1.382	------	1.501	4.69	14.1384
	43	1,2-Dichloroethane	0.480	0.457	0.458	0.461	0.479	0.441	0.467	0.431	0.436	0.451	0.456	3.65	14.1980
	44	Trichloroethene	0.405	0.404	0.404	0.405	0.412	0.399	0.414	0.407	0.398	0.414	0.406	1.43	15.0281
	45	Methylcyclohexane	0.501	0.538	0.535	0.531	0.517	0.506	0.523	0.489	0.487	------	0.514	3.79	15.2278
	46	1,2-Dichloropropane	0.433	0.450	0.417	0.433	0.445	0.426	0.431	0.409	0.398	0.409	0.425	3.91	15.3435
20	47	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	7.82	15.4938
	48	Dibromomethane	0.249	0.260	0.258	0.253	0.261	0.249	0.255	0.241	0.242	0.245	0.251	2.92	15.5221
	49	Bromodichloromethane	0.554	0.526	0.512	0.530	0.548	0.521	0.552	0.502	0.493	0.506	0.524	4.11	15.6723
	50	2-Chloroethyl vinyl ether	------	------	0.024	0.026	0.029	0.034	0.046	0.054	0.065	------	0.040	39.24	15.9534

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	51	cis-1,3-Dichloropropene	0.653	0.609	0.612	0.613	0.644	0.613	0.639	0.593	0.596	0.589	0.616	3.60	16.1603
5	52	4-Methyl-2-pentanone	0.461	0.435	0.390	0.414	0.426	0.404	0.406	0.358	------	------	0.412	7.50	16.2659
	53	Toluene-d8	1.187	1.465	1.279	1.375	1.340	1.271	1.348	1.251	1.159	------	1.297	7.35	16.4295
	54	Toluene	1.662	1.512	1.548	1.506	1.528	1.466	1.482	1.359	1.281	------	1.483	7.39	16.4973
	55	Ethyl methacrylate	0.503	0.457	0.468	0.450	0.478	0.456	0.479	0.446	0.444	0.425	0.461	4.78	16.7182
	56	trans-1,3-Dichloropropene	0.574	0.523	0.519	0.505	0.533	0.500	0.526	0.483	0.478	0.471	0.511	6.01	16.7271
	57	1,1,2-Trichloroethane	0.316	0.312	0.304	0.310	0.312	0.303	0.312	0.290	0.294	0.298	0.305	2.88	16.9354
	58	Tetrachloroethene	0.336	0.302	0.282	0.283	0.291	0.289	0.286	0.285	0.290	0.294	0.294	5.40	17.0410
5	59	2-Hexanone	0.375	0.321	0.284	0.277	0.289	0.284	0.287	0.244	------	------	0.295	12.99	17.0898
	60	1,3-Dichloropropane	0.564	0.542	0.530	0.518	0.542	0.525	0.546	0.466	0.464	0.455	0.515	7.59	17.0916
	61	Dibromochloromethane	0.382	0.371	0.368	0.379	0.390	0.380	0.404	0.374	0.378	0.377	0.380	2.66	17.3371
	62	1,2-Dibromoethane	0.403	0.359	0.363	0.366	0.377	0.362	0.372	0.348	0.350	0.350	0.365	4.51	17.4561
	63	1-Chlorohexane	0.760	0.623	0.607	0.580	0.609	0.573	0.571	0.560	0.546	0.538	0.597	10.65	17.7269
	64	Chlorobenzene	1.034	0.964	0.955	0.943	0.968	0.927	0.964	0.899	0.897	0.798	0.935	6.62	17.8429
	65	1,1,1,2-Tetrachloroethane	0.332	0.328	0.321	0.331	0.346	0.332	0.357	0.329	0.332	0.338	0.335	3.05	17.9024
	66	Ethylbenzene	1.755	1.627	1.575	1.599	1.626	1.573	1.605	1.431	1.216	------	1.556	9.78	17.8875
2	67	m-Xylene & p-Xylene	1.357	1.189	1.211	1.180	1.212	1.136	1.156	0.912	------	------	1.169	10.58	17.9768
	68	o-Xylene	1.413	1.272	1.256	1.243	1.275	1.185	1.203	1.142	1.088	------	1.231	7.54	18.3288
	69	Styrene	1.200	1.060	1.072	1.066	1.114	1.039	1.081	1.009	0.975	0.810	1.043	9.73	18.3383
	70	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	20.1191
	71	Isopropylbenzene	4.312	3.934	3.877	3.739	3.819	3.746	3.619	3.493	3.096	------	3.737	8.88	18.6016
	72	Bromoform	0.522	0.497	0.505	0.505	0.562	0.560	0.587	0.580	0.594	0.558	0.547	6.69	18.6001
	73	4-Bromofluorobenzene	1.247	1.330	1.136	1.186	1.157	1.101	1.154	1.093	1.072	------	1.164	7.02	18.7933
	74	1,1,2,2-Tetrachloroethane	1.181	1.177	1.053	1.023	1.077	1.021	1.025	0.956	0.939	0.869	1.032	9.52	18.8843
	75	trans-1,4-Dichloro-2-butene	0.291	0.297	0.258	0.271	0.280	0.279	0.277	0.275	0.271	0.250	0.275	5.03	18.9141
	76	n-Propylbenzene	5.745	4.753	4.763	4.608	4.729	4.650	4.415	4.087	------	------	4.719	10.02	18.9289
	77	1,2,3-Trichloropropane	0.270	0.283	0.258	0.260	0.264	0.264	0.266	0.247	0.243	0.207	0.256	8.00	18.9438
	78	Bromobenzene	1.112	1.022	0.985	0.966	1.016	0.992	1.015	0.971	0.990	0.922	0.999	4.94	18.9587
	79	1,3,5-Trimethylbenzene	3.621	3.212	3.195	3.117	3.149	3.035	2.990	2.870	2.688	------	3.097	8.35	19.0479
	80	2-Chlorotoluene	3.357	3.020	3.007	2.982	3.000	2.838	2.815	2.718	2.639	------	2.931	7.19	19.0694
	81	4-Chlorotoluene	3.143	2.673	2.657	2.534	2.648	2.497	2.520	2.354	2.250	------	2.586	9.74	19.1521
	82	tert-Butylbenzene	0.763	0.688	0.665	0.656	0.665	0.647	0.667	0.638	0.650	0.621	0.666	5.81	19.3396
	83	1,2,4-Trimethylbenzene	3.521	3.159	3.121	3.012	3.047	2.967	2.905	2.682	2.661	------	3.008	8.63	19.3752
	84	sec-Butylbenzene	5.129	4.460	4.277	4.137	4.078	3.999	3.948	3.693	3.286	------	4.112	12.41	19.5091
	85	p-Isopropyltoluene	3.732	3.388	3.181	3.039	3.137	3.057	3.077	2.834	2.802	------	3.139	9.03	19.5984
	86	1,3-Dichlorobenzene	------	1.848	1.739	1.709	1.683	1.641	1.706	1.593	1.570	1.482	1.663	6.42	19.7025
	87	1,4-Dichlorobenzene	------	1.716	1.648	1.583	1.591	1.525	1.595	1.438	1.482	1.396	1.553	6.58	19.7769
	88	Benzyl Chloride	------	1.421	1.302	1.220	1.252	1.205	1.288	1.189	1.208	1.073	1.240	7.65	19.8761
	89	n-Butylbenzene	3.479	3.143	3.020	2.896	3.021	2.818	2.775	2.599	2.596	------	2.927	9.52	19.9439
	90	1,2-Dichlorobenzene	1.781	1.576	1.531	1.487	1.523	1.451	1.473	1.419	1.441	1.374	1.506	7.50	20.1340
	91	1,2-Dibromo-3-chloropropane	0.171	0.181	0.181	0.162	0.176	0.182	0.186	0.177	0.180	0.163	0.176	4.66	20.8779
	92	1,2,4-Trichlorobenzene	------	0.841	0.810	0.746	0.816	0.778	0.814	0.741	0.805	0.726	0.786	5.11	21.7143
	93	Hexachlorobutadiene	0.476	0.426	0.434	0.411	0.427	0.422	0.429	0.400	0.428	0.390	0.424	5.41	21.8003
	94	Naphthalene	------	2.512	2.186	1.959	2.080	1.960	2.061	1.900	2.037	1.718	2.046	10.68	22.0746
	95	1,2,3-Trichlorobenzene	------	0.777	0.744	0.721	0.751	0.726	0.754	0.686	0.736	0.666	0.729	4.74	22.3672

Spike Amount = Nominal Amount * M
Ave_%RSD : 7.4 Max_%RSD : 39.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

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IDX	Parameter	x0	x1	CCF
14	Acetone	0.01001	0.09111	0.9985
19	Methylene chloride	0.02005	0.50150	0.9995
50	2-Chloroethyl vinyl ether	-0.00579	0.05796	0.9856*

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
50	2-Chloroethyl vinyl ether	-0.00112	0.03260	0.00549	0.9996

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :F3
Beginning DateTime :04/19/11 21:29
Spike Units :PPB
IC File :RDR100

Column Spec :RTX-502.2 ID :0.25MM
Ending DateTime :04/20/11 02:08
HPChem Method :VOF3D20

M IDX	Parameters	1 21:29 RDR095	2 21:59 RDR096	4 22:30 RDR097	10 23:02 RDR098	20 23:33 RDR099	50 00:04 RDR100	100 00:34 RDR101	200 01:06 RDR102	300 01:37 RDR103	500 02:08 RDR104	AvDRec	%_RSD	Av_Rt_M
1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	14.6443
2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
3	Dichlorodifluoromethane	129	101	98	100	96	94	99	94	97	91	6.1	10.67	4.6155
4	Chloromethane	104	97	103	110	102	98	102	97	97	91	4	5.14	5.1377
5	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
6	Vinyl chloride	93	91	99	107	101	101	106	100	106	95	4.2	5.38	5.4531
7	Bromomethane	93	91	101	117	104	102	92	------	------	------	7	9.29	6.3598
8	Chloroethane	87	95	106	120	102	106	108	92	82	------	9.5	11.76	6.6089
9	Dichlorofluoromethane	103	100	102	102	102	98	102	96	102	95	2.5	3.06	7.1119
10	Trichlorofluoromethane	111	90	96	110	100	99	102	97	102	93	5	6.72	7.2027
11	Acrolein	------	119	112	105	102	95	100	93	93	83	8.2	10.91	8.2818
12	1,1,2-Trichloro-1,2,2-trifluoroethane	103	89	99	99	100	100	103	100	104	100	2.6	4.44	8.4033
13	1,1-Dichloroethene	105	100	103	100	101	97	100	96	101	97	2.1	2.93	8.4792
14	Acetone	92	94	95	101	104	104	110	102	104	94	5	5.9	8.6324
15	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
16	Iodomethane	100	97	101	101	101	97	104	97	104	98	2	2.60	8.9195
17	Carbon disulfide	80	96	104	105	101	98	106	103	107	------	5.6	8.21	9.0603
18	Methyl acetate	------	102	97	102	97	97	105	100	102	------	2.6	3.06	9.3330
19	Methylene chloride	------	91	96	103	104	101	107	99	103	97	3.9	4.8	9.6687
20	tert-Butyl alcohol	------	103	100	93	100	97	107	97	100	87	4.1	5.63	9.8439
21	tert-Butyl methyl ether (MTBE)	107	101	100	101	102	96	105	96	99	94	3.1	4.05	10.1395
22	trans-1,2-Dichloroethene	105	103	102	104	102	99	102	95	97	92	3.5	4.23	10.2272
23	Acrylonitrile	118	109	101	98	99	98	100	95	98	86	5.5	8.40	10.2525
24	Isopropyl ether (DIPE)	99	100	103	103	105	101	105	96	96	91	3.5	4.50	11.1868
25	1,1-Dichloroethane	100	102	104	101	102	100	102	97	97	94	2.4	3.09	11.2374
26	Vinyl acetate	91	97	95	106	93	108	112	102	111	85	7.7	9.04	11.2523
27	tert-Butyl ethyl ether (ETBE)	97	99	100	100	104	100	106	98	100	96	2.2	3.08	12.0452
28	2,2-Dichloropropane	------	------	118	108	109	100	97	87	82	------	9.7	12.40	12.5634
29	2-Butanone	120	110	101	98	102	99	102	93	93	81	7	10.16	12.6136
30	cis-1,2-Dichloroethene	124	109	104	96	100	95	99	92	93	90	7.3	10.09	12.6076
31	2-Butanol	------	97	93	93	97	97	110	100	103	------	4.6	5.92	12.9389
32	Bromochloromethane	101	109	107	105	105	99	103	93	94	85	5.9	7.46	13.1209
33	Chloroform	104	107	102	102	104	98	102	95	95	92	4.1	4.78	13.2310
34	Dibromofluoromethane	79	109	98	107	104	100	106	98	99	------	5.7	8.78	13.5285
35	1,1,1-Trichloroethane	105	103	105	100	105	102	100	94	95	89	4.3	5.54	13.5285
36	Cyclohexane	96	109	107	103	99	97	100	93	97	------	4.1	5.17	13.5913
37	1,2-Dichloroethane-d4	82	111	97	109	104	99	104	96	97	------	6.3	8.58	14.0855
38	tert-Amyl methyl ether (TAME)	105	102	102	99	102	97	104	96	99	93	3	3.72	14.1980
39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	17.8176
40	1,1-Dichloropropene	108	100	102	100	100	98	99	99	96	100	1.8	3.13	13.7948
41	Carbon tetrachloride	104	103	102	100	101	99	100	98	95	97	2.1	2.80	13.7963
42	Benzene	106	105	102	100	103	96	101	95	92	------	3.8	4.69	14.1384
43	1,2-Dichloroethane	105	100	100	101	105	97	102	95	96	99	2.9	3.65	14.1980
44	Trichloroethene	100	100	100	100	101	98	102	100	98	102	1.1	1.43	15.0281
45	Methylcyclohexane	97	105	104	103	101	98	102	95	95	------	3.2	3.79	15.2278
46	1,2-Dichloropropane	102	106	98	102	105	100	101	96	94	96	3.2	3.91	15.3435
47	1,4-Dioxane	100	100	100	100	100	100	100	100	100	100	0	7.82	15.4938
48	Dibromomethane	99	104	103	101	104	99	102	96	96	98	2.4	2.92	15.5221
49	Bromodichloromethane	106	100	98	101	105	99	105	96	94	97	3.4	4.11	15.6723
50	2-Chloroethyl vinyl ether	------	------	115	95	93	93	105	100	100	------	22.9	32.8	15.9534

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	51	cis-1,3-Dichloropropene	106	99	99	100	105	100	104	96	97	96	2.8	3.60	16.1603
5	52	4-Methyl-2-pentanone	112	106	95	100	103	98	99	87	------	------	5.4	7.50	16.2659
	53	Toluene-d8	92	113	99	106	103	98	104	96	89	------	5.8	7.35	16.4295
	54	Toluene	112	102	104	102	103	99	100	92	86	------	5.1	7.39	16.4973
	55	Ethyl methacrylate	109	99	102	98	104	99	104	97	96	92	3.7	4.78	16.7182
	56	trans-1,3-Dichloropropene	112	102	102	99	104	98	103	95	94	92	4.7	6.01	16.7271
	57	1,1,2-Trichloroethane	104	102	100	102	102	99	102	95	96	98	2.4	2.88	16.9354
	58	Tetrachloroethene	114	103	96	96	99	98	97	97	99	100	3.5	5.40	17.0410
5	59	2-Hexanone	127	109	96	94	98	96	97	83	------	------	8.9	12.99	17.0898
	60	1,3-Dichloropropane	110	105	103	101	105	102	106	90	90	88	6.3	7.59	17.0916
	61	Dibromochloromethane	101	98	97	100	103	100	106	98	99	99	1.8	2.66	17.3371
	62	1,2-Dibromoethane	110	98	99	100	103	99	102	95	96	96	3.2	4.51	17.4561
	63	1-Chlorohexane	127	104	102	97	102	96	96	94	91	90	7.1	10.65	17.7269
	64	Chlorobenzene	111	103	102	101	104	99	103	96	96	85	4.7	6.62	17.8429
	65	1,1,1,2-Tetrachloroethane	99	98	96	99	103	99	107	98	99	101	2.3	3.05	17.9024
	66	Ethylbenzene	113	105	101	103	104	101	103	92	78	------	6.7	9.78	17.8875
2	67	m-Xylene & p-Xylene	116	102	104	101	104	97	99	78	------	------	6.5	10.58	17.9768
	68	o-Xylene	115	103	102	101	104	96	98	93	88	------	5.5	7.54	18.3288
	69	Styrene	115	102	103	102	107	100	104	97	93	78	6.5	9.73	18.3383
	70	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	20.1191
	71	Isopropylbenzene	115	105	104	100	102	100	97	93	83	------	6	8.88	18.6016
	72	Bromoform	95	91	92	92	103	102	107	106	109	102	5.8	6.69	18.6001
	73	4-Bromofluorobenzene	107	114	98	102	99	95	99	94	92	------	5.2	7.02	18.7933
	74	1,1,2,2-Tetrachloroethane	114	114	102	99	104	99	99	93	91	84	7	9.52	18.8843
	75	trans-1,4-Dichloro-2-butene	106	108	94	99	102	101	101	100	99	91	3.6	5.03	18.9141
	76	n-Propylbenzene	122	101	101	98	100	99	94	87	------	------	5.9	10.02	18.9289
	77	1,2,3-Trichloropropane	105	111	101	102	103	103	104	96	95	81	5.6	8.00	18.9438
	78	Bromobenzene	111	102	99	97	102	99	102	97	99	92	3.4	4.94	18.9587
	79	1,3,5-Trimethylbenzene	117	104	103	101	102	98	97	93	87	------	5.8	8.35	19.0479
	80	2-Chlorotoluene	115	103	103	102	102	97	96	93	90	------	5.4	7.19	19.0694
	81	4-Chlorotoluene	122	103	103	98	102	97	97	91	87	------	6.7	9.74	19.1521
	82	tert-Butylbenzene	115	103	100	98	100	97	100	96	98	93	3.6	5.81	19.3396
	83	1,2,4-Trimethylbenzene	117	105	104	100	101	99	97	89	88	------	6	8.63	19.3752
	84	sec-Butylbenzene	125	108	104	101	99	97	96	90	80	------	8.4	12.41	19.5091
	85	p-Isopropyltoluene	119	108	101	97	100	97	98	90	89	------	6.3	9.03	19.5984
	86	1,3-Dichlorobenzene	------	111	105	103	101	99	103	96	94	89	4.9	6.42	19.7025
	87	1,4-Dichlorobenzene	------	110	106	102	102	98	103	93	95	90	5.3	6.58	19.7769
	88	Benzyl Chloride	------	115	105	98	101	97	104	96	97	87	5.4	7.65	19.8761
	89	n-Butylbenzene	119	107	103	99	103	96	95	89	89	------	7.2	9.52	19.9439
	90	1,2-Dichlorobenzene	118	105	102	99	101	96	98	94	96	91	5.2	7.50	20.1340
	91	1,2-Dibromo-3-chloropropane	97	103	103	92	100	103	106	101	102	93	3.6	4.66	20.8779
	92	1,2,4-Trichlorobenzene	------	107	103	95	104	99	104	94	102	92	4.4	5.11	21.7143
	93	Hexachlorobutadiene	112	100	102	97	101	100	101	94	101	92	3.5	5.41	21.8003
	94	Naphthalene	------	123	107	96	102	96	101	93	100	84	7.1	10.68	22.0746
	95	1,2,3-Trichlorobenzene	------	107	102	99	103	100	103	94	101	91	3.6	4.74	22.3672

Su
4/25/11

2015

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :F3
IC_Beginning DateTime :04/19/11 21:29
Spike Amount :50 PPB
CC/CV File :RDR107
IC File :RDR100

Column Spec :RTX-502.2 ID :0.25MM
IC_Ending DateTime :04/20/11 02:08
HPChem Method :VOF3D20
Date_Time :04/20/11 03:41

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	50.000	0	2167849	1	1	14.644	14.644	0				
	2	Chlorotrifluoroethylene												
	3	Dichlorodifluoromethane	49.139	-1.7	591489	0.273	0.278	4.616	4.615	10.67				
	4	Chloromethane	53.070	6.1	1200757	0.554	0.522	5.137	5.138	5.14				
	5	2-Chloro-1,1,1-trifluoroethane												
	6	Vinyl chloride	54.486	9.0	1021813	0.471	0.433	5.449	5.453	5.38				
	7	Bromomethane	54.984	10.0	651576	0.301	0.273	6.357	6.360	9.29				
	8	Chloroethane	57.428	14.9	539747	0.249	0.217	6.625	6.609	11.76				
	9	Dichlorofluoromethane	53.393	6.8	1527899	0.705	0.660	7.116	7.112	3.06				
	10	Trichlorofluoromethane	53.183	6.4	992388	0.458	0.430	7.205	7.203	6.72				
5	11	Acrolein	251.609	0.6	460638	0.042	0.042	8.276	8.282	10.91				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	51.517	3.0	447995	0.207	0.201	8.410	8.403	4.44				
	13	1,1-Dichloroethene	52.554	5.1	1367869	0.631	0.600	8.484	8.479	2.93				
5	14	Acetone	279.047	11.6	1124017	0.104	0.111	8.618	8.632	26.25	0.0100	0.0911		0.9985
10	15	Acetonitrile												
	16	Iodomethane	52.552	5.1	1362576	0.629	0.598	8.916	8.920	2.60				
	17	Carbon disulfide	54.255	8.5	2775723	1.280	1.180	9.065	9.060	8.21				
	18	Methyl acetate	51.802	3.6	524223	0.242	0.233	9.332	9.333	3.06				
	19	Methylene chloride	52.334	4.7	1181390	0.545	0.606	9.675	9.669	24.98	0.0201	0.5015		0.9995
5	20	tert-Butyl alcohol	265.246	6.1	341029	0.031	0.030	9.838	9.844	5.63				
	21	tert-Butyl methyl ether (MTBE)	49.667	-0.7	1592166	0.734	0.739	10.136	10.139	4.05				
	22	trans-1,2-Dichloroethene	50.500	1.0	1222822	0.564	0.558	10.225	10.227	4.23				
5	23	Acrylonitrile	256.808	2.7	1348492	0.124	0.121	10.255	10.252	8.40				
	24	Isopropyl ether (DIPE)	51.131	2.3	3017453	1.392	1.361	11.177	11.187	4.50				
	25	1,1-Dichloroethane	51.152	2.3	1454667	0.671	0.656	11.237	11.237	3.09				
	26	Vinyl acetate	51.629	3.3	1244786	0.574	0.556	11.252	11.252	9.04				
	27	tert-Butyl ethyl ether (ETBE)	51.825	3.7	2312430	1.067	1.029	12.040	12.045	3.08				
	28	2,2-Dichloropropane	51.019	2.0	529628	0.244	0.239	12.576	12.563	12.40				
5	29	2-Butanone	262.676	5.1	1901805	0.175	0.167	12.605	12.614	10.16				
	30	cis-1,2-Dichloroethene	49.078	-1.8	902368	0.416	0.424	12.605	12.608	10.09				
5	31	2-Butanol	263.224	5.3	339906	0.031	0.030	12.933	12.939	5.92				
	32	Bromochloromethane	50.588	1.2	820678	0.379	0.374	13.111	13.121	7.46				
	33	Chloroform	49.119	-1.8	1267389	0.585	0.595	13.230	13.231	4.78				
	34	Dibromofluoromethane	50.435	0.9	797493	0.368	0.365	13.528	13.528	8.78				
	35	1,1,1-Trichloroethane	52.221	4.4	848744	0.392	0.375	13.528	13.528	5.54				
	36	Cyclohexane	52.169	4.3	1126528	0.520	0.498	13.602	13.591	5.17				
	37	1,2-Dichloroethane-d4	49.529	-0.9	730080	0.337	0.340	14.078	14.085	8.58				
	38	tert-Amyl methyl ether (TAME)	50.559	1.1	367456	0.170	0.168	14.197	14.198	3.72				
	39	CHLOROBENZENE-D5	50.000	0	1893413	1	1	17.827	17.818	0				
	40	1,1-Dichloropropene	50.108	0.2	363167	0.192	0.191	13.796	13.795	3.13				
	41	Carbon tetrachloride	50.688	1.4	820761	0.433	0.428	13.796	13.796	2.80				
	42	Benzene	49.451	-1.1	2811384	1.485	1.501	14.138	14.138	4.69				
	43	1,2-Dichloroethane	49.847	-0.3	860982	0.455	0.456	14.197	14.198	3.65				
	44	Trichloroethene	50.611	1.2	778535	0.411	0.406	15.030	15.028	1.43				
	45	Methylcyclohexane	50.467	0.9	982579	0.519	0.514	15.239	15.228	3.79				
	46	1,2-Dichloropropane	50.787	1.6	817674	0.432	0.425	15.343	15.344	3.91				
20	47	1,4-Dioxane	1077.056	7.7	121102	0.003	0.003	15.492	15.494	7.82				
	48	Dibromomethane	49.457	-1.1	470507	0.248	0.251	15.521	15.522	2.92				
	49	Bromodichloromethane	50.599	1.2	1004757	0.531	0.524	15.670	15.672	4.11				
	50	2-Chloroethyl vinyl ether	52.916	5.8	74842	0.040	0.040	15.953	15.953	39.24	-0.0011	0.0326	0.0055	0.9996
	51	cis-1,3-Dichloropropene	50.682	1.4	1182624	0.625	0.616	16.161	16.160	3.60				
5	52	4-Methyl-2-pentanone	255.195	2.1	3977665	0.420	0.412	16.265	16.266	7.50				
	53	Toluene-d8	49.874	-0.3	2449874	1.294	1.297	16.429	16.430	7.35				
	54	Toluene	48.769	-2.5	2738270	1.446	1.483	16.503	16.497	7.39				
	55	Ethyl methacrylate	50.479	1.0	880616	0.465	0.461	16.712	16.718	4.78				
	56	trans-1,3-Dichloropropene	48.810	-2.4	944903	0.499	0.511	16.726	16.727	6.01				
	57	1,1,2-Trichloroethane	50.731	1.5	585904	0.309	0.305	16.935	16.935	2.88				
	58	Tetrachloroethene	48.545	-2.9	539955	0.285	0.294	17.039	17.041	5.40				
5	59	2-Hexanone	241.491	-3.4	2697870	0.285	0.295	17.083	17.090	12.99				
	60	1,3-Dichloropropane	50.263	0.5	980689	0.518	0.515	17.098	17.092	7.59				
	61	Dibromochloromethane	49.515	-1.0	713359	0.377	0.380	17.336	17.337	2.66				
	62	1,2-Dibromoethane	50.166	0.3	693418	0.366	0.365	17.455	17.456	4.51				
	63	1-Chlorohexane	48.183	-3.6	1088644	0.575	0.597	17.723	17.727	10.65				
	64	Chlorobenzene	50.306	0.6	1781324	0.941	0.935	17.842	17.843	6.62				
	65	1,1,1,2-Tetrachloroethane	50.068	0.1	634476	0.335	0.335	17.902	17.902	3.05				
	66	Ethylbenzene	51.482	3.0	3034269	1.603	1.556	17.887	17.888	9.78				
2	67	m-Xylene & p-Xylene	99.067	-0.9	4386136	1.158	1.169	17.976	17.977	10.58				
	68	o-Xylene	49.595	-0.8	2311283	1.221	1.231	18.333	18.329	7.54				
	69	Styrene	51.557	3.1	2035824	1.075	1.043	18.348	18.338	9.73				

SW 4/25/11

2018

70	1,2-DICHLOROBENZENE-D4	50.000	0	716577	1	1	20.118	20.119	0				
71	Isopropylbenzene	51.198	2.4	2742154	3.827	3.737	18.601	18.602	8.88				
72	Bromoform	53.779	7.6	421647	0.588	0.547	18.601	18.600	6.69				
73	4-Bromofluorobenzene	48.205	-3.6	804101	1.122	1.164	18.794	18.793	7.02				
74	1,1,2,2-Tetrachloroethane	51.964	3.9	768668	1.073	1.032	18.884	18.884	9.52				
75	trans-1,4-Dichloro-2-butene	52.532	5.1	207081	0.289	0.275	18.913	18.914	5.03				
76	n-Propylbenzene	49.213	-1.6	3328099	4.644	4.719	18.928	18.929	10.02				
77	1,2,3-Trichloropropane	51.738	3.5	190002	0.265	0.256	18.943	18.944	8.00				
78	Bromobenzene	49.713	-0.6	711765	0.993	0.999	18.958	18.959	4.94				
79	1,3,5-Trimethylbenzene	48.896	-2.2	2170448	3.029	3.097	19.047	19.048	8.35				
80	2-Chlorotoluene	48.695	-2.6	2045205	2.854	2.931	19.077	19.069	7.19				
81	4-Chlorotoluene	49.050	-1.9	1818055	2.537	2.586	19.151	19.152	9.74				
82	tert-Butylbenzene	50.556	1.1	482468	0.673	0.666	19.345	19.340	5.81				
83	1,2,4-Trimethylbenzene	49.411	-1.2	2130336	2.973	3.008	19.375	19.375	8.63				
84	sec-Butylbenzene	50.371	0.7	2968383	4.142	4.112	19.508	19.509	12.41				
85	p-Isopropyltoluene	48.719	-2.6	2191477	3.058	3.139	19.598	19.598	9.03				
86	1,3-Dichlorobenzene	49.159	-1.7	1171971	1.636	1.663	19.702	19.702	6.42				
87	1,4-Dichlorobenzene	49.639	-0.7	1104606	1.542	1.553	19.776	19.777	6.58				
88	Benzyl Chloride	44.419	-11.2	789240	1.101	1.240	19.880	19.876	7.65				
89	n-Butylbenzene	48.280	-3.4	2025609	2.827	2.927	19.955	19.944	9.52				
90	1,2-Dichlorobenzene	49.266	-1.5	1063131	1.484	1.506	20.133	20.134	7.50				
91	1,2-Dibromo-3-chloropropane	53.696	7.4	135350	0.189	0.176	20.877	20.878	4.66				
92	1,2,4-Trichlorobenzene	47.165	-5.7	531588	0.742	0.786	21.725	21.714	5.11				
93	Hexachlorobutadiene	49.916	-0.2	303374	0.423	0.424	21.799	21.800	5.41				
94	Naphthalene	49.394	-1.2	1448280	2.021	2.046	22.082	22.075	10.68				
95	1,2,3-Trichlorobenzene	49.621	-0.8	518383	0.723	0.729	22.380	22.367	4.74				

Spike Amount = Nominal Amount * M

SA
4/25/11

DAILY CALIBRATION(S)

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RDR147
Instrument ID: TOF3
GC Column:RTX502.2ID:0.25mm (mm)

Contract: TAR CREEK OU4
SAS No.: SDG No.: 11D182
BFB Injection Date : 04/21/11
BFB Injection Time : 06:52
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.09
75	30.0 - 60.0% of mass 95	44.84
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.87
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	65.99
175	5.0 - 9.0% of mass 174	4.64(7.0)1
176	95.0 - 101.0% of mass 174	63.35(96.0)1
177	5.0 - 9.0% of mass 176	4.67(7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CVOF3D2001	RDR148	04/21/11	07:25
2	MBLK1S	VOF3D07B	RDR154	04/21/11	10:39
3	LCS1S	VOF3D07L	RDR149	04/21/11	08:04
4	LCD1S	VOF3D07C	RDR150	04/21/11	08:35
5	MBLK2S	VPD010SB	RDR163	04/21/11	15:25
6	FAIRLAND 1	D182-11	RDR165	04/21/11	16:40
7	FAIRLAND 2	D182-12	RDR166	04/21/11	17:10
8	FAIRLAND 3	D182-13	RDR167	04/21/11	17:40

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDR100
Instrument ID: TOF3
GC Column: RTX502.2 ID: 0.25mm (mm)

Project: TAR CREEK OU4
SDG No.: 11D182
Date Analyzed: 04/20/11
Time Analyzed: 00:04
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2313069	14.64	2008412	17.81	770038	20.12
	UPPER LIMIT	4626138	15.14	4016824	18.31	1540076	20.62
	LOWER LIMIT	1156535	14.14	1004206	17.31	385019	19.62
	SAMPLE ID						
1	VSTD050	2204777	14.63	1961641	17.82	762471	20.11
2	MBLK1S	2251280	14.64	2023328	17.81	774454	20.10
3	LCS1S	2244169	14.64	1981974	17.81	763760	20.10
4	LCD1S	2452634	14.64	2121099	17.81	812425	20.10
5	MBLK2S	2704281	14.64	2410001	17.81	913298	20.12
6	FAIRLAND 1	2538850	14.64	2071467	17.81	688010	20.12
7	FAIRLAND 2	2636958	14.64	2209252	17.81	825139	20.12
8	FAIRLAND 3	2493135	14.64	2096136	17.83	707263	20.12

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\11D21\RDR148.D Vial: 2
Acq On : 21 Apr 2011 7:25 am Operator: CGM
Sample : CVOF3D2001 Inst : F3
Misc : 50ppb 8260/250ppb TBA-KET-AA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : C:\HPCHEM\1\METHODS\VOF3D20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Apr 21 15:11:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	95	0.00
2	T	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	0.00
3	T	Dichlorodifluoromethane	50.000	48.336	3.3	98	0.00
4	P,T	Chloromethane	50.000	46.904	6.2	91	0.00
5	T	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	0.00
6	C,T	Vinyl chloride	50.000	45.719	8.6	86	0.00
7	T	Bromomethane	50.000	50.466	-0.9	94	-0.02
8	T	Chloroethane	50.000	48.100	3.8	86	-0.02
9	T	Dichlorofluoromethane	50.000	49.119	1.8	96	0.00
10	T	Trichlorofluoromethane	50.000	49.430	1.1	95	0.00
11	T	Acrolein	250.000	238.352	4.7	95	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	50.000	52.943	-5.9	101	-0.02
13	C,T,M	1,1-Dichloroethene	50.000	49.123	1.8	97	-0.02
14	T	Acetone	250.000	243.368	2.7	89	0.00
15	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	50.397	-0.8	99	0.00
17	T	Carbon disulfide	50.000	49.121	1.8	95	-0.02
18	T	Methyl acetate	50.000	43.566	12.9	85	-0.02
19	T	Methylene chloride	50.000	50.576	-1.2	96	0.00
20	T	tert-Butyl alcohol	250.000	236.013	5.6	91	0.00
21	T	tert-Butyl methyl ether (MT	50.000	47.748	4.5	95	0.00
22	T	trans-1,2-Dichloroethene	50.000	50.786	-1.6	98	-0.02
23	T	Acrylonitrile	250.000	218.828	12.5	86	0.00
24	T	Isopropyl ether (DIPE)	50.000	50.648	-1.3	95	0.00
25	P,T	1,1-Dichloroethane	50.000	49.262	1.5	94	0.00
26	T	Vinyl acetate	50.000	56.891	-13.8	100	0.00
27	T	tert-Butyl ethyl ether (ETB	50.000	49.882	0.2	95	0.00
28	T	2,2-Dichloropropane	50.000	55.461	-10.9	106	0.00
29	T	2-Butanone	250.000	237.986	4.8	92	0.00
30	T	cis-1,2-Dichloroethene	50.000	48.982	2.0	98	0.00
31	T	2-Butanol	250.000	226.092	9.6	88	0.00
32	T	Bromochloromethane	50.000	51.460	-2.9	99	0.00
33	C,T	Chloroform	50.000	50.310	-0.6	98	0.00
34	S	Dibromofluoromethane	50.000	51.701	-3.4	99	0.00
35	T	1,1,1-Trichloroethane	50.000	55.991	-12.0	105	0.00
36	T	Cyclohexane	50.000	52.691	-5.4	104	0.00
37	S	1,2-Dichloroethane-d4	50.000	51.672	-3.3	100	0.00
38	T	tert-Amyl methyl ether (TAM	50.000	52.193	-4.4	103	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	98	0.00
40	T	1,1-Dichloropropene	50.000	51.307	-2.6	102	0.00

(#) = Out of Range

2023

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\11D21\RDR148.D Vial: 2
Acq On : 21 Apr 2011 7:25 am Operator: CGM
Sample : CVOF3D2001 Inst : F3
Misc : 50ppb 8260/250ppb TBA-KET-AA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : C:\HPCHEM\1\METHODS\VOF3D20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Apr 21 15:11:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	50.000	52.428	-4.9	103	0.00
42	T,M	Benzene	50.000	52.009	-4.0	106	0.00
43	T	1,2-Dichloroethane	50.000	52.450	-4.9	106	0.00
44	T,M	Trichloroethene	50.000	50.175	-0.3	100	0.00
45	T	Methylcyclohexane	50.000	52.056	-4.1	103	0.00
46	C,T	1,2-Dichloropropane	50.000	49.330	1.3	96	0.00
47	T	1,4-Dioxane	1000.000	977.839	2.2	93	0.00
48	T	Dibromomethane	50.000	48.994	2.0	97	0.00
49	T	Bromodichloromethane	50.000	49.623	0.8	98	0.00
50	T	2-Chloroethyl vinyl ether	50.000	62.111	-24.2#	137	0.00
51	T	cis-1,3-Dichloropropene	50.000	51.740	-3.5	102	0.00
52	T	4-Methyl-2-pentanone	250.000	227.828	8.9	91	0.00
53	S	Toluene-d8	50.000	48.391	3.2	96	0.00
54	C,T,M	Toluene	50.000	50.031	-0.1	99	0.00
55	T	Ethyl methacrylate	50.000	47.325	5.3	93	0.00
56	T	trans-1,3-Dichloropropene	50.000	49.759	0.5	99	0.00
57	T	1,1,2-Trichloroethane	50.000	48.022	4.0	95	0.00
58	T	Tetrachloroethene	50.000	52.265	-4.5	104	0.00
59	T	2-Hexanone	250.000	213.631	14.5	87	0.00
60	T	1,3-Dichloropropane	50.000	49.887	0.2	96	0.00
61	T	Dibromochloromethane	50.000	50.307	-0.6	98	0.00
62	T	1,2-Dibromoethane	50.000	48.026	3.9	95	0.00
63	T	1-Chlorohexane	50.000	53.583	-7.2	109	0.00
64	P,M	Chlorobenzene	50.000	51.852	-3.7	102	0.00
65	T	1,1,1,2-Tetrachloroethane	50.000	50.241	-0.5	99	0.00
66	C,T	Ethylbenzene	50.000	52.543	-5.1	102	0.00
67	T	m-Xylene & p-Xylene	100.000	105.455	-5.5	106	0.00
68	T	o-Xylene	50.000	50.071	-0.1	102	0.00
69	T	Styrene	50.000	51.349	-2.7	101	0.00
70	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	99	0.00
71	T	Isopropylbenzene	50.000	51.932	-3.9	103	0.00
72	P,T	Bromoform	50.000	49.802	0.4	96	0.00
73	S	4-Bromofluorobenzene	50.000	49.177	1.6	103	0.00
74	P,T	1,1,2,2-Tetrachloroethane	50.000	48.199	3.6	96	0.00
75	T	trans-1,4-Dichloro-2-butene	50.000	48.766	2.5	95	0.00
76	T	n-Propylbenzene	50.000	52.053	-4.1	105	0.00
77	T	1,2,3-Trichloropropane	50.000	47.748	4.5	92	0.00
78	T	Bromobenzene	50.000	50.294	-0.6	100	0.00
79	T	1,3,5-Trimethylbenzene	50.000	52.240	-4.5	106	0.00
80	T	2-Chlorotoluene	50.000	52.297	-4.6	107	0.00

(#) = Out of Range

2024

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\11D21\RDR148.D Vial: 2
Acq On : 21 Apr 2011 7:25 am Operator: CGM
Sample : CVOF3D2001 Inst : F3
Misc : 50ppb 8260/250ppb TBA-KET-AA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : C:\HPCHEM\1\METHODS\VOF3D20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Apr 21 15:11:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	50.000	52.553	-5.1	108	0.00
82	T	tert-Butylbenzene	50.000	50.412	-0.8	103	0.00
83	T	1,2,4-Trimethylbenzene	50.000	52.956	-5.9	106	0.00
84	T	sec-Butylbenzene	50.000	52.654	-5.3	107	0.00
85	T	p-Isopropyltoluene	50.000	53.310	-6.6	108	0.00
86	T	1,3-Dichlorobenzene	50.000	51.937	-3.9	104	0.00
87	T	1,4-Dichlorobenzene	50.000	55.823	-11.6	113	0.00
88	T	Benzyl Chloride	50.000	57.642	-15.3	117	0.00
89	T	n-Butylbenzene	50.000	58.265	-16.5	120	0.00
90	T	1,2-Dichlorobenzene	50.000	50.171	-0.3	103	0.00
91	T	1,2-Dibromo-3-chloropropane	50.000	46.281	7.4	89	0.00
92	T	1,2,4-Trichlorobenzene	50.000	56.476	-13.0	113	0.00
93	T	Hexachlorobutadiene	50.000	56.960	-13.9	113	0.00
94	T	Naphthalene	50.000	43.760	12.5	90	0.00
95	T	1,2,3-Trichlorobenzene	50.000	51.806	-3.6	103	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\11D21\RDR148.D Vial: 2
Acq On : 21 Apr 2011 7:25 am Operator: CGM
Sample : CVOF3D2001 Inst : F3
Misc : 50ppb 8260/250ppb TBA-KET-AA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : C:\HPCHEM\1\METHODS\VOF3D20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Apr 21 15:11:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	95	0.00
2	T	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	0.00
3	T	Dichlorodifluoromethane	0.278	0.268	3.6	98	0.00
4	P,T	Chloromethane	0.522	0.490	6.1	91	0.00
5	T	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	0.00
6	C,T	Vinyl chloride	0.433	0.395	8.8	86	0.00
7	T	Bromomethane	0.273	0.276	-1.1	94	-0.02
8	T	Chloroethane	0.217	0.209	3.7	86	-0.02
9	T	Dichlorofluoromethane	0.660	0.648	1.8	96	0.00
10	T	Trichlorofluoromethane	0.430	0.425	1.2	95	0.00
11	T	Acrolein	0.042	0.040	4.8	95	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.201	0.212	-5.5	101	-0.02
13	C,T,M	1,1-Dichloroethene	0.600	0.590	1.7	97	-0.02
14	T	Acetone	0.111	0.091	18.0	89	0.00
15	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.598	0.603	-0.8	99	0.00
17	T	Carbon disulfide	1.180	1.159	1.8	95	-0.02
18	T	Methyl acetate	0.233	0.203	12.9	85	-0.02
19	T	Methylene chloride	0.606	0.527	13.0	96	0.00
20	T	tert-Butyl alcohol	0.030	0.028	6.7	91	0.00
21	T	tert-Butyl methyl ether (MT	0.739	0.706	4.5	95	0.00
22	T	trans-1,2-Dichloroethene	0.558	0.567	-1.6	98	-0.02
23	T	Acrylonitrile	0.121	0.106	12.4	86	0.00
24	T	Isopropyl ether (DIPE)	1.361	1.379	-1.3	95	0.00
25	P,T	1,1-Dichloroethane	0.656	0.646	1.5	94	0.00
26	T	Vinyl acetate	0.556	0.633	-13.8	100	0.00
27	T	tert-Butyl ethyl ether (ETB	1.029	1.027	0.2	95	0.00
28	T	2,2-Dichloropropane	0.239	0.266	-11.3	106	0.00
29	T	2-Butanone	0.167	0.159	4.8	92	0.00
30	T	cis-1,2-Dichloroethene	0.424	0.415	2.1	98	0.00
31	T	2-Butanol	0.030	0.027	10.0	88	0.00
32	T	Bromochloromethane	0.374	0.385	-2.9	99	0.00
33	C,T	Chloroform	0.595	0.599	-0.7	98	0.00
34	S	Dibromofluoromethane	0.365	0.377	-3.3	99	0.00
35	T	1,1,1-Trichloroethane	0.375	0.420	-12.0	105	0.00
36	T	Cyclohexane	0.498	0.525	-5.4	104	0.00
37	S	1,2-Dichloroethane-d4	0.340	0.351	-3.2	100	0.00
38	T	tert-Amyl methyl ether (TAM	0.168	0.175	-4.2	103	0.00
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00
40	T	1,1-Dichloropropene	0.191	0.196	-2.6	102	0.00

(#) = Out of Range

2026

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\11D21\RDR148.D Vial: 2
Acq On : 21 Apr 2011 7:25 am Operator: CGM
Sample : CVOF3D2001 Inst : F3
Misc : 50ppb 8260/250ppb TBA-KET-AA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : C:\HPCHEM\1\METHODS\VOF3D20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Apr 21 15:11:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.428	0.448	-4.7	103	0.00
42	T,M	Benzene	1.501	1.562	-4.1	106	0.00
43	T	1,2-Dichloroethane	0.456	0.478	-4.8	106	0.00
44	T,M	Trichloroethene	0.406	0.408	-0.5	100	0.00
45	T	Methylcyclohexane	0.514	0.535	-4.1	103	0.00
46	C,T	1,2-Dichloropropane	0.425	0.419	1.4	96	0.00
47	T	1,4-Dioxane	0.003	0.003	0.0	93	0.00
48	T	Dibromomethane	0.251	0.246	2.0	97	0.00
49	T	Bromodichloromethane	0.524	0.520	0.8	98	0.00
50	T	2-Chloroethyl vinyl ether	0.040	0.048	-20.0	137	0.00
51	T	cis-1,3-Dichloropropene	0.616	0.638	-3.6	102	0.00
52	T	4-Methyl-2-pentanone	0.412	0.375	9.0	91	0.00
53	S	Toluene-d8	1.297	1.255	3.2	96	0.00
54	C,T,M	Toluene	1.483	1.484	-0.1	99	0.00
55	T	Ethyl methacrylate	0.461	0.436	5.4	93	0.00
56	T	trans-1,3-Dichloropropene	0.511	0.509	0.4	99	0.00
57	T	1,1,2-Trichloroethane	0.305	0.293	3.9	95	0.00
58	T	Tetrachloroethene	0.294	0.307	-4.4	104	0.00
59	T	2-Hexanone	0.295	0.252	14.6	87	0.00
60	T	1,3-Dichloropropane	0.515	0.514	0.2	96	0.00
61	T	Dibromochloromethane	0.380	0.383	-0.8	98	0.00
62	T	1,2-Dibromoethane	0.365	0.351	3.8	95	0.00
63	T	1-Chlorohexane	0.597	0.639	-7.0	109	0.00
64	P,M	Chlorobenzene	0.935	0.970	-3.7	102	0.00
65	T	1,1,1,2-Tetrachloroethane	0.335	0.336	-0.3	99	0.00
66	C,T	Ethylbenzene	1.556	1.636	-5.1	102	0.00
67	T	m-Xylene & p-Xylene	1.169	1.233	-5.5	106	0.00
68	T	o-Xylene	1.231	1.232	-0.1	102	0.00
69	T	Styrene	1.043	1.071	-2.7	101	0.00
70	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	99	0.00
71	T	Isopropylbenzene	3.737	3.882	-3.9	103	0.00
72	P,T	Bromoform	0.547	0.545	0.4	96	0.00
73	S	4-Bromofluorobenzene	1.164	1.145	1.6	103	0.00
74	P,T	1,1,2,2-Tetrachloroethane	1.032	0.995	3.6	96	0.00
75	T	trans-1,4-Dichloro-2-butene	0.275	0.268	2.5	95	0.00
76	T	n-Propylbenzene	4.719	4.912	-4.1	105	0.00
77	T	1,2,3-Trichloropropane	0.256	0.245	4.3	92	0.00
78	T	Bromobenzene	0.999	1.005	-0.6	100	0.00
79	T	1,3,5-Trimethylbenzene	3.097	3.236	-4.5	106	0.00
80	T	2-Chlorotoluene	2.931	3.065	-4.6	107	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\11D21\RDR148.D Vial: 2
Acq On : 21 Apr 2011 7:25 am Operator: CGM
Sample : CVOF3D2001 Inst : F3
Misc : 50ppb 8260/250ppb TBA-KET-AA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : C:\HPCHEM\1\METHODS\VOF3D20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Apr 21 15:11:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	2.586	2.718	-5.1	108	0.00
82	T	tert-Butylbenzene	0.666	0.671	-0.8	103	0.00
83	T	1,2,4-Trimethylbenzene	3.008	3.186	-5.9	106	0.00
84	T	sec-Butylbenzene	4.112	4.330	-5.3	107	0.00
85	T	p-Isopropyltoluene	3.139	3.346	-6.6	108	0.00
86	T	1,3-Dichlorobenzene	1.663	1.728	-3.9	104	0.00
87	T	1,4-Dichlorobenzene	1.553	1.734	-11.7	113	0.00
88	T	Benzyl Chloride	1.240	1.429	-15.2	117	0.00
89	T	n-Butylbenzene	2.927	3.411	-16.5	120	0.00
90	T	1,2-Dichlorobenzene	1.506	1.511	-0.3	103	0.00
91	T	1,2-Dibromo-3-chloropropane	0.176	0.163	7.4	89	0.00
92	T	1,2,4-Trichlorobenzene	0.786	0.888	-13.0	113	0.00
93	T	Hexachlorobutadiene	0.424	0.483	-13.9	113	0.00
94	T	Naphthalene	2.046	1.791	12.5	90	0.00
95	T	1,2,3-Trichlorobenzene	0.729	0.755	-3.6	103	0.00

ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 5 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 4/19/11 ☐ 5-ml Purge ☒ 25-ml Purge

Book # AF3 -001

BATCH VOF3D20 ~~VOF3D20~~ CGM 4/20/11

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01		RDR094	BFB F3D04 ✓	1µL	NA	NA	NA	NA	4/19/11 20:58
02		095	VOF3D201 ✓	.02/.02/.02/.02 .1/.1µL					SRC TBA/~~KET~~/AA 1 5 ppb
03		096	2 ✓	.04/.04/.04/.04 .2/.2µL					2 10
04		097	3 ✓	.08/.08/.08/.08 .4/.4µL					4 20
05		098	4 ✓	.2/.2/.2/.2 1/1µL					10 50
06		099	5 ✓	.4/.4/.4/.4 2/2µL					20 100
07		100	6 ✓	1/1/1/1 5/5µL					50 250
08		101	7 ✓	2/2/2/2 10/10µL					100 500
09		102	8 ✓	4/4/4/4 20/20µL					200 1000
10		103	9 ✓	6/6/6/6 30/30µL					300 1500
11		104	10 ✓	10/10/10/10 50/50µL					500 2500
12		105	IS/SS						
13		106	VOF3D04B						
14		107	1VOF3D201 ✓	1/1/1/1 5/5µL					50 250
15		108	RINSE						SRC TBA ~~KET~~/AA
16		109	LOQ 5/10 ✓	.1/.1/.1/.1 .2/.5µL					4/20/11 5 25 10 04:42
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									4/19/11
30									

Instrument No.	F3
INITIAL CALIBRATION REFERENCE	
DATE	4/19/11
ICAL ID	VOFBD20

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC 3 ~~Acet~~ 2-Bu OA	SV1-17-10-1 -11-1	*	250 1250
DCC Gas CS2	-27-3 -27-1		250 250
DCC Ket/AA SRC	-28-3 -22-3		250 50
BFB	SV1-16-98-1	1	50
IS/SURR.	SV1-17-23-2		250
ICV/LCS 3 ~~Acet~~ 2Bu OA	-10-2 SV1-12-400	*	250 1000
ICV/LCS Gas CS2	SV1-17-6-1 -15-2		250 250
ICV/LCS K/A SRC	-20-3 -9-1		250 50
SOLVENT IS	-29-3 ID	1	250
METHANOL SS	-30-1	*	250
DATA FILE	11D19		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TOF3	

Comments:

* Various amount.

Analyzed By: CGM

Date Disposed: 4/20/11

Disposed By: CGM

2030

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 5 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 4/21/11 ☑ 5-ml Purge ☐ 25-ml Purge

Book # AF3 -001

BATCH CVOF3D001

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RDR147	BFBF3D07						06:52
02	48	CVOF3D0001						
03	49	VOF3D07L		1.0				
04	50	↓ C						
05	51	VOF3D08L						
06	52	↓ C						
07	53 CGM	~~VOF3D07B~~ Rinse						
08	54 4/21/11	VOF3D08~~B~~7B	5.0g					
09	55	VOF3D08B	5.0mL					
10	56	LOD 1/4	.01/.02/.02/ .02/.08/.1 µL					
11	57	LOD 2/5	.01/.04/.04/ .04/.1/.2 µL					
12	58	LOQ 5/10	.1/.1/.1/.1/ .2/.5 µL					
13	59	STD001-5B	0.5mL	10	<5	✓		
14	60	11D081-01	↓	↓	6	✓		
15	61	Rinse						
16	62	VSD0075B	☆	☆				
17	63	VPD0105B						
18	64	VSD0085B						
19	65	11D182-11					✓	
20	66	-12					✓	
21	67	↓ -13	↓	↓			✓	17:40
22	68	Rinse						
23								
24								
25								
26								
27								
28								
29								
30								CGM 4/21/11

Instrument No.	F3
INITIAL CALIBRATION REFERENCE CGM 4/21/11	
DATE	4/~~20~~ 21/11
ICAL ID	VOF3D00

STANDARDS

NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1-17-10-2 -11-1	1 1	
DCC	-27-3 -27-1	1 1	
DCC	-28-3 -22-3	5 5	50/250
BFB	SV1-16-98-1	1	1000
IS/SURR.	SV1-17-23-2 -10-2	1 1	1250
ICV/LCS	SV1-12-400	1.25	
ICV/LCS	SV1-17-8-1 -15-2	1 1	
ICV/LCS	-20-3 -9-3	5 5	
SOLVENT	-29-3 ID	1	
METHANOL	↓ -30-1	*	
DATA FILE	11D21		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TOF3	

Comments:

* Refer to sample weight log.

Analyzed By: CGM

Date Disposed: 4/21/11

Disposed By: CGM

2831

EXTRACTION LOGS

EMAX LABORATORIES, INC.

PRESERVATION LOG FOR VOLATILES

VP11D010

PrepBatchID	Lab Sample ID	W1 (g)	DateTime	Wf (g)	DateTime	ExpWs(g)	Ws(g)	Prep Factor	Comments
VP11D01001	VPD010SB	31.99	4/21/11 11:09	36.99	4/21/11 11:10	5	5	1	
VP11D01002	VPD010SQ	32.08	4/21/11 11:10	37.08	4/21/11 11:10	5	5	1	
VP11D01003	11D182-11	32.16	4/21/11 11:11	36.24	4/21/11 11:13	5	4.08	1.23	
VP11D01004	11D182-12	32.2	4/21/11 11:13	37.19	4/21/11 11:14	5	4.99	1	
VP11D01005	11D182-13	32.06	4/21/11 11:15	37.63	4/21/11 11:16	5	5.57	0.9	
						CGM 4/21/11			

☑ EMAX-5035 Rev. 2 ☑ Balance Calibration Check performed prior to use

Surrogate ID:

Prepared By: RTORRALBA

☐ Encore+$NaHSO_4 \cdot H_2O$ ☑ BalanceID 25451062

BlankSoil Lot#: SW1A-04-146

Standard Added By: N/A

☑ Frozen Sample ☐ BalanceID 25650797

NaHSO4H2O:

Witnessed By: CGM

☐ Pre-weighed vial

Expected Ws(g): 5

Extract Rcvd By: CGM

☑ Volumetric dispenser was checked with 5-ml volumetric flask

Sample Location: VW05

W1=Weight of Vial + Stirrer+NaHSO4•H2O+Solvent Wf=W1 + Sample

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METHOD 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 11D182

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

SW 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

One (1) soil sample was received on 04/16/11 for Semi Volatile Organics by GCMS analysis, Method SW 3550B/8270C in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios as well as DDT breakdown were evaluated. Results were within acceptance criteria. Tailing factor for Benzidine and Pentachlorophenol were also verified and results were within the method limits. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for SVD025SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : T-OE4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	SVD025SB	1	NA	04/21/1116:17	04/21/1112:40	RDJ183	RDJ006	SVD025S	Method Blank
LCS1S	SVD025SL	1	NA	04/21/1116:36	04/21/1112:40	RDJ184	RDJ006	SVD025S	Lab Control Sample (LCS)
LCD1S	SVD025SC	1	NA	04/21/1116:54	04/21/1112:40	RDJ185	RDJ006	SVD025S	LCS Duplicate
FAIRLAND	D182-14	1	20.0	04/21/1117:32	04/21/1112:40	RDJ187	RDJ006	SVD025S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL	Date Collected: 04/15/11
Project : TAR CREEK OU4	Date Received: 04/16/11
Batch No. : 11D182	Date Extracted: 04/21/11 12:40
Sample ID: FAIRLAND	Date Analyzed: 04/21/11 17:32
Lab Samp ID: D182-14	Dilution Factor: 1
Lab File ID: RDJ187	Matrix : SOIL
Ext Btch ID: SVD025S	% Moisture : 20.0
Calib. Ref.: RDJ006	Instrument ID : T-OE4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,2,4-TRICHLOROBENZENE	ND	410	210
1,2-DICHLOROBENZENE	ND	410	210
1,3-DICHLOROBENZENE	ND	410	210
1,4-DICHLOROBENZENE	ND	410	210
2,4,5-TRICHLOROPHENOL	ND	410	210
2,4,6-TRICHLOROPHENOL	ND	790	210
2,4-DICHLOROPHENOL	ND	410	210
2,4-DIMETHYLPHENOL	ND	410	210
2,4-DINITROPHENOL	ND	820	210
2,4-DINITROTOLUENE	ND	410	210
2,6-DINITROTOLUENE	ND	410	210
2-CHLORONAPHTHALENE	ND	410	210
2-CHLOROPHENOL	ND	410	210
2-METHYLNAPHTHALENE	ND	410	210
2-METHYLPHENOL	ND	410	210
2-NITROANILINE	ND	820	210
2-NITROPHENOL	ND	410	210
3,3'-DICHLOROBENZIDINE	ND	820	210
3-NITROANILINE	ND	820	210
4,6-DINITRO-2-METHYLPHENOL	ND	820	210
4-BROMOPHENYL-PHENYL ETHER	ND	410	210
4-CHLORO-3-METHYLPHENOL	ND	410	210
4-CHLOROANILINE	ND	410	210
4-CHLOROPHENYL-PHENYL ETHER	ND	410	210
4-METHYLPHENOL (1)	ND	410	210
4-NITROANILINE	ND	410	210
4-NITROPHENOL	ND	820	210
ACENAPHTHENE	ND	410	210
ACENAPHTHYLENE	ND	410	210
ANTHRACENE	ND	410	210
BENZO(A)ANTHRACENE	ND	410	210
BENZO(A)PYRENE	ND	410	210
BENZO(B)FLUORANTHENE	ND	410	210
BENZO(K)FLUORANTHENE	ND	410	210
BENZO(G,H,I)PERYLENE	ND	410	210
BIS(2-CHLOROETHOXY)METHANE	ND	410	210
BIS(2-CHLOROETHYL)ETHER	ND	410	210
BIS(2-CHLOROISOPROPYL)ETHER	ND	410	210
BIS(2-ETHYLHEXYL)PHTHALATE	ND	410	210
BUTYLBENZYLPHTHALATE	ND	410	210
CHRYSENE	ND	410	210
DI-N-BUTYLPHTHALATE	ND	410	210
DI-N-OCTYLPHTHALATE	ND	410	210
DIBENZO(A,H)ANTHRACENE	ND	410	210
DIBENZOFURAN	ND	410	210
DIETHYLPHTHALATE	ND	410	210
DIMETHYLPHTHALATE	ND	410	210
FLUORANTHENE	ND	410	210
FLUORENE	ND	410	210
HEXACHLOROBENZENE	ND	410	210
HEXACHLOROBUTADIENE	ND	410	210
HEXACHLOROCYCLOPENTADIENE	ND	410	210
HEXACHLOROETHANE	ND	410	210
INDENO(1,2,3-CD)PYRENE	ND	410	210
ISOPHORONE	ND	410	210
N-NITROSO-DI-N-PROPYLAMINE	ND	410	210
N-NITROSODIPHENYLAMINE (2)	ND	410	210
NAPHTHALENE	ND	410	210
NITROBENZENE	ND	410	210
PENTACHLOROPHENOL	ND	820	210
PHENANTHRENE	ND	410	210
PHENOL	ND	410	210
PYRENE	ND	410	210

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	2080	2500	83.2	20-140
2-FLUOROBIPHENYL	429	833.4	51.5	30-130
2-FLUOROPHENOL	1450	6250	23.2	20-130
NITROBENZENE-D5	463	833.4	55.6	20-130
PHENOL-D5	1490	2500	59.5	20-130
TERPHENYL-D14	802	833.4	96.2	40-130

RL: Reporting Limit
(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

QC SUMMARIES

SW 3550B/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL	Date Collected: NA
Project : TAR CREEK OU4	Date Received: 04/21/11
Batch No. : 11D182	Date Extracted: 04/21/11 12:40
Sample ID: MBLK1S	Date Analyzed: 04/21/11 16:17
Lab Samp ID: SVD025SB	Dilution Factor: 1
Lab File ID: RDJ183	Matrix : SOIL
Ext Btch ID: SVD025S	% Moisture : NA
Calib. Ref.: RDJ006	Instrument ID : T-OE4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,2,4-TRICHLOROBENZENE	ND	330	170
1,2-DICHLOROBENZENE	ND	330	170
1,3-DICHLOROBENZENE	ND	330	170
1,4-DICHLOROBENZENE	ND	330	170
2,4,5-TRICHLOROPHENOL	ND	330	170
2,4,6-TRICHLOROPHENOL	ND	630	170
2,4-DICHLOROPHENOL	ND	330	170
2,4-DIMETHYLPHENOL	ND	330	170
2,4-DINITROPHENOL	ND	660	170
2,4-DINITROTOLUENE	ND	330	170
2,6-DINITROTOLUENE	ND	330	170
2-CHLORONAPHTHALENE	ND	330	170
2-CHLOROPHENOL	ND	330	170
2-METHYLNAPHTHALENE	ND	330	170
2-METHYLPHENOL	ND	330	170
2-NITROANILINE	ND	660	170
2-NITROPHENOL	ND	330	170
3,3'-DICHLOROBENZIDINE	ND	660	170
3-NITROANILINE	ND	660	170
4,6-DINITRO-2-METHYLPHENOL	ND	660	170
4-BROMOPHENYL-PHENYL ETHER	ND	330	170
4-CHLORO-3-METHYLPHENOL	ND	330	170
4-CHLOROANILINE	ND	330	170
4-CHLOROPHENYL-PHENYL ETHER	ND	330	170
4-METHYLPHENOL (1)	ND	330	170
4-NITROANILINE	ND	330	170
4-NITROPHENOL	ND	660	170
ACENAPHTHENE	ND	330	170
ACENAPHTHYLENE	ND	330	170
ANTHRACENE	ND	330	170
BENZO(A)ANTHRACENE	ND	330	170
BENZO(A)PYRENE	ND	330	170
BENZO(B)FLUORANTHENE	ND	330	170
BENZO(K)FLUORANTHENE	ND	330	170
BENZO(G,H,I)PERYLENE	ND	330	170
BIS(2-CHLOROETHOXY)METHANE	ND	330	170
BIS(2-CHLOROETHYL)ETHER	ND	330	170
BIS(2-CHLOROISOPROPYL)ETHER	ND	330	170
BIS(2-ETHYLHEXYL)PHTHALATE	ND	330	170
BUTYLBENZYLPHTHALATE	ND	330	170
CHRYSENE	ND	330	170
DI-N-BUTYLPHTHALATE	ND	330	170
DI-N-OCTYLPHTHALATE	ND	330	170
DIBENZO(A,H)ANTHRACENE	ND	330	170
DIBENZOFURAN	ND	330	170
DIETHYLPHTHALATE	ND	330	170
DIMETHYLPHTHALATE	ND	330	170
FLUORANTHENE	ND	330	170
FLUORENE	ND	330	170
HEXACHLOROBENZENE	ND	330	170
HEXACHLOROBUTADIENE	ND	330	170
HEXACHLOROCYCLOPENTADIENE	ND	330	170
HEXACHLOROETHANE	ND	330	170
INDENO(1,2,3-CD)PYRENE	ND	330	170
ISOPHORONE	ND	330	170
N-NITROSO-DI-N-PROPYLAMINE	ND	330	170
N-NITROSODIPHENYLAMINE (2)	ND	330	170
NAPHTHALENE	ND	330	170
NITROBENZENE	ND	330	170
PENTACHLOROPHENOL	ND	660	170
PHENANTHRENE	ND	330	170
PHENOL	ND	330	170
PYRENE	ND	330	170

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	1710	2000	85.7	40-130
2-FLUOROBIPHENYL	537	666.7	80.5	30-130
2-FLUOROPHENOL	1710	2000	85.5	30-130
NITROBENZENE-D5	582	666.7	87.3	30-130
PHENOL-D5	1680	2000	84.2	30-130
TERPHENYL-D14	635	666.7	95.2	40-130

RL: Reporting Limit
(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: SW 3550B/8270C

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	SVD025SB	SVD025SL	SVD025SC		
LAB FILE ID:	RDJ183	RDJ184	RDJ185		
DATE EXTRACTED:	04/21/1112:40	04/21/1112:40	04/21/1112:40	DATE COLLECTED:	NA
DATE ANALYZED:	04/21/1116:17	04/21/1116:36	04/21/1116:54	DATE RECEIVED:	04/21/11
PREP. BATCH:	SVD025S	SVD025S	SVD025S		
CALIB. REF:	RDJ006	RDJ006	RDJ006		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,2,4-Trichlorobenzene	ND	1330	1140	85	1330	1140	86	0	30-130	50
1,2-Dichlorobenzene	ND	1330	1080	81	1330	1110	83	2	40-130	50
1,3-Dichlorobenzene	ND	1330	1110	83	1330	1100	83	1	40-130	50
1,4-Dichlorobenzene	ND	1330	1080	81	1330	1120	84	3	30-130	50
2,4,5-Trichlorophenol	ND	1330	1120	84	1330	1130	85	1	50-130	50
2,4,6-Trichlorophenol	ND	1330	1130	85	1330	1160	87	3	50-130	50
2,4-Dichlorophenol	ND	1330	1150	86	1330	1150	86	0	50-130	50
2,4-Dimethylphenol	ND	1330	1220	92	1330	1230	92	0	40-130	50
2,4-Dinitrophenol	ND	1330	1100	82	1330	1070	80	3	40-130	50
2,4-Dinitrotoluene	ND	1330	1410	106	1330	1420	106	1	30-130	50
2,6-Dinitrotoluene	ND	1330	1300	97	1330	1350	101	4	60-130	50
2-Chloronaphthalene	ND	1330	1200	90	1330	1230	92	3	50-130	50
2-Chlorophenol	ND	1330	1100	83	1330	1120	84	2	30-130	50
2-Methylnaphthalene	ND	1330	1220	92	1330	1190	90	2	40-130	50
2-Methylphenol	ND	1330	1090	82	1330	1060	79	3	40-130	50
2-Nitroaniline	ND	1330	1350	102	1330	1320	99	2	50-130	50
2-Nitrophenol	ND	1330	1100	83	1330	1100	82	0	50-130	50
3,3'-Dichlorobenzidine	ND	1330	1200	90	1330	1260	95	5	60-130	50
3-Nitroaniline	ND	1330	1230	92	1330	1240	93	1	60-130	50
4,6-Dinitro-2-Methylphenol	ND	1330	1200	90	1330	1430	107	18	50-130	50
4-Bromophenyl-phenyl ether	ND	1330	1200	90	1330	1180	88	2	50-130	50
4-Chloro-3-Methylphenol	ND	1330	1260	95	1330	1220	92	3	30-130	50
4-Chloroaniline	ND	1330	1140	86	1330	1130	85	1	40-130	50
4-Chlorophenyl-phenyl ether	ND	1330	1180	89	1330	1190	89	0	50-130	50
4-Methylphenol	ND	1330	1160	87	1330	1160	87	0	40-130	50
4-Nitroaniline	ND	1330	1270	95	1330	1270	95	0	60-130	50
4-Nitrophenol	ND	1330	1250	94	1330	1300	97	4	20-130	50
Acenaphthene	ND	1330	1140	86	1330	1160	87	2	30-130	50
Acenaphthylene	ND	1330	1120	84	1330	1110	84	1	30-130	50
Anthracene	ND	1330	1200	90	1330	1220	91	1	30-130	50
Benzo(a)anthracene	ND	1330	1250	93	1330	1270	96	2	40-130	50
Benzo(a)pyrene	ND	1330	1190	90	1330	1200	90	0	40-130	50
Benzo(b)fluoranthene	ND	1330	1260	94	1330	1280	96	2	50-130	50
Benzo(k)fluoranthene	ND	1330	1320	99	1330	1320	99	1	40-130	50
Benzo(g,h,i)perylene	ND	1330	1220	91	1330	1230	92	1	40-140	50
bis(2-Chloroethoxy)methane	ND	1330	1130	84	1330	1100	82	3	40-130	50
bis(2-Chloroethyl)ether	ND	1330	1090	82	1330	1110	83	2	40-130	50
bis(2-Chloroisopropyl)ether	ND	1330	1270	95	1330	1280	96	0	40-130	50
bis(2-Ethylhexyl)phthalate	ND	1330	1150	86	1330	1190	89	3	50-130	50
Butylbenzylphthalate	ND	1330	1170	88	1330	1200	90	2	60-130	50
Chrysene	ND	1330	1240	93	1330	1270	95	2	40-130	50
Di-n-butylphthalate	ND	1330	1210	91	1330	1210	91	0	50-130	50
Di-n-octylphthalate	ND	1330	1160	87	1330	1170	88	0	50-130	50
Dibenzo(a,h)anthracene	ND	1330	1240	93	1330	1230	92	1	40-130	50
Dibenzofuran	ND	1330	1190	90	1330	1200	90	0	50-130	50
Diethylphthalate	ND	1330	1190	90	1330	1230	92	3	60-130	50
Dimethylphthalate	ND	1330	1210	90	1330	1210	91	0	60-130	50
Fluoranthene	ND	1330	1320	99	1330	1330	100	1	40-130	50
Fluorene	ND	1330	1210	91	1330	1180	89	2	30-130	50
Hexachlorobenzene	ND	1330	1370	102	1330	1350	101	1	30-130	50
Hexachlorobutadiene	ND	1330	1210	91	1330	1220	91	1	40-130	50
Hexachlorocyclopentadiene	ND	1330	951	71	1330	986	74	4	10-130	50
Hexachloroethane	ND	1330	1180	89	1330	1180	89	0	40-130	50
Indeno(1,2,3-cd)pyrene	ND	1330	1240	93	1330	1250	94	1	30-140	50
Isophorone	ND	1330	1370	102	1330	1310	98	4	50-130	50
n-Nitroso-di-n-propylamine	ND	1330	1290	97	1330	1210	91	6	30-130	50
n-Nitrosodiphenylamine	ND	1330	996	75	1330	1020	76	2	30-140	50
Naphthalene	ND	1330	1110	83	1330	1110	83	0	30-130	50
Nitrobenzene	ND	1330	1400	105	1330	1410	106	1	40-130	50
Pentachlorophenol	ND	1330	1140	85	1330	1130	84	1	20-130	50
Phenanthrene	ND	1330	1210	91	1330	1210	91	0	30-130	50
Phenol	ND	1330	1220	92	1330	1210	91	1	30-130	50
Pyrene	ND	1330	1220	91	1330	1250	93	2	30-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
2,4,6-Tribromophenol	2000	1920	96	2000	1920	96	40-140
2-Fluorobiphenyl	667	516	77	667	528	79	30-130
2-Fluorophenol	2000	1650	83	2000	1690	85	30-130
Nitrobenzene-d5	667	581	87	667	603	90	30-130
Phenol-d5	2000	1680	84	2000	1660	83	30-130
Terphenyl-d14	667	680	102	667	686	103	40-130

INITIAL CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ002
Instrument ID: TOE4

Project: TAR CREEK OU4
SDG No.: 11D182
DFTPP Injection Date: 04/01/11
DFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.69
68	Less than 2% of mass 69	0.25(0.7)1
69	Relative abundance of mass 198	35.43
70	Less than 2.0% of mass 69	0.00(0.0)1
127	40.0 - 60.0% of mass 198	57.34
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.64
275	10.0 - 30.0% of mass 198	23.11
365	Greater than 1.00% of mass 198	3.17
441	Present, but less than mass 443	13.90(76.7)3
442	Greater than 40.0% of mass 198	88.04
443	17.0 - 23.0% of mass 442	18.13(20.6)2

1-Value is % mass 69 2-Value is % mass 442
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD050	SVE4D011	RDJ003	04/01/11	09:22
2	SSTD040	SVE4D012	RDJ004	04/01/11	09:41
3	SSTD030	SVE4D013	RDJ005	04/01/11	09:59
4	SSTD025	SVE4D014	RDJ006	04/01/11	10:18
5	SSTD020	SVE4D015	RDJ007	04/01/11	10:36
6	SSTD010	SVE4D016	RDJ008	04/01/11	10:55
7	SSTD005	SVE4D017	RDJ009	04/01/11	11:14
8	SSTD025	ISVE4D011	RDJ015	04/01/11	13:46

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:ICAL
SDG No.: ICAL
Date Analyzed: 04/01/11
Time Analyzed: 10:18

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	154392	2.96	599727	4.17	296510	6.17
	UPPER LIMIT	308784	3.46	1199454	4.67	593020	6.67
	LOWER LIMIT	77196	2.46	299864	3.67	148255	5.67
	SAMPLE ID						
1	SVE4D017	156756	2.96	620628	4.17	319334	6.17
2	SVE4D016	153319	2.96	602201	4.17	305531	6.17
3	SVE4D015	156896	2.96	605557	4.16	307665	6.17
4	SVE4D013	149271	2.96	582182	4.17	293034	6.17
5	SVE4D012	147075	2.96	574642	4.17	290377	6.17
6	SVE4D011	148692	2.96	580671	4.17	293459	6.17
7	ISVE4D011	144277	2.96	570182	4.17	294653	6.17

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII SV-1 OLM02.0

JW 4-11-11

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:ICAL
SDG No.: ICAL
Date Analyzed: 04/01/11
Time Analyzed: 10:18

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	516104	7.91	467073	10.68	452203	12.07
	UPPER LIMIT	1032208	8.41	934146	11.18	904406	12.57
	LOWER LIMIT	258052	7.41	233537	10.18	226102	11.57
	SAMPLE ID						
1	SVE4D017	560033	7.90	473877	10.67	426766	12.06
2	SVE4D016	542124	7.91	457804	10.68	424656	12.07
3	SVE4D015	527431	7.91	456976	10.68	407858	12.07
4	SVE4D013	500322	7.91	428159	10.68	392633	12.07
5	SVE4D012	490231	7.91	418230	10.68	385351	12.07
6	SVE4D011	497047	7.91	417361	10.68	381614	12.07
7	ISVE4D011	513470	7.90	444793	10.68	410920	12.07

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII SV-2 OLM02.0

JCC 4-11-11

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :E4
Beginning DateTime :04/01/11 09:22
Spike Units :PPM
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :04/01/11 11:14
HPChem Method :SVE4D01

IDX	Parameters	5 11:14 RDJ009	10 10:55 RDJ008	20 10:36 RDJ007	25 10:18 RDJ006	30 09:59 RDJ005	40 09:41 RDJ004	50 09:22 RDJ003	Av RRF	% RSD	Av Rt M
1	1,4-Dichlorobenzene-d4	1	1	1	1	1	1	1	1	0	2.9566
2	N-nitrosodimethylamine	0.488	0.492	0.507	0.498	0.492	0.498	0.527	0.500	2.62	1.4428
3	Pyridine	0.965	0.930	0.938	0.961	0.939	0.960	1.016	0.958	3.00	1.4736
4	2-Fluorophenol	1.117	1.117	1.072	1.086	1.070	1.068	1.108	1.091	2.06	2.0334
5	Phenol-d5	1.292	1.278	1.237	1.257	1.238	1.253	1.270	1.261	1.64	2.6098
6	Phenol	1.274	1.270	1.251	1.237	1.234	1.255	1.278	1.257	1.40	2.6205
7	Aniline	1.640	1.557	1.518	1.533	1.543	1.539	1.596	1.561	2.73	2.6875
8	bis(2-chloroethyl)ether	1.068	1.004	0.966	0.948	0.949	0.945	0.972	0.979	4.51	2.7159
9	2-Chlorophenol	1.505	1.406	1.395	1.397	1.400	1.424	1.438	1.424	2.76	2.7816
10	1,3-Dichlorobenzene	1.679	1.660	1.583	1.596	1.580	1.586	1.620	1.615	2.47	2.9118
11	1,2-Dichlorobenzene-d4	1.000	1.003	0.975	1.006	0.977	0.987	1.005	0.993	1.35	3.0899
12	1,4-Dichlorobenzene	1.737	1.675	1.669	1.632	1.629	1.621	1.678	1.663	2.42	2.9715
13	Benzyl alcohol	0.780	0.747	0.747	0.740	0.754	0.740	0.752	0.751	1.79	3.0473
14	1,2-Dichlorobenzene	1.646	1.579	1.534	1.550	1.551	1.526	1.568	1.565	2.56	3.1022
15	2-Methylphenol	0.995	0.974	0.946	0.937	0.933	0.947	0.950	0.954	2.31	3.1230
16	bis(2-chloroisopropyl)ether	1.769	1.723	1.641	1.673	1.656	1.673	1.685	1.689	2.60	3.1635
17	4-Methylphenol	1.280	1.255	1.202	1.222	1.233	1.225	1.260	1.240	2.17	3.2590
18	N-Nitroso-di-n-propylamine	0.595	0.577	0.566	0.568	0.581	0.563	0.573	0.575	1.89	3.2828
19	Hexachloroethane	0.584	0.589	0.573	0.569	0.563	0.568	0.567	0.573	1.69	3.4087
20	Naphthalene-d8	1	1	1	1	1	1	1	1	0	4.1660
21	Nitrobenzene-d5	0.264	0.266	0.256	0.254	0.255	0.257	0.262	0.259	1.84	3.4386
22	Nitrobenzene	0.243	0.242	0.237	0.236	0.239	0.234	0.241	0.239	1.33	3.4570
23	Isophorone	0.476	0.455	0.450	0.449	0.456	0.458	0.461	0.458	1.99	3.6811
24	2-Nitrophenol	0.195	0.192	0.194	0.191	0.190	0.193	0.192	0.192	0.85	3.7647
25	2,4-Dimethylphenol	0.312	0.299	0.302	0.297	0.298	0.300	0.303	0.302	1.67	3.7827
26	Benzoic acid	0.190	0.197	0.218	0.218	0.232	0.228	0.234	0.217	7.87	3.8508
27	bis(2-Chloroethoxy)methane	0.318	0.315	0.315	0.313	0.311	0.312	0.313	0.314	0.77	3.8886
28	2,4-Dichlorophenol	0.302	0.288	0.291	0.291	0.292	0.292	0.298	0.293	1.67	4.0005
29	1,2,4-Trichlorobenzene	0.344	0.343	0.329	0.335	0.327	0.323	0.335	0.334	2.40	4.1016
30	3,4-Dimethylphenol	0.404	0.402	0.400	0.393	0.399	0.395	0.401	0.399	1.00	4.0964
31	Naphthalene	1.097	1.068	1.038	1.039	1.030	1.034	1.051	1.051	2.27	4.1888
32	4-Chloroaniline	0.459	0.453	0.451	0.439	0.440	0.447	0.444	0.447	1.63	4.2332
33	Hexachlorobutadiene	0.176	0.177	0.174	0.172	0.176	0.170	0.173	0.174	1.41	4.3168
34	Hydroquinone	0.278	0.273	0.290	0.287	0.294	0.290	0.286	0.285	2.61	4.5671
35	4-Chloro-3-methylphenol	0.254	0.253	0.258	0.255	0.259	0.257	0.262	0.257	1.17	4.7544
36	2-Methylnaphthalene	0.665	0.665	0.659	0.646	0.657	0.649	0.658	0.657	1.13	4.9490
37	1-Methylnaphthalene	0.692	0.688	0.665	0.665	0.671	0.667	0.678	0.675	1.62	5.0632
38	Acenaphthene-d10	1	1	1	1	1	1	1	1	0	6.1713
39	Hexachlorocyclopentadiene	0.386	0.361	0.398	0.414	0.408	0.400	0.399	0.395	4.40	5.1319
40	2,3,5-Trichlorophenol	0.404	0.416	0.416	0.414	0.433	0.424	0.412	0.417	2.18	5.1360
41	2,4,6-Trichlorophenol	0.387	0.426	0.406	0.406	0.408	0.404	0.409	0.407	2.81	5.2657
42	2,4,5-Trichlorophenol	0.450	0.424	0.440	0.440	0.435	0.441	0.442	0.439	1.80	5.3024
43	2,3,4-Trichlorophenol	0.387	0.381	0.383	0.389	0.379	0.386	0.377	0.383	1.12	5.3788
44	2-Fluorobiphenyl	1.526	1.479	1.449	1.475	1.462	1.442	1.452	1.469	1.94	5.3734
45	Biphenyl	1.838	1.748	1.749	1.762	1.732	1.710	1.737	1.754	2.32	5.4896
46	2-Chloronaphthalene	1.306	1.277	1.269	1.275	1.245	1.239	1.247	1.265	1.88	5.5114
47	2-Nitroaniline	0.277	0.274	0.272	0.277	0.274	0.272	0.272	0.274	0.82	5.6269
48	2,6-Dimethylnaphthalene	1.252	1.264	1.239	1.237	1.232	1.211	1.217	1.236	1.50	5.6746
49	1,4-Dinitrobenzene	0.180	0.188	0.186	0.191	0.189	0.188	0.186	0.187	1.97	5.7934
50	Dimethylphthalate	1.487	1.489	1.417	1.426	1.409	1.412	1.402	1.435	2.59	5.8552
51	1,3-Dinitrobenzene	0.206	0.212	0.210	0.205	0.211	0.204	0.208	0.208	1.48	5.8812
52	2,6-Dinitrotoluene	0.324	0.329	0.318	0.310	0.318	0.310	0.309	0.317	2.35	5.9215
53	1,2-Dinitrobenzene	0.128	0.131	0.137	0.129	0.134	0.128	0.127	0.130	2.72	5.9794
54	Acenaphthylene	2.174	2.161	2.139	2.127	2.108	2.093	2.101	2.129	1.44	6.0010
55	3-Nitroaniline	0.364	0.376	0.376	0.365	0.370	0.372	0.369	0.370	1.30	6.1154
56	Acenaphthene	1.444	1.413	1.350	1.362	1.331	1.337	1.329	1.367	3.29	6.2106
57	2,4-Dinitrophenol	0.145	0.161	0.175	0.180	0.180	0.185	0.187	0.173	8.84	6.2411
58	4-Nitrophenol	0.162	0.166	0.175	0.174	0.175	0.172	0.168	0.170	3.07	6.3098
59	2,4-Dinitrotoluene	0.413	0.413	0.411	0.405	0.397	0.396	0.399	0.405	1.92	6.4011
60	Dibenzofuran	1.889	1.811	1.765	1.753	1.743	1.715	1.739	1.774	3.31	6.4163
61	2,3,5,6-Tetrachlorophenol	0.260	0.272	0.264	0.266	0.269	0.274	0.267	0.267	1.82	6.5091
62	2,3,4,6-Tetrachlorophenol	0.327	0.351	0.335	0.327	0.332	0.327	0.336	0.334	2.50	6.5611
63	2,3,5-Trimethylnaphthalene	1.109	1.101	1.069	1.068	1.065	1.040	1.053	1.072	2.33	6.6698
64	Diethylphthalate	1.563	1.518	1.502	1.456	1.472	1.445	1.439	1.485	3.05	6.7072
65	Fluorene	1.487	1.456	1.401	1.378	1.392	1.382	1.379	1.411	3.07	6.8289
66	4-Chlorophenyl-phenylether	0.659	0.624	0.634	0.611	0.613	0.596	0.603	0.620	3.41	6.8357
67	4-Nitroaniline	0.345	0.356	0.360	0.359	0.354	0.359	0.358	0.356	1.47	6.8466
68	Phenanthrene-d10	1	1	1	1	1	1	1	1	0	7.9051
69	4,6-Dinitro-2-methylphenol	0.110	0.121	0.124	0.132	0.132	0.132	0.130	0.126	6.37	6.8873
70	N-Nitrosodiphenylamine	0.695	0.671	0.678	0.656	0.664	0.669	0.661	0.671	1.90	6.9748
71	Azobenzene	0.578	0.557	0.554	0.547	0.554	0.556	0.550	0.556	1.80	7.0235
72	2,4,6-Tribromophenol	0.119	0.114	0.115	0.116	0.116	0.112	0.115	0.115	1.82	7.1094
73	4-Bromophenyl-phenylether	0.216	0.202	0.217	0.202	0.209	0.210	0.205	0.209	2.97	7.4061
74	Hexachlorobenzene	0.259	0.230	0.236	0.237	0.237	0.232	0.236	0.238	4.03	7.4677
75	Pentachlorophenol	0.141	0.142	0.147	0.149	0.146	0.150	0.154	0.147	3.03	7.6882
76	Phenanthrene	1.246	1.208	1.189	1.152	1.169	1.170	1.157	1.184	2.79	7.9301
77	Dinoseb	0.142	0.170	0.185	0.191	0.186	0.195	0.197	0.181	10.64	7.9063
78	Anthracene	1.248	1.215	1.203	1.184	1.184	1.187	1.166	1.198	2.24	7.9860
79	Carbazole	1.092	1.088	1.098	1.093	1.091	1.078	1.075	1.088	0.77	8.1644
80	Di-n-butylphthalate	1.360	1.347	1.375	1.406	1.386	1.398	1.382	1.379	1.49	8.5581
81	1-Methylphenanthrene	0.876	0.834	0.846	0.824	0.826	0.829	0.814	0.835	2.41	8.6003
82	Fluoranthene	1.105	1.100	1.084	1.105	1.083	1.085	1.082	1.092	0.97	9.2064
83	Chrysene-d12	1	1	1	1	1	1	1	1	0	10.6795
84	Benzidine	------	------	------	------	------	------	------	0.000	0.00	0.0000
85	Pyrene	1.449	1.399	1.355	1.340	1.348	1.376	1.372	1.377	2.71	9.4430
86	Terphenyl-d14	0.752	0.750	0.728	0.719	0.737	0.733	0.735	0.736	1.57	9.6065
87	Butylbenzylphthalate	0.637	0.643	0.649	0.662	0.660	0.674	0.689	0.659	2.75	10.1113
88	bis(2-ethylhexyl)adipate	0.587	0.591	0.616	0.623	0.626	0.634	0.634	0.616	3.19	10.1907
89	3,3'-Dichlorobenzidine	0.421	0.402	0.418	0.449	0.428	0.430	0.439	0.427	3.57	10.6392
90	Benzo(a)anthracene	1.184	1.154	1.138	1.157	1.146	1.137	1.150	1.152	1.37	10.6663
91	Chrysene	1.139	1.129	1.105	1.104	1.094	1.071	1.097	1.106	2.04	10.7027
92	bis(2-Ethylhexyl)phthalate	0.955	0.963	0.982	1.023	0.980	1.016	1.017	0.991	2.81	10.6895
93	Perylene-d12	1	1	1	1	1	1	1	1	0	12.0696
94	Di-n-octylphthalate	1.633	1.641	1.752	1.712	1.757	1.779	1.840	1.730	4.31	11.3070
95	Benzo(b)fluoranthene	1.153	1.143	1.163	1.120	1.104	1.128	1.181	1.142	2.34	11.6866
96	Benzo(k)fluoranthene	1.433	1.416	1.478	1.429	1.446	1.450	1.445	1.442	1.36	11.7124
97	Benzo(e)pyrene	1.204	1.130	1.174	1.134	1.135	1.137	1.156	1.153	2.38	11.9558
98	Benzo(a)pyrene	1.075	1.115	1.140	1.089	1.092	1.109	1.129	1.107	2.08	12.0096
99	Perylene	1.276	1.178	1.218	1.159	1.162	1.160	1.196	1.193	3.58	12.0969
100	Indeno(1,2,3-cd)pyrene	1.237	1.205	1.252	1.242	1.232	1.244	1.283	1.242	1.88	13.3242
101	Dibenzo(a,h)anthracene	1.069	1.002	1.046	1.031	1.029	1.023	1.070	1.038	2.37	13.3422
102	Benzo(g,h,i)perylene	1.080	1.022	1.076	1.053	1.036	1.053	1.085	1.058	2.23	13.6979

Ave_%RSD : 2.5 Max_%RSD : 10.6

4-11-11

3012

Quantitation Limit from Lowest Initial Calibration Concentration

Instrument ID :E4
Beginning DateTime :04/01/11 09:22
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :04/01/11 11:14
HPChem Method :SVE4D01

WATER Init. Vol. (ml) : 1000 Final Vol. (ml) : 1
SOIL Init. Weight (gm) : 30 Final Vol. (ml) : 1

IDX	Parameters	ON COL MG/L	WATER UG/L	SOIL MG/KG	R FILE
1	1,4-Dichlorobenzene-d4	IntSTD	IntSTD	IntSTD	IntSTD
2	N-nitrosodimethylamine	5	5	.1667	RDJ009
3	Pyridine	5	5	.1667	RDJ009
4	2-Fluorophenol	5	5	.1667	RDJ009
5	Phenol-d5	5	5	.1667	RDJ009
6	Phenol	5	5	.1667	RDJ009
7	Aniline	5	5	.1667	RDJ009
8	bis(2-chloroethyl)ether	5	5	.1667	RDJ009
9	2-Chlorophenol	5	5	.1667	RDJ009
10	1,3-Dichlorobenzene	5	5	.1667	RDJ009
11	1,2-Dichlorobenzene-d4	5	5	.1667	RDJ009
12	1,4-Dichlorobenzene	5	5	.1667	RDJ009
13	Benzyl alcohol	5	5	.1667	RDJ009
14	1,2-Dichlorobenzene	5	5	.1667	RDJ009
15	2-Methylphenol	5	5	.1667	RDJ009
16	bis(2-chloroisopropyl)ether	5	5	.1667	RDJ009
17	4-Methylphenol	5	5	.1667	RDJ009
18	N-Nitroso-di-n-propylamine	5	5	.1667	RDJ009
19	Hexachloroethane	5	5	.1667	RDJ009
20	Naphthalene-d8	IntSTD	IntSTD	IntSTD	IntSTD
21	Nitrobenzene-d5	5	5	.1667	RDJ009
22	Nitrobenzene	5	5	.1667	RDJ009
23	Isophorone	5	5	.1667	RDJ009
24	2-Nitrophenol	5	5	.1667	RDJ009
25	2,4-Dimethylphenol	5	5	.1667	RDJ009
26	Benzoic acid	5	5	.1667	RDJ009
27	bis(2-Chloroethoxy)methane	5	5	.1667	RDJ009
28	2,4-Dichlorophenol	5	5	.1667	RDJ009
29	1,2,4-Trichlorobenzene	5	5	.1667	RDJ009
30	3,4-Dimethylphenol	5	5	.1667	RDJ009
31	Naphthalene	5	5	.1667	RDJ009
32	4-Chloroaniline	5	5	.1667	RDJ009
33	Hexachlorobutadiene	5	5	.1667	RDJ009
34	Hydroquinone	5	5	.1667	RDJ009
35	4-Chloro-3-methylphenol	5	5	.1667	RDJ009
36	2-Methylnaphthalene	5	5	.1667	RDJ009
37	1-Methylnaphthalene	5	5	.1667	RDJ009
38	Acenaphthene-d10	IntSTD	IntSTD	IntSTD	IntSTD
39	Hexachlorocyclopentadiene	5	5	.1667	RDJ009
40	2,3,5-Trichlorophenol	5	5	.1667	RDJ009
41	2,4,6-Trichlorophenol	5	5	.1667	RDJ009
42	2,4,5-Trichlorophenol	5	5	.1667	RDJ009
43	2,3,4-Trichlorophenol	5	5	.1667	RDJ009
44	2-Fluorobiphenyl	5	5	.1667	RDJ009
45	Biphenyl	5	5	.1667	RDJ009
46	2-Chloronaphthalene	5	5	.1667	RDJ009
47	2-Nitroaniline	5	5	.1667	RDJ009
48	2,6-Dimethylnaphthalene	5	5	.1667	RDJ009
49	1,4-Dinitrobenzene	5	5	.1667	RDJ009
50	Dimethylphthalate	5	5	.1667	RDJ009
51	1,3-Dinitrobenzene	5	5	.1667	RDJ009
52	2,6-Dinitrotoluene	5	5	.1667	RDJ009
53	1,2-Dinitrobenzene	5	5	.1667	RDJ009
54	Acenaphthylene	5	5	.1667	RDJ009
55	3-Nitroaniline	5	5	.1667	RDJ009
56	Acenaphthene	5	5	.1667	RDJ009
57	2,4-Dinitrophenol	5	5	.1667	RDJ009
58	4-Nitrophenol	5	5	.1667	RDJ009
59	2,4-Dinitrotoluene	5	5	.1667	RDJ009
60	Dibenzofuran	5	5	.1667	RDJ009
61	2,3,5,6-Tetrachlorophenol	5	5	.1667	RDJ009
62	2,3,4,6-Tetrachlorophenol	5	5	.1667	RDJ009
63	2,3,5-Trimethylnaphthalene	5	5	.1667	RDJ009
64	Diethylphthalate	5	5	.1667	RDJ009
65	Fluorene	5	5	.1667	RDJ009
66	4-Chlorophenyl-phenylether	5	5	.1667	RDJ009
67	4-Nitroaniline	5	5	.1667	RDJ009
68	Phenanthrene-d10	IntSTD	IntSTD	IntSTD	IntSTD
69	4,6-Dinitro-2-methylphenol	5	5	.1667	RDJ009
70	N-Nitrosodiphenylamine	5	5	.1667	RDJ009
71	Azobenzene	5	5	.1667	RDJ009
72	2,4,6-Tribromophenol	5	5	.1667	RDJ009
73	4-Bromophenyl-phenylether	5	5	.1667	RDJ009
74	Hexachlorobenzene	5	5	.1667	RDJ009
75	Pentachlorophenol	5	5	.1667	RDJ009
76	Phenanthrene	5	5	.1667	RDJ009
77	Dinoseb	5	5	.1667	RDJ009
78	Anthracene	5	5	.1667	RDJ009
79	Carbazole	5	5	.1667	RDJ009
80	Di-n-butylphthalate	5	5	.1667	RDJ009
81	1-Methylphenanthrene	5	5	.1667	RDJ009
82	Fluoranthene	5	5	.1667	RDJ009
83	Chrysene-d12	IntSTD	IntSTD	IntSTD	IntSTD
84	Benzidine	NA	NA	NA	NA
85	Pyrene	5	5	.1667	RDJ009
86	Terphenyl-d14	5	5	.1667	RDJ009
87	Butylbenzylphthalate	5	5	.1667	RDJ009
88	bis(2-ethylhexyl)adipate	5	5	.1667	RDJ009
89	3,3'-Dichlorobenzidine	5	5	.1667	RDJ009
90	Benzo(a)anthracene	5	5	.1667	RDJ009
91	Chrysene	5	5	.1667	RDJ009
92	bis(2-Ethylhexyl)phthalate	5	5	.1667	RDJ009
93	Perylene-d12	IntSTD	IntSTD	IntSTD	IntSTD
94	Di-n-octylphthalate	5	5	.1667	RDJ009
95	Benzo(b)fluoranthene	5	5	.1667	RDJ009
96	Benzo(k)fluoranthene	5	5	.1667	RDJ009
97	Benzo(e)pyrene	5	5	.1667	RDJ009
98	Benzo(a)pyrene	5	5	.1667	RDJ009
99	Perylene	5	5	.1667	RDJ009
100	Indeno(1,2,3-cd)pyrene	5	5	.1667	RDJ009
101	Dibenzo(a,h)anthracene	5	5	.1667	RDJ009
102	Benzo(g,h,i)perylene	5	5	.1667	RDJ009

mc 4-11-11

Quantitation Limit from Lowest Initial Calibration Concentration

Instrument ID :E4
Beginning DateTime :04/01/11 09:22
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :04/01/11 11:14
HPChem Method :SVE4D01

WATER Init. Vol. (ml) : 1000 Final Vol. (ml) : 2
SOIL Init. Weight (gm) : 30 Final Vol. (ml) : 2

IDX	Parameters	ON COL MG/L	WATER UG/L	SOIL MG/KG	R FILE
1	1,4-Dichlorobenzene-d4	IntSTD	IntSTD	IntSTD	IntSTD
2	N-nitrosodimethylamine	5	10	.3333	RDJ009
3	Pyridine	5	10	.3333	RDJ009
4	2-Fluorophenol	5	10	.3333	RDJ009
5	Phenol-d5	5	10	.3333	RDJ009
6	Phenol	5	10	.3333	RDJ009
7	Aniline	5	10	.3333	RDJ009
8	bis(2-chloroethyl)ether	5	10	.3333	RDJ009
9	2-Chlorophenol	5	10	.3333	RDJ009
10	1,3-Dichlorobenzene	5	10	.3333	RDJ009
11	1,2-Dichlorobenzene-d4	5	10	.3333	RDJ009
12	1,4-Dichlorobenzene	5	10	.3333	RDJ009
13	Benzyl alcohol	5	10	.3333	RDJ009
14	1,2-Dichlorobenzene	5	10	.3333	RDJ009
15	2-Methylphenol	5	10	.3333	RDJ009
16	bis(2-chloroisopropyl)ether	5	10	.3333	RDJ009
17	4-Methylphenol	5	10	.3333	RDJ009
18	N-Nitroso-di-n-propylamine	5	10	.3333	RDJ009
19	Hexachloroethane	5	10	.3333	RDJ009
20	Naphthalene-d8	IntSTD	IntSTD	IntSTD	IntSTD
21	Nitrobenzene-d5	5	10	.3333	RDJ009
22	Nitrobenzene	5	10	.3333	RDJ009
23	Isophorone	5	10	.3333	RDJ009
24	2-Nitrophenol	5	10	.3333	RDJ009
25	2,4-Dimethylphenol	5	10	.3333	RDJ009
26	Benzoic acid	5	10	.3333	RDJ009
27	bis(2-Chloroethoxy)methane	5	10	.3333	RDJ009
28	2,4-Dichlorophenol	5	10	.3333	RDJ009
29	1,2,4-Trichlorobenzene	5	10	.3333	RDJ009
30	3,4-Dimethylphenol	5	10	.3333	RDJ009
31	Naphthalene	5	10	.3333	RDJ009
32	4-Chloroaniline	5	10	.3333	RDJ009
33	Hexachlorobutadiene	5	10	.3333	RDJ009
34	Hydroquinone	5	10	.3333	RDJ009
35	4-Chloro-3-methylphenol	5	10	.3333	RDJ009
36	2-Methylnaphthalene	5	10	.3333	RDJ009
37	1-Methylnaphthalene	5	10	.3333	RDJ009
38	Acenaphthene-d10	IntSTD	IntSTD	IntSTD	IntSTD
39	Hexachlorocyclopentadiene	5	10	.3333	RDJ009
40	2,3,5-Trichlorophenol	5	10	.3333	RDJ009
41	2,4,6-Trichlorophenol	5	10	.3333	RDJ009
42	2,4,5-Trichlorophenol	5	10	.3333	RDJ009
43	2,3,4-Trichlorophenol	5	10	.3333	RDJ009
44	2-Fluorobiphenyl	5	10	.3333	RDJ009
45	Biphenyl	5	10	.3333	RDJ009
46	2-Chloronaphthalene	5	10	.3333	RDJ009
47	2-Nitroaniline	5	10	.3333	RDJ009
48	2,6-Dimethylnaphthalene	5	10	.3333	RDJ009
49	1,4-Dinitrobenzene	5	10	.3333	RDJ009
50	Dimethylphthalate	5	10	.3333	RDJ009
51	1,3-Dinitrobenzene	5	10	.3333	RDJ009
52	2,6-Dinitrotoluene	5	10	.3333	RDJ009
53	1,2-Dinitrobenzene	5	10	.3333	RDJ009
54	Acenaphthylene	5	10	.3333	RDJ009
55	3-Nitroaniline	5	10	.3333	RDJ009
56	Acenaphthene	5	10	.3333	RDJ009
57	2,4-Dinitrophenol	5	10	.3333	RDJ009
58	4-Nitrophenol	5	10	.3333	RDJ009
59	2,4-Dinitrotoluene	5	10	.3333	RDJ009
60	Dibenzofuran	5	10	.3333	RDJ009
61	2,3,5,6-Tetrachlorophenol	5	10	.3333	RDJ009
62	2,3,4,6-Tetrachlorophenol	5	10	.3333	RDJ009
63	2,3,5-Trimethylnaphthalene	5	10	.3333	RDJ009
64	Diethylphthalate	5	10	.3333	RDJ009
65	Fluorene	5	10	.3333	RDJ009
66	4-Chlorophenyl-phenylether	5	10	.3333	RDJ009
67	4-Nitroaniline	5	10	.3333	RDJ009
68	Phenanthrene-d10	IntSTD	IntSTD	IntSTD	IntSTD
69	4,6-Dinitro-2-methylphenol	5	10	.3333	RDJ009
70	N-Nitrosodiphenylamine	5	10	.3333	RDJ009
71	Azobenzene	5	10	.3333	RDJ009
72	2,4,6-Tribromophenol	5	10	.3333	RDJ009
73	4-Bromophenyl-phenylether	5	10	.3333	RDJ009
74	Hexachlorobenzene	5	10	.3333	RDJ009
75	Pentachlorophenol	5	10	.3333	RDJ009
76	Phenanthrene	5	10	.3333	RDJ009
77	Dinoseb	5	10	.3333	RDJ009
78	Anthracene	5	10	.3333	RDJ009
79	Carbazole	5	10	.3333	RDJ009
80	Di-n-butylphthalate	5	10	.3333	RDJ009
81	1-Methylphenanthrene	5	10	.3333	RDJ009
82	Fluoranthene	5	10	.3333	RDJ009
83	Chrysene-d12	IntSTD	IntSTD	IntSTD	IntSTD
84	Benzidine	NA	NA	NA	NA
85	Pyrene	5	10	.3333	RDJ009
86	Terphenyl-d14	5	10	.3333	RDJ009
87	Butylbenzylphthalate	5	10	.3333	RDJ009
88	bis(2-ethylhexyl)adipate	5	10	.3333	RDJ009
89	3,3'-Dichlorobenzidine	5	10	.3333	RDJ009
90	Benzo(a)anthracene	5	10	.3333	RDJ009
91	Chrysene	5	10	.3333	RDJ009
92	bis(2-Ethylhexyl)phthalate	5	10	.3333	RDJ009
93	Perylene-d12	IntSTD	IntSTD	IntSTD	IntSTD
94	Di-n-octylphthalate	5	10	.3333	RDJ009
95	Benzo(b)fluoranthene	5	10	.3333	RDJ009
96	Benzo(k)fluoranthene	5	10	.3333	RDJ009
97	Benzo(e)pyrene	5	10	.3333	RDJ009
98	Benzo(a)pyrene	5	10	.3333	RDJ009
99	Perylene	5	10	.3333	RDJ009
100	Indeno(1,2,3-cd)pyrene	5	10	.3333	RDJ009
101	Dibenzo(a,h)anthracene	5	10	.3333	RDJ009
102	Benzo(g,h,i)perylene	5	10	.3333	RDJ009

RW 4-11-11

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :E4
IC Beginning DateTime :04/01/11 09:22
Spike Amount :25 PPM
CC/CV File :RDJ015
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
IC Ending DateTime :04/01/11 11:14
HPChem Method :SVE4D01
Date_Time :04/01/11 13:46

M IDX	Parameters	CC Con	CC% D	CC Resp	CCRRF	AVRRF	CC Rtm	AVRtm	% RSD	Co X0	Co X1	Co X2	Co Cor
1	1,4-Dichlorobenzene-d4	40.000	0	144277	1	1	2.957	2.957	0				
2	N-nitrosodimethylamine	22.721	-9.1	41008	0.455	0.500	1.440	1.443	2.62				
3	Pyridine	24.240	-3.0	83791	0.929	0.958	1.474	1.474	3.00				
4	2-Fluorophenol												
5	Phenol-d5												
6	Phenol	24.031	-3.9	108953	1.208	1.257	2.619	2.621	1.40				
7	Aniline	20.661	-17.4	116314	1.290	1.561	2.685	2.688	2.73				
8	bis(2-chloroethyl)ether	21.892	-12.4	77292	0.857	0.979	2.714	2.716	4.51				
9	2-Chlorophenol	23.769	-4.9	122047	1.353	1.424	2.780	2.782	2.76				
10	1,3-Dichlorobenzene	24.331	-2.7	141714	1.572	1.615	2.912	2.912	2.47				
11	1,2-Dichlorobenzene-d4												
12	1,4-Dichlorobenzene	23.959	-4.2	143722	1.594	1.663	2.968	2.971	2.42				
13	Benzyl alcohol	23.130	-7.5	62689	0.695	0.751	3.046	3.047	1.79				
14	1,2-Dichlorobenzene	23.751	-5.0	134049	1.487	1.565	3.102	3.102	2.56				
15	2-Methylphenol	21.309	-14.8	73361	0.814	0.954	3.121	3.123	2.31				
16	bis(2-chloroisopropyl)ether	24.222	-3.1	147523	1.636	1.689	3.162	3.164	2.60				
17	4-Methylphenol	23.323	-6.7	104287	1.157	1.240	3.259	3.259	2.17				
18	N-Nitroso-di-n-propylamine	22.917	-8.3	47510	0.527	0.575	3.283	3.283	1.89				
19	Hexachloroethane	23.554	-5.8	48712	0.540	0.573	3.407	3.409	1.69				
20	Naphthalene-d8	40.000	0	570182	1	1	4.165	4.166	0				
21	Nitrobenzene-d5												
22	Nitrobenzene	28.159	12.6	95823	0.269	0.239	3.454	3.457	1.33				
23	Isophorone	27.173	8.7	177366	0.498	0.458	3.681	3.681	1.99				
24	2-Nitrophenol	24.920	-0.3	68271	0.192	0.192	3.763	3.765	0.85				
25	2,4-Dimethylphenol	23.684	-5.3	101801	0.286	0.305	3.782	3.783	1.67				
26	Benzoic acid	26.789	7.2	82695	0.232	0.217	3.852	3.851	7.87				
27	bis(2-Chloroethoxy)methane	23.788	-4.8	106392	0.299	0.314	3.886	3.889	0.77				
28	2,4-Dichlorophenol	23.941	-4.2	100107	0.281	0.293	4.001	4.001	1.67				
29	1,2,4-Trichlorobenzene	23.411	-6.4	111375	0.313	0.334	4.100	4.102	2.40				
30	3,4-Dimethylphenol	26.062	4.2	148270	0.416	0.399	4.095	4.096	1.00				
31	Naphthalene	23.967	-4.1	359013	1.007	1.051	4.190	4.189	2.27				
32	4-Chloroaniline	22.778	-8.9	145280	0.408	0.447	4.235	4.233	1.63				
33	Hexachlorobutadiene	24.831	-0.7	61605	0.173	0.174	4.317	4.317	1.41				
34	Hydroquinone												
35	4-Chloro-3-methylphenol	24.291	-2.8	88937	0.250	0.257	4.752	4.754	1.17				
36	2-Methylnaphthalene	26.501	6.0	248275	0.697	0.657	4.947	4.949	1.13				
37	1-Methylnaphthalene	23.535	-5.9	226555	0.636	0.675	5.061	5.063	1.62				
38	Acenaphthene-d10	40.000	0	294653	1	1	6.170	6.171	0				
39	Hexachlorocyclopentadiene	21.170	-15.3	61655	0.335	0.395	5.132	5.132	4.40				
40	2,3,5-Trichlorophenol	24.951	-0.2	76638	0.416	0.417	5.137	5.136	2.18				
41	2,4,6-Trichlorophenol	23.994	-4.0	71886	0.390	0.407	5.263	5.266	2.81				
42	2,4,5-Trichlorophenol	23.159	-7.4	74854	0.406	0.439	5.301	5.302	1.80				
43	2,3,4-Trichlorophenol	25.588	2.4	72206	0.392	0.383	5.378	5.379	1.12				
44	2-Fluorobiphenyl												
45	Biphenyl	25.144	0.6	324814	1.764	1.754	5.492	5.490	2.32				
46	2-Chloronaphthalene	23.726	-5.1	221163	1.201	1.265	5.509	5.511	1.88				
47	2-Nitroaniline	24.015	-3.9	48483	0.263	0.274	5.627	5.627	0.82				
48	2,6-Dimethylnaphthalene	25.350	1.4	230813	1.253	1.236	5.675	5.675	1.50				
49	1,4-Dinitrobenzene												
50	Dimethylphthalate	24.326	-2.7	257083	1.396	1.435	5.854	5.855	2.59				
51	1,3-Dinitrobenzene	26.581	6.3	40743	0.221	0.208	5.881	5.881	1.48				
52	2,6-Dinitrotoluene	27.804	11.2	64881	0.352	0.317	5.922	5.922	2.35				
53	1,2-Dinitrobenzene												
54	Acenaphthylene	23.450	-6.2	367758	1.997	2.129	6.001	6.001	1.44				
55	3-Nitroaniline	24.026	-3.9	65559	0.356	0.370	6.115	6.115	1.30				
56	Acenaphthene	22.991	-8.0	231434	1.257	1.367	6.207	6.211	3.29				
57	2,4-Dinitrophenol	25.000	-0.0	31903	0.173	0.173	6.238	6.241	8.84				
58	4-Nitrophenol	24.000	-4.0	30084	0.163	0.170	6.311	6.310	3.07				
59	2,4-Dinitrotoluene	28.352	13.4	84543	0.459	0.405	6.400	6.401	1.92				
60	Dibenzofuran	23.559	-5.8	307800	1.671	1.774	6.414	6.416	3.31				
61	2,3,5,6-Tetrachlorophenol												
62	2,3,4,6-Tetrachlorophenol	23.585	-5.7	57954	0.315	0.334	6.561	6.561	2.50				
63	2,3,5-Trimethylnaphthalene	26.375	5.5	208265	1.131	1.072	6.670	6.670	2.33				
64	Diethylphthalate	24.238	-3.0	265105	1.440	1.485	6.708	6.707	3.05				
65	Fluorene	23.385	-6.5	243002	1.320	1.411	6.827	6.829	3.07				
66	4-Chlorophenyl-phenylether	23.840	-4.6	108867	0.591	0.620	6.836	6.836	3.41				
67	4-Nitroaniline	24.128	-3.5	63258	0.343	0.356	6.846	6.847	1.47				
68	Phenanthrene-d10	40.000	0	513470	1	1	7.905	7.905	0				
69	4,6-Dinitro-2-methylphenol	23.369	-6.5	37751	0.118	0.126	6.889	6.887	6.37				
70	N-Nitrosodiphenylamine	21.216	-15.1	182633	0.569	0.671	6.974	6.975	1.90				
71	Azobenzene	24.615	-1.5	175844	0.548	0.556	7.024	7.023	1.80				
72	2,4,6-Tribromophenol												
73	4-Bromophenyl-phenylether	23.380	-6.5	62675	0.195	0.209	7.404	7.406	2.97				
74	Hexachlorobenzene	23.732	-5.1	72624	0.226	0.238	7.466	7.468	4.03				
75	Pentachlorophenol	23.719	-5.1	44798	0.140	0.147	7.691	7.688	3.03				
76	Phenanthrene	23.185	-7.3	352470	1.098	1.184	7.930	7.930	2.79				
77	Dinoseb	25.673	2.7	59576	0.186	0.181	7.905	7.906	10.64				
78	Anthracene	22.791	-8.8	350575	1.092	1.198	7.988	7.986	2.24				
79	Carbazole	23.217	-7.1	324210	1.010	1.088	8.167	8.164	0.77				
80	Di-n-butylphthalate	23.797	-4.8	421321	1.313	1.379	8.558	8.558	1.49				
81	1-Methylphenanthrene	25.112	0.4	269315	0.839	0.835	8.600	8.600	2.41				
82	Fluoranthene	23.640	-5.4	331371	1.033	1.092	9.206	9.206	0.97				
83	Chrysene-d12	40.000	0	444793	1	1	10.678	10.679	0				
84	Benzidine												
85	Pyrene	22.907	-8.4	350763	1.262	1.377	9.442	9.443	2.71				
86	Terphenyl-d14												
87	Butylbenzylphthalate	23.072	-7.7	169131	0.608	0.659	10.112	10.111	2.75				
88	bis(2-ethylhexyl)adipate	23.203	-7.2	158906	0.572	0.616	10.189	10.191	3.19				
89	3,3'-Dichlorobenzidine	22.337	-10.7	106026	0.381	0.427	10.641	10.639	3.57				
90	Benzo(a)anthracene	22.772	-8.9	291825	1.050	1.152	10.669	10.666	1.37				
91	Chrysene	22.673	-9.3	278753	1.003	1.106	10.706	10.703	2.04				
92	bis(2-Ethylhexyl)phthalate	23.899	-4.4	263313	0.947	0.991	10.692	10.689	2.81				
93	Perylene-d12	40.000	0	410920	1	1	12.075	12.070	0				
94	Di-n-octylphthalate	23.047	-7.8	409715	1.595	1.730	11.308	11.307	4.31				
95	Benzo(b)fluoranthene	22.292	-10.8	261442	1.018	1.142	11.688	11.687	2.34				
96	Benzo(k)fluoranthene	22.888	-8.4	339156	1.321	1.445	11.717	11.712	1.36				
97	Benzo(e)pyrene	25.255	1.0	299114	1.165	1.153	11.960	11.956	2.38				
98	Benzo(a)pyrene	22.566	-9.7	256613	0.999	1.107	12.014	12.010	2.08				
99	Perylene	24.846	-0.6	304407	1.185	1.193	12.096	12.097	3.58				
100	Indeno(1,2,3-cd)pyrene	23.702	-5.2	302471	1.178	1.242	13.324	13.324	1.88				
101	Dibenzo(a,h)anthracene	22.924	-8.3	244558	0.952	1.038	13.341	13.342	2.37				
102	Benzo(g,h,i)perylene	23.149	-7.4	251586	0.980	1.058	13.701	13.698	2.23				

TM 4-11-11

DAILY CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ180
Instrument ID: TOE4

Project: TAR CREEK OU4
SDG No.: 11D182
DFTPP Injection Date: 04/21/11
DFTPP Injection Time: 15:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.46
68	Less than 2% of mass 69	0.56(1.6)1
69	Relative abundance of mass 198	35.85
70	Less than 2.0% of mass 69	0.00(0.0)1
127	40.0 - 60.0% of mass 198	54.75
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.15
275	10.0 - 30.0% of mass 198	21.57
365	Greater than 1.00% of mass 198	3.08
441	Present, but less than mass 443	15.43(78.1)3
442	Greater than 40.0% of mass 198	93.31
443	17.0 - 23.0% of mass 442	19.75(21.2)2

1-Value is % mass 69 2-Value is % mass 442
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD025	CSVE4D0110	RDJ181	04/21/11	15:37
2	MBLK1S	SVD025SB	RDJ183	04/21/11	16:17
3	LCS1S	SVD025SL	RDJ184	04/21/11	16:36
4	LCD1S	SVD025SC	RDJ185	04/21/11	16:54
5	FAIRLAND	D182-14	RDJ187	04/21/11	17:32

FORM V SV OLM02.0

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:TAR CREEK OU4
SDG No.: 11D182
Date Analyzed: 04/01/11
Time Analyzed: 10:18

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	154392	2.96	599727	4.17	296510	6.17
	UPPER LIMIT	308784	3.46	1199454	4.67	593020	6.67
	LOWER LIMIT	77196	2.46	299864	3.67	148255	5.67
	SAMPLE ID						
1	SSTD025	143925	2.96	577599	4.16	296438	6.17
2	MBLK1S	153713	2.96	606929	4.17	311200	6.17
3	LCS1S	149463	2.96	594866	4.17	311546	6.17
4	LCD1S	146256	2.96	582584	4.16	296823	6.17
5	FAIRLAND	156984	2.96	615411	4.16	327926	6.17

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:TAR CREEK OU4
SDG No.: 11D182
Date Analyzed: 04/01/11
Time Analyzed: 10:18

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	516104	7.91	467073	10.68	452203	12.07
	UPPER LIMIT	1032208	8.41	934146	11.18	904406	12.57
	LOWER LIMIT	258052	7.41	233537	10.18	226102	11.57
	SAMPLE ID						
1	SSTD025	512094	7.91	447969	10.68	416743	12.07
2	MBLK1S	531685	7.90	492442	10.67	464838	12.06
3	LCS1S	546320	7.91	485271	10.67	430402	12.06
4	LCD1S	520779	7.91	462399	10.68	422974	12.07
5	FAIRLAND	569864	7.91	533764	10.67	503180	12.06

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :E4
IC Beginning DateTime :04/01/11 09:22
Spike Amount :25 PPM
CC/CV File :RDJ181
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
IC Ending DateTime :04/01/11 11:14
HPChem Method :SVE4D01
Date_Time :04/21/11 15:37

M IDX	Parameters	CC Con	CC% D	CC Resp	CCRRF	AVRRF	CC Rtm	AVRtm	% RSD	Co X0	Co X1	Co X2	Co Cor
1	1,4-Dichlorobenzene-d4	40.000	0	143925	1	1	2.957	2.957	0				
2	N-nitrosodimethylamine	28.238	13.0	50842	0.565	0.500	1.444	1.443	2.62				
3	Pyridine	26.335	5.3	90798	1.009	0.958	1.474	1.474	3.00				
4	2-Fluorophenol	27.212	8.8	106837	1.188	1.091	2.036	2.033	2.06				
5	Phenol-d5	26.499	6.0	120216	1.336	1.261	2.611	2.610	1.64				
6	Phenol	28.251	13.0	127778	1.420	1.257	2.623	2.621	1.40				
7	Aniline	25.857	3.4	145207	1.614	1.561	2.689	2.688	2.73				
8	bis(2-chloroethyl)ether	26.043	4.2	91724	1.020	0.979	2.714	2.716	4.51				
9	2-Chlorophenol	26.779	3.1	132043	1.468	1.424	2.785	2.782	2.76				
10	1,3-Dichlorobenzene	25.412	1.6	147647	1.641	1.615	2.912	2.912	1.47				
11	1,2-Dichlorobenzene-d4	25.670	2.7	91732	1.020	0.993	3.091	3.090	1.35				
12	1,4-Dichlorobenzene	25.207	0.8	150842	1.677	1.663	2.972	2.971	2.42				
13	Benzyl alcohol	26.513	6.1	71681	0.797	0.751	3.046	3.047	1.79				
14	1,2-Dichlorobenzene	25.092	0.4	141269	1.570	1.565	3.102	3.102	2.56				
15	2-Methylphenol	26.681	6.7	91635	1.019	0.954	3.125	3.123	2.31				
16	bis(2-chloroisopropyl)ether	29.208	16.8	177457	1.973	1.689	3.162	3.164	2.60				
17	4-Methylphenol	27.081	8.3	120795	1.343	1.240	3.259	3.259	2.17				
18	N-Nitroso-di-n-propylamine	28.975	15.9	59923	0.666	0.575	3.283	3.283	1.89				
19	Hexachloroethane	26.400	5.6	54465	0.605	0.573	3.407	3.409	1.69				
20	Naphthalene-d8	40.000	0	577599	1	1	4.165	4.166	0				
21	Nitrobenzene-d5	27.882	11.5	104393	0.289	0.259	3.440	3.439	1.84				
22	Nitrobenzene	28.886	15.5	99575	0.276	0.239	3.459	3.457	1.33				
23	Isophorone	27.609	10.4	182553	0.506	0.458	3.681	3.681	1.99				
24	2-Nitrophenol	24.512	-2.0	68028	0.188	0.192	3.767	3.765	0.85				
25	2,4-Dimethylphenol	27.275	9.1	118764	0.329	0.302	3.782	3.783	1.67				
26	Benzoic acid	21.345	-14.6	66746	0.185	0.217	3.852	3.851	7.87				
27	bis(2-Chloroethoxy)methane	25.704	2.8	116456	0.323	0.314	3.889	3.889	0.77				
28	2,4-Dichlorophenol	25.937	3.7	109865	0.304	0.293	4.001	4.001	1.67				
29	1,2,4-Trichlorobenzene	25.348	1.4	122157	0.338	0.334	4.104	4.102	2.40				
30	3,4-Dimethylphenol	26.795	7.2	154420	0.428	0.399	4.095	4.096	1.00				
31	Naphthalene	25.017	0.1	379613	1.052	1.051	4.189	4.189	2.27				
32	4-Chloroaniline	24.654	-1.4	159290	0.441	0.447	4.234	4.233	1.63				
33	Hexachlorobutadiene	26.628	6.5	66921	0.185	0.174	4.316	4.317	1.41				
34	Hydroquinone	24.030	-3.9	99007	0.274	0.285	4.570	4.567	2.61				
35	4-Chloro-3-methylphenol	26.503	6.0	98302	0.272	0.257	4.756	4.754	1.17				
36	2-Methylnaphthalene	25.040	0.2	237641	0.658	0.657	4.951	4.949	1.13				
37	1-Methylnaphthalene	25.007	0.0	243847	0.675	0.675	5.061	5.063	1.62				
38	Acenaphthene-d10	40.000	0	296438	1	1	6.170	6.171	0				
39	Hexachlorocyclopentadiene	24.264	-2.9	71096	0.384	0.395	5.128	5.132	4.40				
40	2,3,5-Trichlorophenol	25.121	0.5	77629	0.419	0.417	5.137	5.136	2.18				
41	2,4,6-Trichlorophenol	24.676	-1.3	74377	0.401	0.407	5.268	5.266	2.81				
42	2,4,5-Trichlorophenol	25.522	2.1	83992	0.448	0.439	5.307	5.302	1.80				
43	2,3,4-Trichlorophenol	24.631	-1.5	69927	0.377	0.383	5.378	5.375	1.12				
44	2-Fluorobiphenyl	25.279	1.1	275255	1.486	1.467	5.375	5.373	1.94				
45	Biphenyl	25.130	0.5	326598	1.763	1.754	5.487	5.490	2.32				
46	2-Chloronaphthalene	25.302	1.2	237292	1.281	1.265	5.514	5.511	1.88				
47	2-Nitroaniline	27.720	10.9	56302	0.304	0.274	5.630	5.627	0.82				
48	2,6-Dimethylnaphthalene	25.657	2.6	235020	1.269	1.236	5.675	5.675	1.50				
49	1,4-Dinitrobenzene	27.456	-5.2	33875	0.183	0.187	5.795	5.793	1.97				
50	Dimethylphthalate	25.585	2.3	272021	1.468	1.435	5.857	5.855	2.59				
51	1,3-Dinitrobenzene	25.189	0.8	38844	0.210	0.208	5.884	5.881	1.78				
52	2,6-Dinitrotoluene	24.728	-1.1	58053	0.313	0.317	5.922	5.926	2.35				
53	1,2-Dinitrobenzene	26.086	4.3	25220	0.136	0.130	5.981	5.979	2.72				
54	Acenaphthylene	23.946	-4.2	377819	2.039	2.129	6.001	6.001	1.44				
55	3-Nitroaniline	24.833	-0.7	68171	0.368	0.370	6.118	6.115	1.30				
56	Acenaphthene	25.210	1.6	257331	1.389	1.367	6.211	6.211	3.29				
57	2,4-Dinitrophenol	24.519	-1.9	31479	0.170	0.173	6.542	6.541	8.84				
58	4-Nitrophenol	24.576	-1.7	30992	0.167	0.170	6.317	6.310	3.07				
59	2,4-Dinitrotoluene	25.684	2.7	77050	0.416	0.405	6.403	6.401	1.92				
60	Dibenzofuran	25.189	0.8	331090	1.787	1.774	6.417	6.416	3.31				
61	2,3,5,6-Tetrachlorophenol	26.197	4.8	51922	0.280	0.267	6.510	6.509	1.82				
62	2,3,4,6-Tetrachlorophenol	26.209	4.8	64791	0.350	0.334	6.561	6.561	2.50				
63	2,3,5-Trimethylnaphthalene	25.308	1.2	201055	1.085	1.072	6.670	6.670	2.33				
64	Diethylphthalate	24.974	-0.1	274814	1.483	1.485	6.708	6.707	3.05				
65	Fluorene	25.236	0.9	263818	1.424	1.411	6.831	6.829	3.07				
66	4-Chlorophenyl-phenylether	25.585	2.3	117544	0.634	0.620	6.836	6.836	3.41				
67	4-Nitroaniline	25.725	2.9	67853	0.366	0.356	6.851	6.847	1.47				
68	Phenanthrene-d10	40.000	0	512094	1	1	7.905	7.905	0				
69	4,6-Dinitro-2-methylphenol	25.960	3.8	41824	0.131	0.126	6.889	6.887	6.37				
70	N-Nitrosodiphenylamine	25.387	1.5	217952	0.681	0.671	6.974	6.975	1.90				
71	Azobenzene	27.599	10.4	196627	0.614	0.556	7.024	7.023	1.80				
72	2,4,6-Tribromophenol	25.777	3.1	38078	0.119	0.115	7.111	7.109	1.82				
73	4-Bromophenyl-phenylether	26.579	6.3	71060	0.222	0.209	7.409	7.406	2.97				
74	Hexachlorobenzene	26.172	4.7	79879	0.250	0.238	7.466	7.468	4.03				
75	Pentachlorophenol	24.790	-0.8	46696	0.146	0.147	7.692	7.688	3.03				
76	Phenanthrene	25.345	1.4	384277	1.201	1.184	7.930	7.930	2.79				
77	Dinoseb	25.012	0.1	57902	0.181	0.181	7.905	7.906	10.64				
78	Anthracene	25.265	1.1	387579	1.211	1.198	7.988	7.986	2.44				
79	Carbazole	25.087	0.3	349388	1.092	1.088	8.167	8.164	0.77				
80	Di-n-butylphthalate	24.677	-1.3	435721	1.361	1.379	8.559	8.558	1.49				
81	1-Methylphenanthrene	25.278	1.1	270366	0.845	0.835	8.600	8.600	2.41				
82	Fluoranthene	26.255	5.0	367039	1.147	1.092	9.207	9.206	0.97				
83	Chrysene-d12	40.000	0	447969	1	1	10.679	10.679	0				
84	Benzidine												
85	Pyrene	25.379	1.5	391389	1.398	1.377	9.443	9.443	2.71				
86	Terphenyl-d14	25.881	3.5	213410	0.762	0.736	9.605	9.606	1.57				
87	Butylbenzylphthalate	24.066	-3.7	177674	0.635	0.659	10.113	10.111	2.75				
88	bis(2-ethylhexyl)adipate	24.599	-1.6	169666	0.606	0.616	10.189	10.191	3.19				
89	3,3'-Dichlorobenzidine	25.343	1.4	121153	0.433	0.427	10.642	10.639	3.57				
90	Benzo(a)anthracene	25.206	0.8	355325	1.162	1.152	10.665	10.666	1.37				
91	Chrysene	25.006	0.0	309631	1.106	1.106	10.702	10.703	2.04				
92	bis(2-Ethylhexyl)phthalate	24.217	-3.1	268725	0.960	0.991	10.688	10.689	2.81				
93	Perylene-d12	40.000	0	416743	1	1	12.070	12.070	0				
94	Di-n-octylphthalate	24.386	-2.5	439662	1.688	1.730	11.304	11.307	4.31				
95	Benzo(b)fluoranthene	24.908	-0.4	296269	1.137	1.142	11.685	11.687	2.34				
96	Benzo(k)fluoranthene	25.235	0.9	379536	1.456	1.442	11.714	11.712	1.36				
97	Benzo(e)pyrene	25.312	1.2	304036	1.167	1.153	11.955	11.956	2.38				
98	Benzo(a)pyrene	24.876	-0.5	286894	1.101	1.107	12.010	12.010	2.08				
99	Perylene	25.110	0.4	312008	1.198	1.193	12.097	12.097	3.58				
100	Indeno(1,2,3-cd)pyrene	24.523	-1.9	317372	1.218	1.242	13.320	13.324	1.88				
101	Dibenzo(a,h)anthracene	24.652	-1.4	266713	1.024	1.038	13.342	13.342	2.37				
102	Benzo(g,h,i)perylene	24.883	-0.5	274270	1.053	1.058	13.702	13.698	2.23				

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:55:46 2011
Quant Results File: SVE4D01.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01.M
Quant Title : SEMIVOLATILES 8270D
QLast Update : Fri Apr 01 13:18:45 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	93	0.00
2	T	N-nitrosodimethylamine	25.000	28.238	-13.0	106	0.00
3	T	Pyridine	25.000	26.332	-5.3	98	0.00
4	S	2-Fluorophenol	25.000	27.211	-8.8	102	0.00
5	S	Phenol-d5	25.000	26.499	-6.0	99	0.00
6	C	Phenol	25.000	28.251	-13.0	107	0.00
7	T	Aniline	25.000	25.857	-3.4	98	0.00
8	T	bis(2-chloroethyl)ether	25.000	26.043	-4.2	100	0.00
9	T	2-Chlorophenol	25.000	25.779	-3.1	98	0.00
10	T	1,3-Dichlorobenzene	25.000	25.412	-1.6	96	0.00
11	S	1,2-Dichlorobenzene-d4	25.000	25.670	-2.7	94	0.00
12	C	1,4-Dichlorobenzene	25.000	25.207	-0.8	96	0.00
13	T	Benzyl alcohol	25.000	26.513	-6.1	100	0.00
14	T	1,2-Dichlorobenzene	25.000	25.092	-0.4	94	0.00
15	T	2-Methylphenol	25.000	26.681	-6.7	101	0.00
16	T	bis(2-chloroisopropyl)ether	25.000	29.208	-16.8	110	0.00
17	T	4-Methylphenol	25.000	27.081	-8.3	102	0.00
18	P	N-Nitroso-di-n-propylamine	25.000	28.975	-15.9	109	0.00
19	T	Hexachloroethane	25.000	26.400	-5.6	99	0.00
20	I	Naphthalene-d8	40.000	40.000	0.0	96	0.00
21	S	Nitrobenzene-d5	25.000	27.882	-11.5	110	0.00
22	T	Nitrobenzene	25.000	28.886	-15.5	112	0.00
23	T	Isophorone	25.000	27.609	-10.4	109	0.00
24	C	2-Nitrophenol	25.000	24.512	2.0	95	0.00
25	T	2,4-Dimethylphenol	25.000	27.275	-9.1	107	0.00
26	T	Benzoic acid	25.000	21.345	14.6	82	0.00
27	T	bis(2-Chloroethoxy)methane	25.000	25.704	-2.8	99	0.00
28	C	2,4-Dichlorophenol	25.000	25.937	-3.7	101	0.00
29	T	1,2,4-Trichlorobenzene	25.000	25.348	-1.4	97	0.00
30	T	3,4-Dimethylphenol	25.000	26.795	-7.2	105	0.00
31	T	Naphthalene	25.000	25.017	-0.1	97	0.00
32	T	4-Chloroaniline	25.000	24.654	1.4	97	0.00
33	C	Hexachlorobutadiene	25.000	26.628	-6.5	104	0.00
34	T	Hydroquinone	25.000	24.030	3.9	92	0.00
35	C	4-Chloro-3-methylphenol	25.000	26.504	-6.0	103	0.00
36	T	2-Methylnaphthalene	25.000	25.040	-0.2	98	0.00
37	T	1-Methylnaphthalene	25.000	25.007	-0.0	98	0.00
38	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00
39	P	Hexachlorocyclopentadiene	25.000	24.264	2.9	93	0.00
40	T	2,3,5-Trichlorophenol	25.000	25.121	-0.5	101	0.00
41	C	2,4,6-Trichlorophenol	25.000	24.676	1.3	99	0.00
42	T	2,4,5-Trichlorophenol	25.000	25.522	-2.1	102	0.00
43	T	2,3,4-Trichlorophenol	25.000	24.631	1.5	97	0.00
44	S	2-Fluorobiphenyl	25.000	25.279	-1.1	101	0.00
45	T	Biphenyl	25.000	25.130	-0.5	100	0.00
46	T	2-Chloronaphthalene	25.000	25.302	-1.2	100	0.00
47	T	2-Nitroaniline	25.000	27.720	-10.9	110	0.00

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:55:46 2011
Quant Results File: SVE4D01.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01.M
Quant Title : SEMIVOLATILES 8270D
QLast Update : Fri Apr 01 13:18:45 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	T	2,6-Dimethylnaphthalene	25.000	25.657	-2.6	102	0.00
49	T	1,4-Dinitrobenzene	25.000	24.456	2.2	95	0.00
50	T	Dimethylphthalate	25.000	25.585	-2.3	103	0.00
51	T	1,3-Dinitrobenzene	25.000	25.189	-0.8	102	0.00
52	T	2,6-Dinitrotoluene	25.000	24.728	1.1	101	0.00
53	T	1,2-Dinitrobenzene	25.000	26.086	-4.3	105	0.00
54	T	Acenaphthylene	25.000	23.946	4.2	96	0.00
55	T	3-Nitroaniline	25.000	24.833	0.7	101	0.00
56	C	Acenaphthene	25.000	25.410	-1.6	102	0.00
57	P	2,4-Dinitrophenol	25.000	24.519	1.9	95	0.00
58	P	4-Nitrophenol	25.000	24.576	1.7	96	0.00
59	T	2,4-Dinitrotoluene	25.000	25.684	-2.7	103	0.00
60	T	Dibenzofuran	25.000	25.189	-0.8	102	0.00
61	T	2,3,5,6-Tetrachlorophenol	25.000	26.196	-4.8	105	0.00
62	T	2,3,4,6-Tetrachlorophenol	25.000	26.209	-4.8	107	0.00
63	T	2,3,5-Trimethylnaphthalene	25.000	25.308	-1.2	102	0.00
64	T	Diethylphthalate	25.000	24.974	0.1	102	0.00
65	T	Fluorene	25.000	25.235	-0.9	103	0.00
66	T	4-Chlorophenyl-phenylether	25.000	25.585	-2.3	104	0.00
67	T	4-Nitroaniline	25.000	25.725	-2.9	102	0.00
68	I	Phenanthrene-d10	40.000	40.000	0.0	99	0.00
69	T	4,6-Dinitro-2-methylphenol	25.000	25.960	-3.8	99	0.00
70	C	N-Nitrosodiphenylamine	25.000	25.387	-1.5	103	0.00
71	T	Azobenzene	25.000	27.599	-10.4	111	0.00
72	S	2,4,6-Tribromophenol	25.000	25.777	-3.1	102	0.00
73	T	4-Bromophenyl-phenylether	25.000	26.579	-6.3	109	0.00
74	T	Hexachlorobenzene	25.000	26.172	-4.7	104	0.00
75	C	Pentachlorophenol	25.000	24.790	0.8	97	0.00
76	T	Phenanthrene	25.000	25.345	-1.4	103	0.00
77	T	Dinoseb	25.000	25.019	-0.1	94	0.00
78	T	Anthracene	25.000	25.265	-1.1	101	0.00
79	T	Carbazole	25.000	25.087	-0.3	99	0.00
80	T	Di-n-butylphthalate	25.000	24.677	1.3	96	0.00
81	T	1-Methylphenanthrene	25.000	25.278	-1.1	102	0.00
82	C	Fluoranthene	25.000	26.255	-5.0	103	0.00
83	I	Chrysene-d12	40.000	40.000	0.0	96	0.00
84	T	Benzidine	25.000	0.000	100.0#	0	0.00
85	T	Pyrene	25.000	25.379	-1.5	100	0.00
86	S	Terphenyl-d14	25.000	25.881	-3.5	102	0.00
87	T	Butylbenzylphthalate	25.000	24.066	3.7	92	0.00
88	T	bis(2-ethylhexyl)adipate	25.000	24.599	1.6	93	0.00
89	T	3,3'-Dichlorobenzidine	25.000	25.343	-1.4	92	0.00
90	T	Benzo(a)anthracene	25.000	25.206	-0.8	96	0.00
91	T	Chrysene	25.000	25.006	-0.0	96	0.00
92	T	bis(2-Ethylhexyl)phthalate	25.000	24.217	3.1	90	0.00
93	I	Perylene-d12	40.000	40.000	0.0	92	0.00

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:55:46 2011
Quant Results File: SVE4D01.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01.M
Quant Title : SEMIVOLATILES 8270D
QLast Update : Fri Apr 01 13:18:45 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
94	C	Di-n-octylphthalate	25.000	24.386	2.5	91	0.00
95	T	Benzo(b)fluoranthene	25.000	24.908	0.4	94	0.00
96	T	Benzo(k)fluoranthene	25.000	25.235	-0.9	94	0.00
97	T	Benzo(e)pyrene	25.000	25.312	-1.2	95	0.00
98	C	Benzo(a)pyrene	25.000	24.876	0.5	93	0.00
99	T	Perylene	25.000	25.110	-0.4	95	0.00
100	T	Indeno(1,2,3-cd)pyrene	25.000	24.523	1.9	90	0.00
101	T	Dibenzo(a,h)anthracene	25.000	24.652	1.4	92	0.00
102	T	Benzo(g,h,i)perylene	25.000	24.883	0.5	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:55:46 2011
Quant Results File: SVE4D01.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01.M
Quant Title : SEMIVOLATILES 8270D
QLast Update : Fri Apr 01 13:18:45 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2	T	N-nitrosodimethylamine	0.500	0.565	-13.0	106	0.00
3	T	Pyridine	0.958	1.009	-5.3	98	0.00
4	S	2-Fluorophenol	1.091	1.188	-8.9	102	0.00
5	S	Phenol-d5	1.261	1.336	-5.9	99	0.00
6	C	Phenol	1.257	1.420	-13.0	107	0.00
7	T	Aniline	1.561	1.614	-3.4	98	0.00
8	T	bis(2-chloroethyl)ether	0.979	1.020	-4.2	100	0.00
9	T	2-Chlorophenol	1.424	1.468	-3.1	98	0.00
10	T	1,3-Dichlorobenzene	1.615	1.641	-1.6	96	0.00
11	S	1,2-Dichlorobenzene-d4	0.993	1.020	-2.7	94	0.00
12	C	1,4-Dichlorobenzene	1.663	1.677	-0.8	96	0.00
13	T	Benzyl alcohol	0.751	0.797	-6.1	100	0.00
14	T	1,2-Dichlorobenzene	1.565	1.570	-0.3	94	0.00
15	T	2-Methylphenol	0.954	1.019	-6.8	101	0.00
16	T	bis(2-chloroisopropyl)ether	1.689	1.973	-16.8	110	0.00
17	T	4-Methylphenol	1.240	1.343	-8.3	102	0.00
18	P	N-Nitroso-di-n-propylamine	0.575	0.666	-15.8	109	0.00
19	T	Hexachloroethane	0.573	0.605	-5.6	99	0.00
20	I	Naphthalene-d8	1.000	1.000	0.0	96	0.00
21	S	Nitrobenzene-d5	0.259	0.289	-11.6	110	0.00
22	T	Nitrobenzene	0.239	0.276	-15.5	112	0.00
23	T	Isophorone	0.458	0.506	-10.5	109	0.00
24	C	2-Nitrophenol	0.192	0.188	2.1	95	0.00
25	T	2,4-Dimethylphenol	0.302	0.329	-8.9	107	0.00
26	T	Benzoic acid	0.217	0.185	14.7	82	0.00
27	T	bis(2-Chloroethoxy)methane	0.314	0.323	-2.9	99	0.00
28	C	2,4-Dichlorophenol	0.293	0.304	-3.8	101	0.00
29	T	1,2,4-Trichlorobenzene	0.334	0.338	-1.2	97	0.00
30	T	3,4-Dimethylphenol	0.399	0.428	-7.3	105	0.00
31	T	Naphthalene	1.051	1.052	-0.1	97	0.00
32	T	4-Chloroaniline	0.447	0.441	1.3	97	0.00
33	C	Hexachlorobutadiene	0.174	0.185	-6.3	104	0.00
34	T	Hydroquinone	0.285	0.274	3.9	92	0.00
35	C	4-Chloro-3-methylphenol	0.257	0.272	-5.8	103	0.00
36	T	2-Methylnaphthalene	0.657	0.658	-0.2	98	0.00
37	T	1-Methylnaphthalene	0.675	0.675	0.0	98	0.00
38	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
39	P	Hexachlorocyclopentadiene	0.395	0.384	2.8	93	0.00
40	T	2,3,5-Trichlorophenol	0.417	0.419	-0.5	101	0.00
41	C	2,4,6-Trichlorophenol	0.407	0.401	1.5	99	0.00
42	T	2,4,5-Trichlorophenol	0.439	0.448	-2.1	102	0.00
43	T	2,3,4-Trichlorophenol	0.383	0.377	1.6	97	0.00
44	S	2-Fluorobiphenyl	1.469	1.486	-1.2	101	0.00
45	T	Biphenyl	1.754	1.763	-0.5	100	0.00
46	T	2-Chloronaphthalene	1.265	1.281	-1.3	100	0.00
47	T	2-Nitroaniline	0.274	0.304	-10.9	110	0.00

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:55:46 2011
Quant Results File: SVE4D01.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01.M
Quant Title : SEMIVOLATILES 8270D
QLast Update : Fri Apr 01 13:18:45 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	T	2,6-Dimethylnaphthalene	1.236	1.269	-2.7	102	0.00
49	T	1,4-Dinitrobenzene	0.187	0.183	2.1	95	0.00
50	T	Dimethylphthalate	1.435	1.468	-2.3	103	0.00
51	T	1,3-Dinitrobenzene	0.208	0.210	-1.0	102	0.00
52	T	2,6-Dinitrotoluene	0.317	0.313	1.3	101	0.00
53	T	1,2-Dinitrobenzene	0.130	0.136	-4.6	105	0.00
54	T	Acenaphthylene	2.129	2.039	4.2	96	0.00
55	T	3-Nitroaniline	0.370	0.368	0.5	101	0.00
56	C	Acenaphthene	1.367	1.389	-1.6	102	0.00
57	P	2,4-Dinitrophenol	0.173	0.170	1.7	95	0.00
58	P	4-Nitrophenol	0.170	0.167	1.8	96	0.00
59	T	2,4-Dinitrotoluene	0.405	0.416	-2.7	103	0.00
60	T	Dibenzofuran	1.774	1.787	-0.7	102	0.00
61	T	2,3,5,6-Tetrachlorophenol	0.267	0.280	-4.9	105	0.00
62	T	2,3,4,6-Tetrachlorophenol	0.334	0.350	-4.8	107	0.00
63	T	2,3,5-Trimethylnaphthalene	1.072	1.085	-1.2	102	0.00
64	T	Diethylphthalate	1.485	1.483	0.1	102	0.00
65	T	Fluorene	1.411	1.424	-0.9	103	0.00
66	T	4-Chlorophenyl-phenylether	0.620	0.634	-2.3	104	0.00
67	T	4-Nitroaniline	0.356	0.366	-2.8	102	0.00
68	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
69	T	4,6-Dinitro-2-methylphenol	0.126	0.131	-4.0	99	0.00
70	C	N-Nitrosodiphenylamine	0.671	0.681	-1.5	103	0.00
71	T	Azobenzene	0.556	0.614	-10.4	111	0.00
72	S	2,4,6-Tribromophenol	0.115	0.119	-3.5	102	0.00
73	T	4-Bromophenyl-phenylether	0.209	0.222	-6.2	109	0.00
74	T	Hexachlorobenzene	0.238	0.250	-5.0	104	0.00
75	C	Pentachlorophenol	0.147	0.146	0.7	97	0.00
76	T	Phenanthrene	1.184	1.201	-1.4	103	0.00
77	T	Dinoseb	0.181	0.181	0.0	94	0.00
78	T	Anthracene	1.198	1.211	-1.1	101	0.00
79	T	Carbazole	1.088	1.092	-0.4	99	0.00
80	T	Di-n-butylphthalate	1.379	1.361	1.3	96	0.00
81	T	1-Methylphenanthrene	0.835	0.845	-1.2	102	0.00
82	C	Fluoranthene	1.092	1.147	-5.0	103	0.00
83	I	Chrysene-d12	1.000	1.000	0.0	96	0.00
84	T	Benzidine	0.000	0.000	0.0	0#	0.00
85	T	Pyrene	1.377	1.398	-1.5	100	0.00
86	S	Terphenyl-d14	0.736	0.762	-3.5	102	0.00
87	T	Butylbenzylphthalate	0.659	0.635	3.6	92	0.00
88	T	bis(2-ethylhexyl)adipate	0.616	0.606	1.6	93	0.00
89	T	3,3'-Dichlorobenzidine	0.427	0.433	-1.4	92	0.00
90	T	Benzo(a)anthracene	1.152	1.162	-0.9	96	0.00
91	T	Chrysene	1.106	1.106	0.0	96	0.00
92	T	bis(2-Ethylhexyl)phthalate	0.991	0.960	3.1	90	0.00
93	I	Perylene-d12	1.000	1.000	0.0	92	0.00

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:55:46 2011
Quant Results File: SVE4D01.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01.M
Quant Title : SEMIVOLATILES 8270D
QLast Update : Fri Apr 01 13:18:45 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
94	C	Di-n-octylphthalate	1.730	1.688	2.4	91	0.00
95	T	Benzo(b)fluoranthene	1.142	1.137	0.4	94	0.00
96	T	Benzo(k)fluoranthene	1.442	1.456	-1.0	94	0.00
97	T	Benzo(e)pyrene	1.153	1.167	-1.2	95	0.00
98	C	Benzo(a)pyrene	1.107	1.101	0.5	93	0.00
99	T	Perylene	1.193	1.198	-0.4	95	0.00
100	T	Indeno(1,2,3-cd)pyrene	1.242	1.218	1.9	90	0.00
101	T	Dibenzo(a,h)anthracene	1.038	1.024	1.3	92	0.00
102	T	Benzo(g,h,i)perylene	1.058	1.053	0.5	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR SEMIVOLATILES

SOP ☑ EMAX-8270 Rev. No. 4 ☐ EMAX-8270SIM Rev. No. 1 ☐ EMAX-CLPSVOA ☐ EMAX-M8270SIM Rev. No. 1 ☐ EMAX-625 Rev. No. 0 ☐ Book #AE4 -008

Method File: SVE4D01S Tune File: DFTPP Start Date/Time: 4/1/11 9:10 End Date/Time: 4/1/11

ANALYTICAL BATCH: SVE4D014

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
NA	RDJ001	IBE4D0101	x			
	2	DFTE4D0101				
	3	SVE4D011				50ppm 8270
	4	2				40
	5	3				30
	6	4				25
	7	5				20
	8	6				10
	9	7				5
	10	8				2
	11	9				1
	12	10				0.5
	13	11				0.15
	14	12				0.075
	15	ISVE4D011				ICV
	16	SVE4D01A1	x			50ppm Benzidine
	17	2				40
	18	3				30
	19	4				25
	20	5				10
	21	6				5
	22	7				2
	23	ISVE4D01A1				ICV
		KV 4/1/11				

Instrument No:	E4
INITIAL CALIBRATION REFERENCE	
Date	4/1/11
ICAL ID	SVE4D01/01A/01S

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2C-09-2-1	50
INT. STD.	SS2B-07-51-3	2000
ICV	SS2C-09-4-3	25
DCC	SS2C-09-4-1	0.075-25
BENZIDINE	SS2C-09-3-2	2-50
APP 9		
APP 9 ADD		
Ben ICV	SS2C-09-3-3	25
8270	SS2C-09-4-2	30-50

Solvent	ID
CH_2Cl_2	50294

DATA FILE	11D01

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/TOE4	

Comments:

Analyzed By: KV

Date Disposed: NA

Disposed By: NA

This page is checked during data review.

8209

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR SEMIVOLATILES

SOP [Y] EMAX-8270 Rev. No. 4 [ ] EMAX-8270SIM Rev. No. 1 [ ] EMAX-CLPSVOA [ ] EMAX-M8270SIM Rev. No. 1 [ ] EMAX-625 Rev. No. 0 [ ]

Book #AE4 -008

Method File: SVE4D01S Tune File: DFTPP Start Date/Time: 4/21/11 15:26 End Date/Time: 4/21/11 18:28

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
	RDJ179	1BE4D0110				
	180	DFTE4D0110				
	181	CSVE4D0110				
	182	CSVE4D01A10				
SVD025S	183	SVD025SB	1	x		
	184	SL				
	185	SC				
SVD020W	186	11D159-01			x	
SVD025S	187	11D182-14		x		
SVD020W	RDJ188	11D159-01W	1		x	conf only

Instrument No: E4

INITIAL CALIBRATION REFERENCE	
Date	4/1/11
ICAL ID	SVE4D01/01A/01S

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2C-09-2-1	50
INT. STD.	SS2B-07-51-3	2000
ICV		
DCC	SS2C-09-4-1	25
BENZIDINE	SS2C-09-3-2	25
APP 9		
APP 9 ADD		

Solvent	ID
CH_2Cl_2	50294

DATA FILE	11D21

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/TOE4	

Comments:

Analyzed By: DC

Date Disposed: 4/21/11

Disposed By: DC

This page is checked during data review.

ANALYTICAL BATCH: CSVE4D0110 Date: 4/21/11

DC

3039

EXTRACTION LOGS

EMAX LABORATORIES, INC.

EXTRACTION LOG
for
SEMIVOLATILES

SOP	Rev. #
☐ EMAX-3510	1
☐ EMAX-3520	3
☐ EMAX-3540	1
☑ EMAX-3550	3
☐ EMAX-3580	1
☐ EMAX-CLP-SVOA	
☐ EMAX-	

Book #: ESV-060

Preparation Batch: SVD025S

Matrix: SOIL

Standards	ID	Amount Added (ml)
Surrogate	SS2A-06-150	0.4
LCS/MS FULL LIST BENZOIC ACID	SS2A-06-184 SS2B-07-52-3	0.2 0.2
Micropipette Check ID	PE00-04 (1000uL) PE97A-01 (100 uL)	

Reagent	Lot# / ID
CH_2Cl_2	50294
Na_2SO_4	SW1B-002-09-11
H_2SO_4	-
NaOH	-
Silica Sand	78686

TUNING

Sonicator #	Reading
4	472
6	252

Concentrator	Water Bath Temperature Setting (°C)	Thermometer Reading (°C)
1	35	35
2	35	35
3		
4		
5		
6		

Note: For samples and relevant QCs/Standards extracted, refer to attached extraction sequence.

Comments:

LAB SAMPLE ID	SONICATOR #	TURBO VAP # (35°C)
SVD025-SB	4	1
-SL,SC	6	1
D182-14	4	1
D192-06,11	6	1
-11M,11S	6	2
D208-02	4	2
-08,12	6	2
-16	4	2

Thermometer ID = T_1

Prepared By: JU Witnessed By: CS

Standard Added By: JU Checked By: JM

Extract Received By: JU 4/20 21/11 Location: SE01#07

Disposed By: Disposed On:

EMAX LABORATORIES, INC.

FileID: SVD025S

EXTRACTION LOG FOR SEMIVOLATILES

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Ve(ml)	ExpAmt	ExpVe(ml)	PrepFctr	Comments
11SVD025S01	SVD025SB	30	g	4/21/11 10:46	2	30	2	1	
11SVD025S02	SVD025SL	30	g	4/21/11 10:46	2	30	2	1	
11SVD025S03	SVD025SC	30	g	4/21/11 10:46	2	30	2	1	
11SVD025S04	D182-14	30.03	g	4/21/11 10:48	2	30	2	1	
11SVD025S05	D192-06	30.01	g	4/21/11 10:49	2	30	2	1	
11SVD025S06	D192-11	30.02	g	4/21/11 10:49	2	30	2	1	
11SVD025S07	D192-11M	30.02	g	4/21/11 10:50	2	30	2	1	
11SVD025S08	D192-11S	30.01	g	4/21/11 10:50	2	30	2	1	
11SVD025S09	D208-02	30.01	g	4/21/11 11:54	2	30	2	1	
11SVD025S10	D208-08	30.01	g	4/21/11 11:55	2	30	2	1	
11SVD025S11	D208-12	30	g	4/21/11 11:55	2	30	2	1	
11SVD025S12	D208-16	30.03	g	4/21/11 11:56	2	30	2	1	

Balance ID: 10203192. Calibration check was verified prior to use.

Ve=extract volume

PrepFctr=(ExpAmt/Aliquot)(Ve/ExpVe)

☑ Extraction Started @ 4/21/11 12:40 ☐ pHAdj(≤2) @

Prepared By: jvillena

☑ Extraction Ended @ 4/21/11 14:21 ☐ pHAdj(≥11) @

Checked By: JM

Comments:

Date 4/21/11

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METHOD 3550B/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 11D182

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

SW3550B/8270CSIM
SEMI VOLATILE ORGANICS BY GC/MS

One (1) soil sample was received on 04/16/11 for PAH BY 8270C SIM analysis, Method SW3550B/8270CSIM in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios as well as DDT breakdown were evaluated. Results were within acceptance criteria. Tailing factor for Benzidine and Pentachlorophenol were also verified and results were within the method limits. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for SVD025SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogate was added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : T-OE4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	SVD025SB	1	NA	04/21/1116:17	04/21/1112:40	RDJ183	RDJ006	SVD025S	Method Blank
LCS1S	SVD025SL	1	NA	04/21/1116:36	04/21/1112:40	RDJ184	RDJ006	SVD025S	Lab Control Sample (LCS)
LCD1S	SVD025SC	1	NA	04/21/1116:54	04/21/1112:40	RDJ185	RDJ006	SVD025S	LCS Duplicate
FAIRLAND	D182-14	1	20.0	04/21/1117:32	04/21/1112:40	RDJ187	RDJ006	SVD025S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW3550B/8270CSIM
SEMI VOLATILE ORGANICS BY GC/MS

Client : CH2M HILL	Date Collected: 04/15/11
Project : TAR CREEK OU4	Date Received: 04/16/11
Batch No. : 11D182	Date Extracted: 04/21/11 12:40
Sample ID: FAIRLAND	Date Analyzed: 04/21/11 17:32
Lab Samp ID: D182-14	Dilution Factor: 1
Lab File ID: RDJ187	Matrix : SOIL
Ext Btch ID: SVD025S	% Moisture : 20.0
Calib. Ref.: RDJ006	Instrument ID : T-OE4

PARAMETERS	RESULTS (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)
BENZO(A)PYRENE	ND	25	12
BIS(2-CHLOROETHYL)ETHER	ND	37	12
DIBENZO(A,H)ANTHRACENE	ND	25	12
HEXACHLOROBENZENE	ND	25	12
N-NITROSO-DI-N-PROPYLAMINE	ND	25	12

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TERPHENYL-D14	909	833.4	109	40-130

RL: Reporting Limit

QC SUMMARIES

SW3550B/8270CSIM
SEMI VOLATILE ORGANICS BY GC/MS

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/21/11
Batch No.	: 11D182	Date Extracted:	04/21/11 12:40
Sample ID:	MBLK1S	Date Analyzed:	04/21/11 16:17
Lab Samp ID:	SVD025SB	Dilution Factor:	1
Lab File ID:	RDJ183	Matrix :	SOIL
Ext Btch ID:	SVD025S	% Moisture :	NA
Calib. Ref.:	RDJ006	Instrument ID :	T-OE4

PARAMETERS	RESULTS (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)
BENZO(A)PYRENE	ND	20	10
BIS(2-CHLOROETHYL)ETHER	ND	30	10
DIBENZO(A,H)ANTHRACENE	ND	20	10
HEXACHLOROBENZENE	ND	20	10
N-NITROSO-DI-N-PROPYLAMINE	ND	20	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TERPHENYL-D14	702	666.7	105	40-130

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: SW3550B/8270CSIM

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	SVD025SB	SVD025SL	SVD025SC		
LAB FILE ID:	RDJ183	RDJ184	RDJ185		
DATE EXTRACTED:	04/21/1112:40	04/21/1112:40	04/21/1112:40	DATE COLLECTED:	NA
DATE ANALYZED:	04/21/1116:17	04/21/1116:36	04/21/1116:54	DATE RECEIVED:	04/21/11
PREP. BATCH:	SVD025S	SVD025S	SVD025S		
CALIB. REF:	RDJ006	RDJ006	RDJ006		

ACCESSION:

PARAMETER	BLNK RSLT (ug/Kg)	SPIKE AMT (ug/Kg)	BS RSLT (ug/Kg)	BS % REC	SPIKE AMT (ug/Kg)	BSD RSLT (ug/Kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Benzo(a)pyrene	ND	1330	1260	94	1330	1270	95	1	30-130	50
bis(2-Chloroethyl)ether	ND	1330	1070	80	1330	1060	80	1	30-150	50
Dibenzo(a,h)anthracene	ND	1330	1270	95	1330	1280	96	1	40-140	50
Hexachlorobenzene	ND	1330	1270	95	1330	1270	95	1	30-150	50
n-Nitroso-di-n-propylamine	ND	1330	1210	91	1330	1190	89	2	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/Kg)	BS RSLT (ug/Kg)	BS % REC	SPIKE AMT (ug/Kg)	BSD RSLT (ug/Kg)	BSD % REC	QC LIMIT (%)
Terphenyl-d14	667	707	106	667	718	108	40-130

INITIAL CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ002
Instrument ID: TOE4

Project: TAR CREEK OU4
SDG No.: 11D182
DFTPP Injection Date: 04/01/11
DFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.69
68	Less than 2% of mass 69	0.25(0.7)1
69	Relative abundance of mass 198	35.43
70	Less than 2.0% of mass 69	0.00(0.0)1
127	40.0 - 60.0% of mass 198	57.34
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.64
275	10.0 - 30.0% of mass 198	23.11
365	Greater than 1.00% of mass 198	3.17
441	Present, but less than mass 443	13.90(76.7)3
442	Greater than 40.0% of mass 198	88.04
443	17.0 - 23.0% of mass 442	18.13(20.6)2

1-Value is % mass 69 2-Value is % mass 442
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD050	SVE4D011	RDJ003	04/01/11	09:22
2	SSTD040	SVE4D012	RDJ004	04/01/11	09:41
3	SSTD030	SVE4D013	RDJ005	04/01/11	09:59
4	SSTD025	SVE4D014	RDJ006	04/01/11	10:18
5	SSTD020	SVE4D015	RDJ007	04/01/11	10:36
6	SSTD010	SVE4D016	RDJ008	04/01/11	10:55
7	SSTD005	SVE4D017	RDJ009	04/01/11	11:14
8	SSTD002	SVE4D018	RDJ010	04/01/11	11:33
9	SSTD001	SVE4D019	RDJ011	04/01/11	11:51
10	SSTD0.5	SVE4D0110	RDJ012	04/01/11	12:10
11	SSTD0.15	SVE4D0111	RDJ013	04/01/11	12:29
12	SSTD0.075	SVE4D0112	RDJ014	04/01/11	12:47
13	SSTD025	ISVE4D011	RDJ015	04/01/11	13:46

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:ICAL
SDG No.: ICAL
Date Analyzed: 04/01/11
Time Analyzed: 10:18

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	659134	7.90	0	0.00	635896	12.07
UPPER LIMIT	1318268	8.40	0	0.50	1271792	12.57
LOWER LIMIT	329567	7.40	0	-0.50	317948	11.57
SAMPLE ID						
1 SVE4D0112	641681	7.90	0	0.00	509737	12.07
2 SVE4D0111	648637	7.90	0	0.00	517832	12.06
3 SVE4D0110	655119	7.91	0	0.00	528919	12.07
4 SVE4D019	734954	7.90	0	0.00	604308	12.07
5 SVE4D018	737677	7.91	0	0.00	700622	12.07
6 SVE4D017	728269	7.90	0	0.00	606636	12.07
7 SVE4D016	701513	7.90	0	0.00	591394	12.07
8 SVE4D015	676805	7.90	0	0.00	584301	12.07
9 SVE4D013	648376	7.90	0	0.00	555047	12.07
10 SVE4D012	631848	7.91	0	0.00	543197	12.07
11 SVE4D011	635364	7.91	0	0.00	546403	12.07
12 ISVE4D011	662489	7.91	0	0.00	579377	12.07

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII SV-2 OLM02.0

4-15-11

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :E4
Beginning DateTime :04/01/11 09:22
Spike Units :PPM
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :04/01/11 12:47
HPChem Method :SVE4D01S

IDX	Parameters	.075 12:47 RDJ014	.15 12:29 RDJ013	.5 12:10 RDJ012	1 11:51 RDJ011	2 11:33 RDJ010	5 11:14 RDJ009	10 10:55 RDJ008	20 10:36 RDJ007	25 10:18 RDJ006	30 09:59 RDJ005	40 09:41 RDJ004	50 09:22 RDJ003	Av_RRF	%_RSD	Av_Rt_M
1	1,4-Dichlorobenzene-d4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	2.9574
2	N-nitrosodimethylamine	0.465	0.461	0.454	0.454	0.449	0.478	0.466	0.462	0.462	0.460	0.462	0.479	0.463	1.94	1.4471
3	2-Fluorophenol	1.196	1.120	1.063	1.055	1.024	1.086	1.061	1.049	1.050	1.041	1.043	1.060	1.071	4.32	2.0341
4	Phenol-d5	1.319	1.223	1.203	1.183	1.157	1.236	1.210	1.196	1.188	1.193	1.196	1.205	1.209	3.30	2.6094
5	Phenol	1.402	1.255	1.183	1.177	1.144	1.228	1.197	1.176	1.168	1.172	1.176	1.185	1.205	5.68	2.6200
6	bis(2-chloroethyl)ether	1.097	1.069	0.953	0.930	0.911	0.937	0.907	0.892	0.887	0.890	0.894	0.895	0.938	7.56	2.7165
7	2-Chlorophenol	1.578	1.443	1.396	1.371	1.344	1.439	1.398	1.381	1.373	1.368	1.371	1.378	1.403	4.42	2.7829
8	N-Nitroso-di-n-propylamine	0.586	0.605	0.535	0.517	0.511	0.548	0.538	0.536	0.527	0.535	0.533	0.532	0.542	4.97	3.2792
9	Nitrobenzene-d5	1.002	0.952	0.895	0.902	0.882	0.947	0.930	0.921	0.909	0.918	0.923	0.918	0.925	3.38	3.4375
10	2,4-Dimethylphenol	1.196	1.120	1.092	1.098	1.086	1.171	1.135	1.131	1.112	1.124	1.125	1.111	1.125	2.82	3.7811
11	2,4-Dichlorophenol	1.368	1.115	1.096	1.101	1.098	1.194	1.177	1.158	1.144	1.154	1.154	1.145	1.159	6.31	4.0002
12	Naphthalene	4.983	4.562	4.238	4.133	3.982	4.196	4.037	3.957	3.904	3.930	3.921	3.877	4.143	7.93	4.1874
13	4-Chloro-3-methylphenol	0.965	0.906	0.892	0.915	0.899	1.000	0.981	0.968	0.949	0.969	0.969	0.958	0.947	3.76	4.7537
14	2-Methylnaphthalene	3.020	2.804	2.633	2.565	2.494	2.665	2.593	2.534	2.490	2.523	2.521	2.482	2.610	6.09	4.9496
15	1-Methylnaphthalene	3.107	2.877	2.719	2.670	2.586	2.744	2.669	2.604	2.557	2.585	2.574	2.546	2.686	6.09	5.0631
16	2,4,6-Trichlorophenol	------	0.851	0.808	0.794	0.783	0.859	0.845	0.838	0.816	0.837	0.844	0.826	0.827	2.94	5.2654
17	2,4,5-Trichlorophenol	------	0.903	0.810	0.847	0.829	0.933	0.921	0.899	0.884	0.908	0.901	0.888	0.884	4.38	5.3016
18	2,3,4-Trichlorophenol	------	0.719	0.735	0.748	0.733	0.820	0.803	0.792	0.773	0.789	0.786	0.775	0.770	4.19	5.3776
19	2-Fluorobiphenyl	3.664	3.307	3.174	3.065	2.954	3.122	3.023	2.951	2.881	2.911	2.907	2.885	3.070	7.44	5.3709
20	Biphenyl	4.053	3.669	3.523	3.445	3.330	3.527	3.394	3.340	3.246	3.294	3.298	3.249	3.447	6.67	5.4874
21	2,6-Dimethylnaphthalene	2.721	2.485	2.401	2.370	2.320	2.482	2.401	2.352	2.286	2.330	2.331	2.292	2.398	5.05	5.6746
22	Acenaphthylene	4.694	4.290	4.206	4.160	4.099	4.435	4.292	4.185	4.059	4.143	4.134	4.039	4.228	4.35	6.0002
23	Acenaphthene	3.261	2.977	2.792	2.728	2.615	2.763	2.675	2.583	2.509	2.559	2.545	2.488	2.708	8.26	6.2081
24	2,3,5-Trimethylnaphthalene	2.385	2.178	2.097	2.066	2.013	2.167	2.095	2.049	1.980	2.021	2.008	1.967	2.086	5.55	6.6692
25	Fluorene	3.273	2.989	2.942	2.908	2.795	3.007	2.905	2.846	2.728	2.795	2.772	2.702	2.889	5.41	6.8267
26	Phenanthrene-d10	1	1	1	1	1	1	1	1	1	1	1	1	1	0	7.9040
27	Azobenzene	0.516	0.474	0.466	0.464	0.477	0.496	0.489	0.498	0.487	0.489	0.492	0.495	0.487	3.03	7.0206
28	2,4,6-Tribromophenol	------	0.113	0.112	0.120	0.121	0.134	0.134	0.138	0.135	0.136	0.137	0.136	0.129	7.99	7.1070
29	Hexachlorobenzene	0.331	0.302	0.287	0.270	0.270	0.272	0.266	0.265	0.261	0.258	0.259	0.258	0.275	7.94	7.4676
30	Pentachlorophenol	------	------	0.109	0.116	0.125	0.142	0.147	0.154	0.155	0.155	0.156	0.158	0.142	12.95	7.6874
31	Phenanthrene	1.489	1.323	1.273	1.209	1.162	1.214	1.177	1.173	1.153	1.142	1.143	1.146	1.217	8.40	7.9287
32	Anthracene	1.425	1.216	1.214	1.176	1.146	1.223	1.190	1.195	1.179	1.175	1.171	1.173	1.207	5.97	7.9859
33	Carbazole	1.024	0.966	0.965	0.976	1.015	1.077	1.061	1.065	1.078	1.050	1.059	1.059	1.033	4.14	8.1635
34	1-Methylphenanthrene	0.874	0.786	0.787	0.779	0.771	0.822	0.800	0.801	0.803	0.781	0.785	0.786	0.798	3.47	8.5992
35	Fluoranthene	1.462	1.083	1.071	1.048	1.073	1.127	1.109	1.122	1.149	1.108	1.113	1.112	1.131	9.53	9.2054
36	Pyrene	1.258	1.146	1.144	1.144	1.189	1.232	1.205	1.218	1.242	1.197	1.200	1.196	1.198	3.16	9.4407
37	Terphenyl-d14	0.697	0.650	0.640	0.635	0.678	0.688	0.676	0.682	0.710	0.673	0.674	0.674	0.673	3.28	9.6075
38	Benzo(a)anthracene	2.084	1.529	1.106	1.038	1.102	1.061	1.041	1.052	1.120	1.030	1.039	1.040	1.187	26.46	10.6673
39	Chrysene	1.157	1.051	1.041	1.004	1.065	1.019	1.007	1.009	1.068	0.986	0.990	0.981	1.031	4.80	10.7021
40	bis(2-Ethylhexyl)phthalate	------	------	0.576	0.622	0.742	0.775	0.795	0.828	0.885	0.816	0.831	0.834	0.770	12.77	10.6887
41	Perylene-d12	1	1	1	1	1	1	1	1	1	1	1	1	1	0	12.0682
42	Benzo(b)fluoranthene	1.207	1.082	1.070	1.070	1.074	1.168	1.122	1.171	1.137	1.130	1.158	1.130	1.127	4.02	11.6852
43	Benzo(k)fluoranthene	1.297	1.278	1.364	1.280	1.269	1.382	1.399	1.333	1.335	1.363	1.324	1.371	1.333	3.30	11.7108
44	Benzo(e)pyrene	1.250	1.147	1.148	1.090	1.086	1.161	1.141	1.144	1.132	1.129	1.129	1.138	1.141	3.58	11.9541
45	Benzo(a)pyrene	1.073	0.987	1.025	0.987	0.992	1.087	1.089	1.088	1.083	1.082	1.087	1.090	1.056	4.19	12.0073
46	Perylene	1.309	1.250	1.242	1.152	1.135	1.179	1.150	1.147	1.146	1.138	1.143	1.147	1.178	4.82	12.0933
47	Indeno(1,2,3-cd)pyrene	1.488	1.242	1.218	1.154	1.178	1.255	1.242	1.263	1.276	1.256	1.263	1.281	1.260	6.47	13.3173
48	Dibenzo(a,h)anthracene	1.054	0.972	1.008	0.953	0.977	1.043	1.031	1.047	1.058	1.040	1.044	1.061	1.024	3.62	13.3378
49	Benzo(g,h,i)perylene	1.171	1.087	1.060	0.987	0.994	1.055	1.044	1.058	1.069	1.051	1.052	1.071	1.058	4.34	13.6927

Ave_%RSD : 5.9 Max_%RSD : 26.5

Use Least Square Linear Regression with weighting factor of inverse concentration
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
38	Benzo(a)anthracene	0.00174	1.04815	0.9996

4-15-11

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :E4
Beginning DateTime :04/01/11 09:22
Spike Units :PPM
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
Ending DateTime :04/01/11 12:47
HPChem Method :SVE4D01S

IDX	Parameters	.075 12:47 RDJ014	.15 12:29 RDJ013	.5 12:10 RDJ012	1 11:51 RDJ011	2 11:33 RDJ010	5 11:14 RDJ009	10 10:55 RDJ008	20 10:36 RDJ007	25 10:18 RDJ006	30 09:59 RDJ005	40 09:41 RDJ004	50 09:22 RDJ003	AvDRec	%_RSD	Av_Rt_M
1	1,4-Dichlorobenzene-d4	1	1	1	1	1	1	1	1	1	1	1	1	1	0	2.9574
2	N-nitrosodimethylamine	100	100	98	98	97	103	101	100	100	99	100	103	1.4	1.94	1.4471
3	2-Fluorophenol	112	105	99	99	96	101	99	98	98	97	97	99	3	4.32	2.0341
4	Phenol-d5	109	101	100	98	96	102	100	99	98	99	99	100	2.1	3.30	2.6094
5	Phenol	116	104	98	98	95	102	99	98	97	97	98	98	3.7	5.68	2.6200
6	bis(2-chloroethyl)ether	117	114	102	99	97	100	97	95	95	95	95	95	5.4	7.56	2.7165
7	2-Chlorophenol	112	103	100	98	96	103	100	98	98	98	98	98	3	4.42	2.7829
8	N-Nitroso-di-n-propylamine	108	112	99	95	94	101	99	99	97	99	98	98	3.5	4.97	3.2792
9	Nitrobenzene-d5	108	103	97	98	95	102	101	100	98	99	100	99	2.4	3.38	3.4375
10	2,4-Dimethylphenol	106	100	97	98	97	104	101	101	99	100	100	99	2	2.82	3.7811
11	2,4-Dichlorophenol	118	96	95	95	95	103	102	100	99	100	100	99	3.8	6.31	4.0002
12	Naphthalene	120	110	102	100	96	101	97	96	94	95	95	94	5.7	7.93	4.1874
13	4-Chloro-3-methylphenol	102	96	94	97	95	106	104	102	100	102	102	101	3.2	3.76	4.7537
14	2-Methylnaphthalene	116	107	101	98	96	102	99	97	95	97	97	95	4.3	6.09	4.9496
15	1-Methylnaphthalene	116	107	101	99	96	102	99	97	95	96	96	95	4.3	6.09	5.0631
16	2,4,6-Trichlorophenol	------	103	98	96	95	104	102	101	99	101	102	100	2.4	2.94	5.2654
17	2,4,5-Trichlorophenol	------	102	92	96	94	106	104	102	100	103	102	100	3.4	4.38	5.3016
18	2,3,4-Trichlorophenol	------	93	95	97	95	106	104	103	100	102	102	101	3.5	4.19	5.3776
19	2-Fluorobiphenyl	119	108	103	100	96	102	98	96	94	95	95	94	5.3	7.44	5.3709
20	Biphenyl	118	106	102	100	97	102	98	97	94	96	96	94	4.7	6.67	5.4874
21	2,6-Dimethylnaphthalene	113	104	100	99	97	104	100	98	95	97	97	96	3.5	5.05	5.6746
22	Acenaphthylene	111	101	99	98	97	105	102	99	96	98	98	96	3.1	4.35	6.0002
23	Acenaphthene	120	110	103	101	97	102	99	95	93	94	94	92	6	8.26	6.2081
24	2,3,5-Trimethylnaphthalene	114	104	101	99	97	104	100	98	95	97	96	94	4	5.55	6.6692
25	Fluorene	113	103	102	101	97	104	101	99	94	97	96	94	4	5.41	6.8267
26	Phenanthrene-d10	1	1	1	1	1	1	1	1	1	1	1	1	1	0	7.9040
27	Azobenzene	106	97	96	95	98	102	100	102	100	100	101	102	2.3	3.03	7.0206
28	2,4,6-Tribromophenol	------	88	87	93	94	104	104	107	105	105	106	105	6.8	7.99	7.1070
29	Hexachlorobenzene	120	110	104	98	98	99	97	96	95	94	94	94	5.8	7.94	7.4676
30	Pentachlorophenol	------	------	77	82	88	100	104	108	109	109	110	111	10.5	12.95	7.6874
31	Phenanthrene	122	109	105	99	95	100	97	96	95	94	94	94	5.9	8.40	7.9287
32	Anthracene	118	101	101	97	95	101	99	99	98	97	97	97	3.5	5.97	7.9859
33	Carbazole	99	94	93	94	98	104	103	103	104	102	103	103	3.5	4.14	8.1635
34	1-Methylphenanthrene	110	98	99	98	97	103	100	100	101	98	98	98	2.3	3.47	8.5992
35	Fluoranthene	129	96	95	93	95	100	98	99	102	98	98	98	5.1	9.53	9.2054
36	Pyrene	105	96	95	95	99	103	101	102	104	100	100	100	2.4	3.16	9.4407
37	Terphenyl-d14	104	97	95	94	101	102	100	101	105	100	100	100	2.3	3.28	9.6075
38	Benzo(a)anthracene	110	102	92	92	102	100	99	100	107	98	99	99	3.5	5.1	10.6673
39	Chrysene	112	102	101	97	103	99	98	98	104	96	96	95	3.6	4.80	10.7021
40	bis(2-Ethylhexyl)phthalate	------	------	75	81	96	101	103	108	115	106	108	108	9.7	12.77	10.6887
41	Perylene-d12	1	1	1	1	1	1	1	1	1	1	1	1	1	0	12.0682
42	Benzo(b)fluoranthene	107	96	95	95	95	104	100	104	101	100	103	100	3.2	4.02	11.6852
43	Benzo(k)fluoranthene	97	96	102	96	95	104	105	100	100	102	99	103	2.7	3.30	11.7108
44	Benzo(e)pyrene	110	101	101	96	95	102	100	100	99	99	99	100	2.1	3.58	11.9541
45	Benzo(a)pyrene	102	93	97	93	94	103	103	103	103	102	103	103	3.7	4.19	12.0073
46	Perylene	111	106	105	98	96	100	98	97	97	97	97	97	3.8	4.82	12.0933
47	Indeno(1,2,3-cd)pyrene	118	99	97	92	93	100	99	100	101	100	100	102	3.6	6.47	13.3173
48	Dibenzo(a,h)anthracene	103	95	98	93	95	102	101	102	103	102	102	104	3	3.62	13.3378
49	Benzo(g,h,i)perylene	111	103	100	93	94	100	99	100	101	99	99	101	2.6	4.34	13.6927

3016

4-15-11

Quantitation Limit from Lowest Initial Calibration Concentration

Instrument ID :E4 Column Spec :ZB-5MS ID :0.18MM
Beginning DateTime :04/01/11 09:22 Ending DateTime :04/01/11 12:47
IC File :RDJ006 HPChem Method :SVE4D01S

WATER Init. Vol. (ml) : 1000 Final Vol. (ml) : 1
SOIL Init. Weight (gm) : 30 Final Vol. (ml) : 1

IDX	Parameters	ON_COL MG/L	WATER UG/L	SOIL MG/KG	R_FILE
1	1,4-Dichlorobenzene-d4	IntSTD	IntSTD	IntSTD	IntSTD
2	N-nitrosodimethylamine	.075	.075	.0025	RDJ014
3	2-Fluorophenol	.075	.075	.0025	RDJ014
4	Phenol-d5	.075	.075	.0025	RDJ014
5	Phenol	.075	.075	.0025	RDJ014
6	bis(2-chloroethyl)ether	.075	.075	.0025	RDJ014
7	2-Chlorophenol	.075	.075	.0025	RDJ014
8	N-Nitroso-di-n-propylamine	.075	.075	.0025	RDJ014
9	Nitrobenzene-d5	.075	.075	.0025	RDJ014
10	2,4-Dimethylphenol	.075	.075	.0025	RDJ014
11	2,4-Dichlorophenol	.075	.075	.0025	RDJ014
12	Naphthalene	.075	.075	.0025	RDJ014
13	4-Chloro-3-methylphenol	.075	.075	.0025	RDJ014
14	2-Methylnaphthalene	.075	.075	.0025	RDJ014
15	1-Methylnaphthalene	.075	.075	.0025	RDJ014
16	2,4,6-Trichlorophenol	.15	.15	.005	RDJ013
17	2,4,5-Trichlorophenol	.15	.15	.005	RDJ013
18	2,3,4-Trichlorophenol	.15	.15	.005	RDJ013
19	2-Fluorobiphenyl	.075	.075	.0025	RDJ014
20	Biphenyl	.075	.075	.0025	RDJ014
21	2,6-Dimethylnaphthalene	.075	.075	.0025	RDJ014
22	Acenaphthylene	.075	.075	.0025	RDJ014
23	Acenaphthene	.075	.075	.0025	RDJ014
24	2,3,5-Trimethylnaphthalene	.075	.075	.0025	RDJ014
25	Fluorene	.075	.075	.0025	RDJ014
26	Phenanthrene-d10	IntSTD	IntSTD	IntSTD	IntSTD
27	Azobenzene	.075	.075	.0025	RDJ014
28	2,4,6-Tribromophenol	.15	.15	.005	RDJ013
29	Hexachlorobenzene	.075	.075	.0025	RDJ014
30	Pentachlorophenol	.5	.5	.01667	RDJ012
31	Phenanthrene	.075	.075	.0025	RDJ014
32	Anthracene	.075	.075	.0025	RDJ014
33	Carbazole	.075	.075	.0025	RDJ014
34	1-Methylphenanthrene	.075	.075	.0025	RDJ014
35	Fluoranthene	.075	.075	.0025	RDJ014
36	Pyrene	.075	.075	.0025	RDJ014
37	Terphenyl-d14	.075	.075	.0025	RDJ014
38	Benzo(a)anthracene	.075	.075	.0025	RDJ014
39	Chrysene	.075	.075	.0025	RDJ014
40	bis(2-Ethylhexyl)phthalate	.5	.5	.01667	RDJ012
41	Perylene-d12	IntSTD	IntSTD	IntSTD	IntSTD
42	Benzo(b)fluoranthene	.075	.075	.0025	RDJ014
43	Benzo(k)fluoranthene	.075	.075	.0025	RDJ014
44	Benzo(e)pyrene	.075	.075	.0025	RDJ014
45	Benzo(a)pyrene	.075	.075	.0025	RDJ014
46	Perylene	.075	.075	.0025	RDJ014
47	Indeno(1,2,3-cd)pyrene	.075	.075	.0025	RDJ014
48	Dibenzo(a,h)anthracene	.075	.075	.0025	RDJ014
49	Benzo(g,h,i)perylene	.075	.075	.0025	RDJ014

JM
4-15-11

Quantitation Limit from Lowest Initial Calibration Concentration

Instrument ID :E4 Column Spec :ZB-5MS ID :0.18MM
Beginning DateTime :04/01/11 09:22 Ending DateTime :04/01/11 12:47
IC File :RDJ006 HPChem Method :SVE4D01S

WATER Init. Vol. (ml) : 1000 Final Vol. (ml) : 2
SOIL Init. Weight (gm) : 30 Final Vol. (ml) : 2

IDX	Parameters	ON_COL MG/L	WATER UG/L	SOIL MG/KG	R_FILE
1	1,4-Dichlorobenzene-d4	IntSTD	IntSTD	IntSTD	IntSTD
2	N-nitrosodimethylamine	.075	.15	.005	RDJ014
3	2-Fluorophenol	.075	.15	.005	RDJ014
4	Phenol-d5	.075	.15	.005	RDJ014
5	Phenol	.075	.15	.005	RDJ014
6	bis(2-chloroethyl)ether	.075	.15	.005	RDJ014
7	2-Chlorophenol	.075	.15	.005	RDJ014
8	N-Nitroso-di-n-propylamine	.075	.15	.005	RDJ014
9	Nitrobenzene-d5	.075	.15	.005	RDJ014
10	2,4-Dimethylphenol	.075	.15	.005	RDJ014
11	2,4-Dichlorophenol	.075	.15	.005	RDJ014
12	Naphthalene	.075	.15	.005	RDJ014
13	4-Chloro-3-methylphenol	.075	.15	.005	RDJ014
14	2-Methylnaphthalene	.075	.15	.005	RDJ014
15	1-Methylnaphthalene	.075	.15	.005	RDJ014
16	2,4,6-Trichlorophenol	.15	.3	.01	RDJ013
17	2,4,5-Trichlorophenol	.15	.3	.01	RDJ013
18	2,3,4-Trichlorophenol	.15	.3	.01	RDJ013
19	2-Fluorobiphenyl	.075	.15	.005	RDJ014
20	Biphenyl	.075	.15	.005	RDJ014
21	2,6-Dimethylnaphthalene	.075	.15	.005	RDJ014
22	Acenaphthylene	.075	.15	.005	RDJ014
23	Acenaphthene	.075	.15	.005	RDJ014
24	2,3,5-Trimethylnaphthalene	.075	.15	.005	RDJ014
25	Fluorene	.075	.15	.005	RDJ014
26	Phenanthrene-d10	IntSTD	IntSTD	IntSTD	IntSTD
27	Azobenzene	.075	.15	.005	RDJ014
28	2,4,6-Tribromophenol	.15	.3	.01	RDJ013
29	Hexachlorobenzene	.075	.15	.005	RDJ014
30	Pentachlorophenol	.5	1	.03333	RDJ012
31	Phenanthrene	.075	.15	.005	RDJ014
32	Anthracene	.075	.15	.005	RDJ014
33	Carbazole	.075	.15	.005	RDJ014
34	1-Methylphenanthrene	.075	.15	.005	RDJ014
35	Fluoranthene	.075	.15	.005	RDJ014
36	Pyrene	.075	.15	.005	RDJ014
37	Terphenyl-d14	.075	.15	.005	RDJ014
38	Benzo(a)anthracene	.075	.15	.005	RDJ014
39	Chrysene	.075	.15	.005	RDJ014
40	bis(2-Ethylhexyl)phthalate	.5	1	.03333	RDJ012
41	Perylene-d12	IntSTD	IntSTD	IntSTD	IntSTD
42	Benzo(b)fluoranthene	.075	.15	.005	RDJ014
43	Benzo(k)fluoranthene	.075	.15	.005	RDJ014
44	Benzo(e)pyrene	.075	.15	.005	RDJ014
45	Benzo(a)pyrene	.075	.15	.005	RDJ014
46	Perylene	.075	.15	.005	RDJ014
47	Indeno(1,2,3-cd)pyrene	.075	.15	.005	RDJ014
48	Dibenzo(a,h)anthracene	.075	.15	.005	RDJ014
49	Benzo(g,h,i)perylene	.075	.15	.005	RDJ014

4-15-11

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:ICAL
SDG No.: ICAL
Date Analyzed: 04/01/11
Time Analyzed: 10:18

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	191166	2.96	0	0.00	0	0.00
	UPPER LIMIT	382332	3.46	0	0.50	0	0.50
	LOWER LIMIT	95583	2.46	0	-0.50	0	-0.50
	SAMPLE ID						
1	SVE4D0112	173053	2.95	0	0.00	0	0.00
2	SVE4D0111	174599	2.95	0	0.00	0	0.00
3	SVE4D0110	176412	2.96	0	0.00	0	0.00
4	SVE4D019	196264	2.96	0	0.00	0	0.00
5	SVE4D018	206592	2.95	0	0.00	0	0.00
6	SVE4D017	194820	2.96	0	0.00	0	0.00
7	SVE4D016	190849	2.96	0	0.00	0	0.00
8	SVE4D015	192189	2.96	0	0.00	0	0.00
9	SVE4D013	184066	2.96	0	0.00	0	0.00
10	SVE4D012	180861	2.96	0	0.00	0	0.00
11	SVE4D011	187541	2.96	0	0.00	0	0.00
12	ISVE4D011	178125	2.95	0	0.00	0	0.00

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII SV-1 OLM02.0

JW 4-15-11

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :E4
IC_Beginning DateTime :04/01/11 09:22
Spike Amount :25 PPM
CC/CV File :RDJ015
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
IC_Ending DateTime :04/01/11 12:47
HPChem Method :SVE4D01S
Date_Time :04/01/11 13:46

M IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
1	1,4-Dichlorobenzene-d4	40.000	0	178125	1	1	2.955	2.957	0				
2	N-nitrosodimethylamine	23.488	-6.0	48401	0.435	0.463	1.442	1.447	1.94				
3	2-Fluorophenol												
4	Phenol-d5												
5	Phenol	23.530	-5.9	126296	1.134	1.205	2.620	2.620	5.68				
6	bis(2-chloroethyl)ether	21.671	-13.3	90568	0.814	0.938	2.716	2.717	7.56				
7	2-Chlorophenol	23.748	-5.0	148419	1.333	1.403	2.782	2.783	4.42				
8	N-Nitroso-di-n-propylamine	22.964	-8.1	55413	0.498	0.542	3.280	3.279	4.97				
9	Nitrobenzene-d5												
10	2,4-Dimethylphenol	23.900	-4.4	119731	1.075	1.125	3.780	3.781	2.82				
11	2,4-Dichlorophenol	24.065	-3.7	124170	1.115	1.159	3.999	4.000	6.31				
12	Naphthalene	23.141	-7.4	426972	3.835	4.143	4.187	4.187	7.93				
13	4-Chloro-3-methylphenol	25.169	0.7	106190	0.954	0.947	4.753	4.754	3.76				
14	2-Methylnaphthalene	25.880	3.5	300829	2.702	2.610	4.949	4.950	6.09				
15	1-Methylnaphthalene	23.159	-7.4	277051	2.489	2.686	5.063	5.063	6.09				
16	2,4,6-Trichlorophenol	25.037	0.1	92233	0.828	0.827	5.265	5.265	2.94				
17	2,4,5-Trichlorophenol	24.914	-0.3	98055	0.881	0.884	5.303	5.302	4.38				
18	2,3,4-Trichlorophenol	27.286	9.1	93597	0.841	0.770	5.380	5.378	4.19				
19	2-Fluorobiphenyl												
20	Biphenyl	25.460	1.8	390837	3.511	3.447	5.489	5.487	6.67				
21	2,6-Dimethylnaphthalene	25.779	3.1	275233	2.472	2.398	5.677	5.675	5.05				
22	Acenaphthylene	24.330	-2.7	458084	4.115	4.228	6.000	6.000	4.35				
23	Acenaphthene	22.984	-8.1	277138	2.489	2.708	6.209	6.208	8.26				
24	2,3,5-Trimethylnaphthalene	27.067	8.3	251384	2.258	2.086	6.672	6.669	5.55				
25	Fluorene	23.660	-5.4	304355	2.734	2.889	6.828	6.827	5.41				
26	Phenanthrene-d10	40.000	0	662489	1	1	7.906	7.904	0				
27	Azobenzene	25.409	1.6	204916	0.495	0.487	7.022	7.021	3.03				
28	2,4,6-Tribromophenol												
29	Hexachlorobenzene	22.583	-9.7	102809	0.248	0.275	7.468	7.468	7.94				
30	Pentachlorophenol	25.301	1.2	59437	0.144	0.142	7.688	7.687	12.95				
31	Phenanthrene	21.974	-12.1	442968	1.070	1.217	7.931	7.929	8.40				
32	Anthracene	22.115	-11.5	442070	1.068	1.207	7.985	7.986	5.97				
33	Carbazole	23.813	-4.7	407315	0.984	1.033	8.165	8.163	4.14				
34	1-Methylphenanthrene	25.167	0.7	332546	0.803	0.798	8.601	8.599	3.47				
35	Fluoranthene	23.328	-6.7	437153	1.056	1.131	9.208	9.205	9.53				
36	Pyrene	22.959	-8.2	455397	1.100	1.198	9.443	9.441	3.16				
37	Terphenyl-d14												
38	Benzo(a)anthracene	22.704	-9.2	395287	0.955	1.187	10.671	10.667	26.46	0.0017	1.0481		0.9996
39	Chrysene	22.136	-11.5	378129	0.913	1.031	10.708	10.702	4.80				
40	bis(2-Ethylhexyl)phthalate	25.419	1.7	324290	0.783	0.770	10.689	10.689	12.77				
41	Perylene-d12	40.000	0	579377	1	1	12.071	12.068	0				
42	Benzo(b)fluoranthene	23.281	-6.9	379926	1.049	1.127	11.690	11.685	4.02				
43	Benzo(k)fluoranthene	23.063	-7.7	445255	1.230	1.333	11.715	11.711	3.30				
44	Benzo(e)pyrene	24.892	-0.4	411453	1.136	1.141	11.956	11.954	3.58				
45	Benzo(a)pyrene	23.085	-7.7	353051	0.975	1.056	12.011	12.007	4.19				
46	Perylene	23.784	-4.9	405846	1.121	1.178	12.098	12.093	4.82				
47	Indeno(1,2,3-cd)pyrene	23.408	-6.4	427105	1.179	1.260	13.326	13.317	6.47				
48	Dibenzo(a,h)anthracene	23.946	-4.2	355123	0.981	1.024	13.342	13.338	3.62				
49	Benzo(g,h,i)perylene	23.220	-7.1	355915	0.983	1.058	13.697	13.693	4.34				

4-15-11

DAILY CALIBRATIONS

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ180
Instrument ID: TOE4

Project: TAR CREEK OU4
SDG No.: 11D182
DFTPP Injection Date: 04/21/11
DFTPP Injection Time: 15:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.46
68	Less than 2% of mass 69	0.56(1.6)1
69	Relative abundance of mass 198	35.85
70	Less than 2.0% of mass 69	0.00(0.0)1
127	40.0 - 60.0% of mass 198	54.75
197	Less than 1.0% of mass 198	0.00
198	Base Peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.15
275	10.0 - 30.0% of mass 198	21.57
365	Greater than 1.00% of mass 198	3.08
441	Present, but less than mass 443	15.43(78.1)3
442	Greater than 40.0% of mass 198	93.31
443	17.0 - 23.0% of mass 442	19.75(21.2)2

1-Value is % mass 69 2-Value is % mass 442
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD025	CSVE4D0110	RDJ181	04/21/11	15:37
2	MBLK1S	SVD025SB	RDJ183	04/21/11	16:17
3	LCS1S	SVD025SL	RDJ184	04/21/11	16:36
4	LCD1S	SVD025SC	RDJ185	04/21/11	16:54
5	FAIRLAND	D182-14	RDJ187	04/21/11	17:32

FORM V SV OLM02.0

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:TAR CREEK OU4
SDG No.: 11D182
Date Analyzed: 04/01/11
Time Analyzed: 10:18

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	191166	2.96	0	0.00	0	0.00
	UPPER LIMIT	382332	3.46	0	0.50	0	0.50
	LOWER LIMIT	95583	2.46	0	-0.50	0	-0.50
	SAMPLE ID						
1	SSTD025	182692	2.96	0	0.00	0	0.00
2	MBLK1S	193348	2.95	0	0.00	0	0.00
3	LCS1S	188069	2.96	0	0.00	0	0.00
4	LCD1S	185737	2.96	0	0.00	0	0.00
5	FAIRLAND	196517	2.95	0	0.00	0	0.00

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RDJ006
Instrument ID: TOE4

Project:TAR CREEK OU4
SDG No.: 11D182
Date Analyzed: 04/01/11
Time Analyzed: 10:18

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	659134	7.90	0	0.00	635896	12.07
	UPPER LIMIT	1318268	8.40	0	0.50	1271792	12.57
	LOWER LIMIT	329567	7.40	0	-0.50	317948	11.57
	SAMPLE ID						
1	SSTD025	662032	7.91	0	0.00	592468	12.07
2	MBLK1S	685197	7.90	0	0.00	666061	12.07
3	LCS1S	699691	7.91	0	0.00	605236	12.07
4	LCD1S	663635	7.90	0	0.00	591969	12.06
5	FAIRLAND	727488	7.90	0	0.00	715319	12.06

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal satndard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :E4
IC_Beginning DateTime :04/01/11 09:22
Spike Amount :25 PPM
CC/CV File :RDJ181
IC File :RDJ006

Column Spec :ZB-5MS ID :0.18MM
IC_Ending DateTime :04/01/11 12:47
HPChem Method :SVE4D01S
Date_Time :04/21/11 15:37

M IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
1	1,4-Dichlorobenzene-d4	40.000	0	182692	1	1	2.958	2.957	0				
2	N-nitrosodimethylamine	27.390	9.6	57890	0.507	0.463	1.446	1.447	1.94				
3	2-Fluorophenol	25.251	1.0	123474	1.081	1.071	2.034	2.034	4.32				
4	Phenol-d5	26.163	4.7	144496	1.265	1.209	2.612	2.609	3.30				
5	Phenol	26.741	7.0	147212	1.289	1.205	2.625	2.620	5.68				
6	bis(2-chloroethyl)ether	24.964	-0.1	107005	0.937	0.938	2.716	2.717	7.56				
7	2-Chlorophenol	25.246	1.0	161829	1.417	1.403	2.782	2.783	4.42				
8	N-Nitroso-di-n-propylamine	27.652	10.6	68435	0.599	0.542	3.280	3.279	4.97				
9	Nitrobenzene-d5	28.252	13.0	119333	1.045	0.925	3.442	3.438	3.38				
10	2,4-Dimethylphenol	26.677	6.7	137066	1.200	1.125	3.783	3.781	2.82				
11	2,4-Dichlorophenol	26.239	5.0	138858	1.216	1.159	4.003	4.000	6.31				
12	Naphthalene	24.211	-3.2	458164	4.013	4.143	4.187	4.187	7.93				
13	4-Chloro-3-methylphenol	27.463	9.9	118840	1.041	0.947	4.758	4.754	3.76				
14	2-Methylnaphthalene	24.502	-2.0	292110	2.558	2.610	4.948	4.950	6.09				
15	1-Methylnaphthalene	24.551	-1.8	301230	2.638	2.686	5.063	5.063	6.09				
16	2,4,6-Trichlorophenol	25.681	2.7	97033	0.850	0.827	5.265	5.265	2.94				
17	2,4,5-Trichlorophenol	25.814	3.3	104203	0.913	0.884	5.303	5.302	4.38				
18	2,3,4-Trichlorophenol	25.954	3.8	91310	0.800	0.770	5.379	5.378	4.19				
19	2-Fluorobiphenyl	24.721	-1.1	346664	3.036	3.070	5.374	5.371	7.44				
20	Biphenyl	24.914	-0.3	392263	3.435	3.447	5.489	5.487	6.67				
21	2,6-Dimethylnaphthalene	25.167	0.7	275589	2.414	2.398	5.673	5.675	5.05				
22	Acenaphthylene	24.840	-0.6	479674	4.201	4.228	6.003	6.000	4.35				
23	Acenaphthene	24.585	-1.7	304042	2.663	2.708	6.209	6.208	8.26				
24	2,3,5-Trimethylnaphthalene	24.969	-0.1	237847	2.083	2.086	6.671	6.669	5.55				
25	Fluorene	25.329	1.3	334172	2.927	2.889	6.828	6.827	5.41				
26	Phenanthrene-d10	40.000	0	662032	1	1	7.907	7.904	0				
27	Azobenzene	27.934	11.7	225124	0.544	0.487	7.022	7.021	3.03				
28	2,4,6-Tribromophenol	27.515	10.1	58618	0.142	0.129	7.109	7.107	7.99				
29	Hexachlorobenzene	24.651	-1.4	112145	0.271	0.275	7.468	7.468	7.94				
30	Pentachlorophenol	28.259	13.0	66340	0.160	0.142	7.688	7.687	12.95				
31	Phenanthrene	24.331	-2.7	490150	1.185	1.217	7.932	7.929	8.40				
32	Anthracene	24.950	-0.2	498402	1.205	1.207	7.986	7.986	5.97				
33	Carbazole	26.160	4.6	447157	1.081	1.033	8.165	8.163	4.14				
34	1-Methylphenanthrene	24.639	-1.4	325339	0.786	0.798	8.602	8.599	3.47				
35	Fluoranthene	26.079	4.3	488358	1.180	1.131	9.208	9.205	9.53				
36	Pyrene	26.407	5.6	523423	1.265	1.198	9.444	9.441	3.16				
37	Terphenyl-d14	26.314	5.3	293174	0.709	0.673	9.607	9.608	3.28				
38	Benzo(a)anthracene	25.845	3.4	449501	1.086	1.187	10.667	10.667	26.46	0.0017	1.0481		0.9996
39	Chrysene	25.344	1.4	432635	1.046	1.031	10.704	10.702	4.80				
40	bis(2-Ethylhexyl)phthalate	26.396	5.6	336524	0.813	0.770	10.685	10.689	12.77				
41	Perylene-d12	40.000	0	592468	1	1	12.071	12.068	0				
42	Benzo(b)fluoranthene	25.717	2.9	429171	1.159	1.127	11.687	11.685	4.02				
43	Benzo(k)fluoranthene	25.752	3.0	508394	1.373	1.333	11.711	11.711	3.30				
44	Benzo(e)pyrene	25.002	0.0	422620	1.141	1.141	11.957	11.954	3.58				
45	Benzo(a)pyrene	25.746	3.0	402637	1.087	1.056	12.011	12.007	4.19				
46	Perylene	24.229	-3.1	422769	1.142	1.178	12.093	12.093	4.82				
47	Indeno(1,2,3-cd)pyrene	24.697	-1.2	460811	1.244	1.260	13.321	13.317	6.47				
48	Dibenzo(a,h)anthracene	25.017	0.1	379393	1.025	1.024	13.338	13.338	3.62				
49	Benzo(g,h,i)perylene	24.486	-2.1	383796	1.036	1.058	13.698	13.693	4.34				

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:56:12 2011
Quant Results File: SVE4D01S.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01S.M
Quant Title : SEMIVOLATILES - SIM
QLast Update : Fri Apr 01 14:30:31 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	96	0.00
2	T	N-nitrosodimethylamine	25.000	27.390	-9.6	105	0.00
3	S	2-Fluorophenol	25.000	25.252	-1.0	98	0.00
4	S	Phenol-d5	25.000	26.163	-4.7	102	0.00
5	T	Phenol	25.000	26.741	-7.0	105	0.00
6	T	bis(2-chloroethyl)ether	25.000	24.964	0.1	101	0.00
7	T	2-Chlorophenol	25.000	25.246	-1.0	99	0.00
8	P	N-Nitroso-di-n-propylamine	25.000	27.652	-10.6	109	0.00
9	S	Nitrobenzene-d5	25.000	28.252	-13.0	110	0.00
10	T	2,4-Dimethylphenol	25.000	26.677	-6.7	103	0.00
11	T	2,4-Dichlorophenol	25.000	26.239	-5.0	102	0.00
12	T	Naphthalene	25.000	24.211	3.2	98	0.00
13	T	4-Chloro-3-methylphenol	25.000	27.463	-9.9	105	0.00
14	T	2-Methylnaphthalene	25.000	24.502	2.0	98	0.00
15	T	1-Methylnaphthalene	25.000	24.551	1.8	99	0.00
16	T	2,4,6-Trichlorophenol	25.000	25.681	-2.7	99	0.00
17	T	2,4,5-Trichlorophenol	25.000	25.814	-3.3	99	0.00
18	T	2,3,4-Trichlorophenol	25.000	25.953	-3.8	99	0.00
19	S	2-Fluorobiphenyl	25.000	24.721	1.1	101	0.00
20	T	Biphenyl	25.000	24.914	0.3	101	0.00
21	T	2,6-Dimethylnaphthalene	25.000	25.167	-0.7	101	0.00
22	T	Acenaphthylene	25.000	24.840	0.6	99	0.00
23	C	Acenaphthene	25.000	24.585	1.7	101	0.00
24	T	2,3,5-Trimethylnaphthalene	25.000	24.969	0.1	101	0.00
25	T	Fluorene	25.000	25.329	-1.3	103	0.00
26	I	Phenanthrene-d10	40.000	40.000	0.0	100	0.00
27	T	Azobenzene	25.000	27.934	-11.7	112	0.00
28	S	2,4,6-Tribromophenol	25.000	27.515	-10.1	106	0.00
29	T	Hexachlorobenzene	25.000	24.651	1.4	104	0.00
30	T	Pentachlorophenol	25.000	28.259	-13.0	104	0.00
31	T	Phenanthrene	25.000	24.331	2.7	103	0.00
32	T	Anthracene	25.000	24.950	0.2	103	0.00
33	T	Carbazole	25.000	26.160	-4.6	101	0.00
34	T	1-Methylphenanthrene	25.000	24.639	1.4	98	0.00
35	C	Fluoranthene	25.000	26.079	-4.3	103	0.00
36	T	Pyrene	25.000	26.407	-5.6	102	0.00
37	S	Terphenyl-d14	25.000	26.314	-5.3	100	0.00
38	T	Benzo(a)anthracene	25.000	25.845	-3.4	97	0.00
39	T	Chrysene	25.000	25.344	-1.4	98	0.00
40	T	bis(2-Ethylhexyl)phthalate	25.000	26.396	-5.6	92	0.00
41	I	Perylene-d12	40.000	40.000	0.0	93	0.00
42	T	Benzo(b)fluoranthene	25.000	25.717	-2.9	95	0.00
43	T	Benzo(k)fluoranthene	25.000	25.752	-3.0	96	0.00
44	T	Benzo(e)pyrene	25.000	25.002	-0.0	94	0.00
45	C	Benzo(a)pyrene	25.000	25.746	-3.0	94	0.00
46	T	Perylene	25.000	24.229	3.1	93	0.00
47	T	Indeno(1,2,3-cd)pyrene	25.000	24.697	1.2	91	0.00

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:56:12 2011
Quant Results File: SVE4D01S.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01S.M
Quant Title : SEMIVOLATILES - SIM
QLast Update : Fri Apr 01 14:30:31 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	T	Dibenzo(a,h)anthracene	25.000	25.017	-0.1	90	0.00
49	T	Benzo(g,h,i)perylene	25.000	24.486	2.1	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:56:12 2011
Quant Results File: SVE4D01S.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01S.M
Quant Title : SEMIVOLATILES - SIM
QLast Update : Fri Apr 01 14:30:31 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2	T	N-nitrosodimethylamine	0.463	0.507	-9.5	105	0.00
3	S	2-Fluorophenol	1.071	1.081	-0.9	98	0.00
4	S	Phenol-d5	1.209	1.265	-4.6	102	0.00
5	T	Phenol	1.205	1.289	-7.0	105	0.00
6	T	bis(2-chloroethyl)ether	0.938	0.937	0.1	101	0.00
7	T	2-Chlorophenol	1.403	1.417	-1.0	99	0.00
8	P	N-Nitroso-di-n-propylamine	0.542	0.599	-10.5	109	0.00
9	S	Nitrobenzene-d5	0.925	1.045	-13.0	110	0.00
10	T	2,4-Dimethylphenol	1.125	1.200	-6.7	103	0.00
11	T	2,4-Dichlorophenol	1.159	1.216	-4.9	102	0.00
12	T	Naphthalene	4.143	4.013	3.1	98	0.00
13	T	4-Chloro-3-methylphenol	0.947	1.041	-9.9	105	0.00
14	T	2-Methylnaphthalene	2.610	2.558	2.0	98	0.00
15	T	1-Methylnaphthalene	2.686	2.638	1.8	99	0.00
16	T	2,4,6-Trichlorophenol	0.827	0.850	-2.8	99	0.00
17	T	2,4,5-Trichlorophenol	0.884	0.913	-3.3	99	0.00
18	T	2,3,4-Trichlorophenol	0.770	0.800	-3.9	99	0.00
19	S	2-Fluorobiphenyl	3.070	3.036	1.1	101	0.00
20	T	Biphenyl	3.447	3.435	0.3	101	0.00
21	T	2,6-Dimethylnaphthalene	2.398	2.414	-0.7	101	0.00
22	T	Acenaphthylene	4.228	4.201	0.6	99	0.00
23	C	Acenaphthene	2.708	2.663	1.7	101	0.00
24	T	2,3,5-Trimethylnaphthalene	2.086	2.083	0.1	101	0.00
25	T	Fluorene	2.889	2.927	-1.3	103	0.00
26	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
27	T	Azobenzene	0.487	0.544	-11.7	112	0.00
28	S	2,4,6-Tribromophenol	0.129	0.142	-10.1	106	0.00
29	T	Hexachlorobenzene	0.275	0.271	1.5	104	0.00
30	T	Pentachlorophenol	0.142	0.160	-12.7	104	0.00
31	T	Phenanthrene	1.217	1.185	2.6	103	0.00
32	T	Anthracene	1.207	1.205	0.2	103	0.00
33	T	Carbazole	1.033	1.081	-4.6	101	0.00
34	T	1-Methylphenanthrene	0.798	0.786	1.5	98	0.00
35	C	Fluoranthene	1.131	1.180	-4.3	103	0.00
36	T	Pyrene	1.198	1.265	-5.6	102	0.00
37	S	Terphenyl-d14	0.673	0.709	-5.3	100	0.00
38	T	Benzo(a)anthracene	1.187	1.086	8.5	97	0.00
39	T	Chrysene	1.031	1.046	-1.5	98	0.00
40	T	bis(2-Ethylhexyl)phthalate	0.770	0.813	-5.6	92	0.00
41	I	Perylene-d12	1.000	1.000	0.0	93	0.00
42	T	Benzo(b)fluoranthene	1.127	1.159	-2.8	95	0.00
43	T	Benzo(k)fluoranthene	1.333	1.373	-3.0	96	0.00
44	T	Benzo(e)pyrene	1.141	1.141	0.0	94	0.00
45	C	Benzo(a)pyrene	1.056	1.087	-2.9	94	0.00
46	T	Perylene	1.178	1.142	3.1	93	0.00
47	T	Indeno(1,2,3-cd)pyrene	1.260	1.244	1.3	91	0.00

Evaluate Continuing Calibration Report

Data File : D:\DATA\11D21\RDJ181.D
Acq On : 21 Apr 2011 15:37
Sample : CSVE4D0110
Misc :
Integrator: RTE
Quant Time: Apr 21 15:56:12 2011
Quant Results File: SVE4D01S.RES
Quant Method : C:\msdchem\1\METHODS\SVE4D01S.M
Quant Title : SEMIVOLATILES - SIM
QLast Update : Fri Apr 01 14:30:31 2011
Response via : Initial Calibration
DataAcq Meth:SVE4D01S.M

Vial: 3
Operator: DC
Inst : E4
Multiplr: 1.00

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48 T	Dibenzo(a,h)anthracene	1.024	1.025	-0.1	90	0.00
49 T	Benzo(g,h,i)perylene	1.058	1.036	2.1	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR SEMIVOLATILES

SOP ☑ EMAX-8270 Rev. No. 4 ☐ EMAX-8270SIM Rev. No. 1 ☐ EMAX-CLPSVOA ☐ EMAX-M8270SIM Rev. No. 1 ☐ EMAX-625 Rev. No. 0 ☐ Book #AE4 -008

Method File: SVE4D01S Tune File: DFTPP Start Date/Time: 4/1/11 9:10 End Date/Time: 4/1/11

ANALYTICAL BATCH: SVE4D014

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
NA	RDJ001	IBE4D0101	X			
	2	DFTE4D0101				
	3	SVE4D011				50ppm 8270
	4	2				40
	5	3				30
	6	4				25
	7	5				20
	8	6				10
	9	7				5
	10	8				2
	11	9				1
	12	10				0.5
	13	11				0.15
	14	12				0.075
	15	ISVE4D011	✓			ICV
	16	SVE4D01A1	X			50ppm Benzidine
	17	2				40
	18	3				30
	19	4				25
	20	5				10
	21	6				5
	22	7				2
	23	ISVE4D01A1	✓			ICV
		KV 4/1/11				

Instrument No:	E4
INITIAL CALIBRATION REFERENCE	
Date	4/1/11
ICAL ID	SVE4D01/01A/01S

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2C-09-2-1	50
INT. STD.	SS2B-07-51-3	2000
ICV	SS2C-09-4-3	25
DCC	SS2C-09-4-1	0.075-25
BENZIDINE	SS2C-09-3-2	2-50
APP 9		
APP 9 ADD		
Ben ICV	SS2C-09-3-3	25
8270	SS2C-09-4-2	30-50

Solvent	ID	
CH_2Cl_2	502944	

DATA FILE	11D01

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/TOE4	

Comments:

Analyzed By: KV

Date Disposed: NA

Disposed By: NA

This page is checked during data review.

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR SEMIVOLATILES

SOP [Y] EMAX-8270 Rev. No. 4 [ ] EMAX-8270SIM Rev. No. 1 [ ] EMAX-CLPSVOA [ ] EMAX-M8270SIM Rev. No. 1 [ ] EMAX-625 Rev. No. 0 [ ]

Book #AE4 -008

Method File: SVE4D01S Tune File: DFTPP Start Date/Time: 4/21/11 15:26 End Date/Time: 4/21/11 18:28

Preparative Batch	Data File Name	Run ID	DF	Matrix S	Matrix W	Notes
	RDJ179	1BE4D0110				
	180	DFTE4D0110				
	181	CSVE4D0110				
	182	CSVE4D01A10				
SVD025S	183	SVD025SB	1	x		
	184	SL				
	185	SC				
SVD020W	186	11D159-01			x	
SVD025S	187	11D182-14		x		
SVD020W	RDJ188	11D159-01W	1		x	conf. only

DC

ANALYTICAL BATCH: CSVE4 DC 4/21/11 D0110

Instrument No:	E4

INITIAL CALIBRATION REFERENCE	
Date	4/1/11
ICAL ID	SVE4D01/01A/01S

Standards		
Name	ID	Conc. (mg/L)
DFTPP	SS2C-09-2-1	50
INT. STD.	SS2B-07-51-3	2000
ICV		
DCC	SS2C-09-4-1	25
BENZIDINE	SS2C-09-3-2	25
APP 9		
APP 9 ADD		

Solvent	ID
CH_2Cl_2	50294

DATA FILE	11D21

Electronic Data Archival	
Location	Date
HPCHEM_SVOA/TOE4	

Comments:

Analyzed By: DC

Date Disposed: 4/21/11

Disposed By: DC

This page is checked during data review.

30653

EXTRACTION LOGS

EMAX LABORATORIES, INC.

EXTRACTION LOG *for* SEMIVOLATILES

SOP	Rev. #
☐ EMAX-3510	1
☐ EMAX-3520	3
☐ EMAX-3540	1
☑ EMAX-3550	3
☐ EMAX-3580	1
☐ EMAX-CLP-SVOA	
☐ EMAX-	

Note: For samples and relevant QCs/Standards extracted, refer to attached extraction sequence.

Comments:

LAB SAMPLE ID	SONICATOR #	TURBO VAP # (35 °C)
SVD025-SB	4	1
-SL,SC	6	1
D182-14	4	1
D192-06,11	6	1
-11M,11S	6	2
D208-02	4	2
-08,12	6	2
-16	4	2

Book #: ESV-060

Preparation Batch: SVD025S

Matrix: SOIL

Standards	ID	Amount Added (ml)
Surrogate	SS2A-06-150	0.4
LCS/MS FULL LIST	SS2A-06-184	0.2
BENZOIC ACID	SS2B-07-52-3	0.2
Micropipette Check ID	PE00-04 (1000uL) PE97A-01 (200 uL)	

Reagent	Lot# / ID
CH_2Cl_2	50294
Na_2SO_4	SW1B-002-09-11
H_2SO_4	-
NaOH	-
Silica Sand	78686

TUNING

Sonicator #	Reading
4	472
6	257

Concentrator	Water Bath Temperature Setting (°C)	Thermometer Reading (°C)
1	35	35
2	35	35
3		
4		
5		
6		

Thermometer ID = T_1

Prepared By: JU Witnessed By: CS

Standard Added By: JU Checked By: JM

Extract Received By: DC 4/20/21 / 11 Location: SEC1#07

DC 4/21/11

Disposed By: Disposed On:

EMAX LABORATORIES, INC.

FileID: SVD025S

EXTRACTION LOG FOR SEMIVOLATILES

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Ve(ml)	ExpAmt	ExpVe(ml)	PrepFctr	Comments
11SVD025S01	SVD025SB	30	g	4/21/11 10:46	2	30	2	1	
11SVD025S02	SVD025SL	30	g	4/21/11 10:46	2	30	2	1	
11SVD025S03	SVD025SC	30	g	4/21/11 10:46	2	30	2	1	
11SVD025S04	D182-14	30.03	g	4/21/11 10:48	2	30	2	1	
11SVD025S05	D192-06	30.01	g	4/21/11 10:49	2	30	2	1	
11SVD025S06	D192-11	30.02	g	4/21/11 10:49	2	30	2	1	
11SVD025S07	D192-11M	30.02	g	4/21/11 10:50	2	30	2	1	
11SVD025S08	D192-11S	30.01	g	4/21/11 10:50	2	30	2	1	
11SVD025S09	D208-02	30.01	g	4/21/11 11:54	2	30	2	1	
11SVD025S10	D208-08	30.01	g	4/21/11 11:55	2	30	2	1	
11SVD025S11	D208-12	30	g	4/21/11 11:55	2	30	2	1	
11SVD025S12	D208-16	30.03	g	4/21/11 11:56	2	30	2	1	

Balance ID: 10203192. Calibration check was verified prior to use.

Ve=extract volume

PrepFctr=(ExpAmt/Aliquot)(Ve/ExpVe)

☑ Extraction Started @ 4/21/11 12:40 ☐ pHAdj(≤2) @

Prepared By: jvillena

☑ Extraction Ended @ 4/21/11 14:21 ☐ pHAdj(≥11) @

Checked By: JM

Comments:

Date 4/21/11

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LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METHOD 3550B/8081A
PESTICIDES

SDG#: 11D182

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

SW3550B/8081A
PESTICIDES

One (1) soil sample was received on 04/16/11 for Pesticides Organochlorine analysis, Method SW3550B/8081A in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument performance was checked prior to calibration. DDT and Endrin breakdown were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for CPD024SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter. Positive sample results were confirmed by a second column. Relative percentage difference (RPD) between the two results were evaluated. If RPD is less than 40% and peaks are well defined the higher result is reported. Where RPD is greater than 40% the chromatogram is checked for anomalies and results are selected based on processed knowledge. If there is no evidence of any chromatographic ambiguity, the higher result is reported.

LAB CHRONICLE
PESTICIDES

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : GCT008

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	CPD024SB	1	NA	04/21/1119:57	04/21/1112:37	SD21019A	SD21017A	CPD024S	Method Blank
LCS1S	CPD024SL	1	NA	04/21/1120:22	04/21/1112:37	SD21020A	SD21017A	CPD024S	Lab Control Sample (LCS)
LCD1S	CPD024SC	1	NA	04/21/1120:48	04/21/1112:37	SD21021A	SD21017A	CPD024S	LCS Duplicate
FAIRLAND	D182-14	1	20	04/21/1121:13	04/21/1112:37	SD21022A	SD21017A	CPD024S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW3550B/8081A
PESTICIDES

Client	: CH2M HILL	Date Collected:	04/15/11
Project	: TAR CREEK OU4	Date Received:	04/16/11
Batch No.	: 11D182	Date Extracted:	04/21/11 12:37
Sample ID:	FAIRLAND	Date Analyzed:	04/21/11 21:13
Lab Samp ID:	D182-14	Dilution Factor:	1
Lab File ID:	SD21022A	Matrix :	SOIL
Ext Btch ID:	CPD024S	% Moisture :	20
Calib. Ref.:	SD21017A	Instrument ID :	GCT008

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	(ND)|ND	2.5	0.50|0.50
GAMMA-BHC (LINDANE)	(ND)|ND	2.5	0.50|0.50
BETA-BHC	(ND)|ND	2.5	0.50|0.50
HEPTACHLOR	(ND)|ND	2.5	0.50|0.50
DELTA-BHC	(ND)|ND	2.5	0.50|0.50
ALDRIN	(ND)|ND	2.5	0.50|0.50
HEPTACHLOR EPOXIDE	(ND)|ND	2.5	0.50|0.50
GAMMA-CHLORDANE	(ND)|ND	2.5	0.50|0.50
ALPHA-CHLORDANE	(ND)|ND	2.5	0.50|0.50
ENDOSULFAN I	(ND)|ND	2.5	0.50|0.50
4,4'-DDE	(ND)|ND	5.0	0.50|0.50
DIELDRIN	(ND)|ND	5.0	0.50|0.50
ENDRIN	(ND)|ND	5.0	0.50|0.50
4,4'-DDD	(ND)|ND	5.0	0.50|0.50
ENDOSULFAN II	(ND)|ND	5.0	0.50|0.50
4,4'-DDT	(ND)|ND	5.0	0.50|0.50
ENDRIN ALDEHYDE	(ND)|ND	5.0	0.50|0.50
ENDOSULFAN SULFATE	(ND)|ND	5.0	0.50|0.50
ENDRIN KETONE	(ND)|ND	5.0	0.50|0.50
METHOXYCHLOR	(ND)|ND	25	5.0|5.0
TOXAPHENE	(ND)|ND	50	12|12

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.30|(12.98)	16.66	73.8|(77.9)	10-160
DECACHLOROBIPHENYL	(16.71)|16.33	16.66	(100)|98.0	30-150

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

QC SUMMARIES

SW3550B/8081A
PESTICIDES

Client : CH2M HILL	Date Collected: NA
Project : TAR CREEK OU4	Date Received: 04/21/11
Batch No. : 11D182	Date Extracted: 04/21/11 12:37
Sample ID: MBLK1S	Date Analyzed: 04/21/11 19:57
Lab Samp ID: CPD024SB	Dilution Factor: 1
Lab File ID: SD21019A	Matrix : SOIL
Ext Btch ID: CPD024S	% Moisture : NA
Calib. Ref.: SD21017A	Instrument ID : GCT008

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	(ND)|ND	2.0	0.40|0.40
GAMMA-BHC (LINDANE)	(ND)|ND	2.0	0.40|0.40
BETA-BHC	(ND)|ND	2.0	0.40|0.40
HEPTACHLOR	(ND)|ND	2.0	0.40|0.40
DELTA-BHC	(ND)|ND	2.0	0.40|0.40
ALDRIN	(ND)|ND	2.0	0.40|0.40
HEPTACHLOR EPOXIDE	(ND)|ND	2.0	0.40|0.40
GAMMA-CHLORDANE	(ND)|ND	2.0	0.40|0.40
ALPHA-CHLORDANE	(ND)|ND	2.0	0.40|0.40
ENDOSULFAN I	(ND)|ND	2.0	0.40|0.40
4,4'-DDE	(ND)|ND	4.0	0.40|0.40
DIELDRIN	(ND)|ND	4.0	0.40|0.40
ENDRIN	(ND)|ND	4.0	0.40|0.40
4,4'-DDD	(ND)|ND	4.0	0.40|0.40
ENDOSULFAN II	(ND)|ND	4.0	0.40|0.40
4,4'-DDT	(ND)|ND	4.0	0.40|0.40
ENDRIN ALDEHYDE	(ND)|ND	4.0	0.40|0.40
ENDOSULFAN SULFATE	(ND)|ND	4.0	0.40|0.40
ENDRIN KETONE	(ND)|ND	4.0	0.40|0.40
METHOXYCHLOR	(ND)|ND	20	4.0|4.0
TOXAPHENE	(ND)|ND	40	10|10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	10.40|(10.71)	13.33	78.0|(80.4)	40-130
DECACHLOROBIPHENYL	12.74|(13.11)	13.33	95.5|(98.3)	40-160

RL : Reporting limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: SW3550B/8081A

MATRIX: SOIL % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	CPD024SB	CPD024SL	CPD024SC		
LAB FILE ID:	SD21019A	SD21020A	SD21021A		
DATE EXTRACTED:	04/21/1112:37	04/21/1112:37	04/21/1112:37	DATE COLLECTED:	NA
DATE ANALYZED:	04/21/1119:57	04/21/1120:22	04/21/1120:48	DATE RECEIVED:	04/21/11
PREP. BATCH:	CPD024S	CPD024S	CPD024S		
CALIB. REF:	SD21017A	SD21017A	SD21017A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)		SPIKE AMT (ug/kg)	BS RSLT (ug/kg)		BS % REC		SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)		BSD % REC		RPD (%)		QC LIMIT (%)	MAX RPD (%)
alpha-BHC	(ND)	ND	10.0	8.04	(8.37)	80	(84)	10.0	8.34	(8.62)	83	(86)	4	(3)	30-150	50
gamma-BHC (Lindane)	(ND)	ND	10.0	8.30	(8.37)	83	(84)	10.0	8.46	(8.53)	85	(85)	2	(2)	40-130	50
beta-BHC	(ND)	ND	10.0	7.93	(8.03)	79	(80)	10.0	(8.04)	8.02	(80)	80	(1)	0	50-140	50
Heptachlor	(ND)	ND	10.0	8.27	(8.39)	83	(84)	10.0	8.43	(8.48)	84	(85)	2	(1)	30-130	50
delta-BHC	(ND)	ND	10.0	9.17	(10.3)	92	(103)	10.0	9.19	(10.2)	92	(102)	0	(1)	30-150	50
Aldrin	(ND)	ND	10.0	7.57	(8.19)	76	(82)	10.0	8.01	(8.65)	80	(86)	6	(5)	30-130	50
Heptachlor Epoxide	(ND)	ND	10.0	8.82	(9.12)	88	(91)	10.0	8.75	(9.06)	88	(91)	1	(1)	60-140	50
gamma-Chlordane	(ND)	ND	10.0	8.86	(9.32)	89	(93)	10.0	8.79	(9.25)	88	(92)	1	(1)	60-140	50
alpha-Chlordane	(ND)	ND	10.0	8.87	(9.45)	89	(94)	10.0	8.78	(9.32)	88	(93)	1	(1)	50-140	50
Endosulfan I	(ND)	ND	10.0	8.05	(9.71)	80	(97)	10.0	7.96	(9.47)	80	(95)	1	(3)	50-150	50
4,4'-DDE	(ND)	ND	10.0	9.12	(9.59)	91	(96)	10.0	9.03	(9.23)	90	(92)	1	(4)	50-150	50
Dieldrin	(ND)	ND	10.0	9.52	(10.1)	95	(101)	10.0	9.34	(9.91)	93	(99)	2	(2)	60-130	50
Endrin	(ND)	ND	10.0	9.56	(10.4)	96	(104)	10.0	9.44	(10.3)	94	(103)	1	(1)	50-140	50
4,4'-DDD	(ND)	ND	10.0	9.44	(10.7)	94	(107)	10.0	9.31	(10.6)	93	(106)	1	(1)	50-160	50
Endosulfan II	(ND)	ND	10.0	10.0	(10.6)	100	(106)	10.0	9.87	(10.5)	99	(105)	1	(1)	60-150	50
4,4'-DDT	(ND)	ND	10.0	(11.0)	10.7	(110)	107	10.0	(10.9)	10.6	(109)	106	(1)	1	60-140	50
Endrin aldehyde	(ND)	ND	10.0	9.09	(9.88)	91	(99)	10.0	9.07	(9.76)	91	(98)	0	(1)	50-160	50
Endosulfan Sulfate	(ND)	ND	10.0	10.6	(10.9)	106	(109)	10.0	10.6	(10.9)	106	(109)	0	(0)	70-140	50
Endrin Ketone	(ND)	ND	10.0	9.82	(11.0)	98	(110)	10.0	9.04	(10.9)	90	(109)	8	(1)	70-160	50
Methoxychlor	(ND)	ND	100	(97.3)	94.3	(97)	94	100	(96.5)	92.9	(96)	93	(1)	1	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)		BS % REC		SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)		BSD % REC		QC LIMIT (%)
Tetrachloro-m-xylene	13.33	10.09	(10.52)	75.7	(78.9)	13.33	10.32	(10.64)	77.4	(79.8)	40-130
Decachlorobiphenyl	13.33	13.45	(13.52)	101	(101)	13.33	12.28	(13.37)	92.1	(100)	40-160

5997

INITIAL CALIBRATIONS

PEM PEST BREAKDOWN CALCULATION
METHOD 8081

Lab Name	:	EMAX		
Instrument ID	:	GCT008 HP-5890		
GC Columm	:	RTX-CLPEST	RTX-CLPESTII	
Column size ID	:	.32MMX30M	.32MMX30M	
PEM LFID & Datetime	:	SD01015A	SD01015B	04/01/11 17:50

Base on AREA

	AREA				% Breakdown				
LFID	DDD	DDE	DDT	TOTAL	DDD	DDE	TOTAL	QL	QCLIMIT
SD01015A	14063.0	37463.0	1175043.0	1226569.0	1.15	3.05	4.20		15
SD01015B	31881.0	61865.0	1642894.0	1736640.0	1.84	3.56	5.40		15
LFID	ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	QL	QCLIMIT
SD01015A	1446115.0	43521.0	47602.0	1537238.0	2.83	3.10	5.93		15
SD01015B	1921882.0	78120.0	87804.0	2087806.0	3.74	4.21	7.95		15

5005 4/5/11

INITIAL CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
LFID & Datetime: SD01016A 04/01/11 18:16
LFID & Datetime: SD01017A 04/01/11 18:42
LFID & Datetime: SD01018A 04/01/11 19:07
LFID & Datetime: SD01019A 04/01/11 19:33
LFID & Datetime: SD01020A 04/01/11 19:59
LFID & Datetime: SD01021A 04/01/11 20:24
LFID & Datetime: SD01022A 04/01/11 20:50
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	32.00X	MEAN	%RSD
Hexachlorobenzene	2.50	35728	34183	31714	28819	25747	23585	0	29962.9	15.9
alpha-BHC	2.50	15719	16724	18348	19785	20293	19710	19404	18569.1	9.3
gamma-BHC	2.50	15030	15938	17167	18354	18714	18168	17846	17316.8	7.9
beta-BHC	2.50	9674	9856	9955	9955	9715	9219	8982	9622.2	3.9
delta-BHC	2.50	13103	13688	14965	16788	18277	18140	18115	16153.5	13.7
Heptachlor	2.50	18246	18506	18445	18490	18011	17132	16632	17923.0	4.2
Aldrin	2.50	16225	16433	17001	17736	17969	17375	17058	17114.0	3.7
Heptachlor Epoxide	2.50	19094	18410	18398	18326	17900	17038	16556	17960.2	4.9
gamma-Chlordane	2.50	19262	18724	18779	18933	18711	17977	17588	18567.7	3.1
alpha-Chlordane	2.50	18986	18849	18936	18993	18619	17782	17351	18502.3	3.6
DDE	5.00	14635	14760	15463	16233	16532	15986	15703	15615.9	4.6
Endosulfan I	2.50	20716	20415	20097	20131	19510	18550	18043	19637.6	5.1
Dieldrin	5.00	16173	15903	16432	16855	16660	15868	15415	16186.5	3.1
Endrin	5.00	14772	14897	14982	15098	14664	13912	13423	14535.5	4.3
DDD	5.00	9876	10077	10564	11551	12354	12209	12140	11252.9	9.4
Endosulfan II	5.00	16413	16555	16682	16711	16192	15309	14792	16093.4	4.7
DDT	5.00	7832	8904	9956	11185	12112	12079	12087	10593.7	16.3
Endrin Aldehyde	5.00	16831	16331	15858	15341	14626	13750	13279	15145.2	8.7
Methoxychlor	25.00	6332	6447	6346	6114	5621	5198	4968	5860.7	10.2
Endosulfan Sulfate	5.00	14771	14978	15009	14906	14242	13357	12452	14244.8	6.9
Endrin Ketone	5.00	15632	16643	17253	17671	17418	16562	16078	16750.9	4.4

SURROGATE	X	1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	32.00X	MEAN	%RSD
TCX	2.50	16775	16879	16185	15785	14949	14065	13493	15447.2	8.5
DCB	2.50	28432	27776	26622	25628	23555	21896	20913	24974.6	11.7

5010 4/5/11

INITIAL CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
LFID & Datetime: SD01016B 04/01/11 18:16
LFID & Datetime: SD01017B 04/01/11 18:42
LFID & Datetime: SD01018B 04/01/11 19:07
LFID & Datetime: SD01019B 04/01/11 19:33
LFID & Datetime: SD01020B 04/01/11 19:59
LFID & Datetime: SD01021B 04/01/11 20:24
LFID & Datetime: SD01022B 04/01/11 20:50
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	32.00X	MEAN	%RSD
Hexachlorobenzene	2.50	43912	41014	37420	33810	30043	27409	0	35601.5	17.9
alpha-BHC	2.50	28773	29080	29139	28978	27928	26314	23454	27666.7	7.6
gamma-BHC	2.50	27872	27800	27663	27390	26311	24911	22936	26411.9	7.1
beta-BHC	2.50	16644	16745	16170	15196	14168	13257	12707	14983.7	10.9
delta-BHC	2.50	21690	22363	23087	23959	24813	24096	23576	23369.4	4.6
Heptachlor	2.50	26431	28791	26976	25469	22735	20883	18656	24277.3	15.0
Aldrin	2.50	28954	28331	28041	27375	26197	24803	23753	26779.2	7.2
Heptachlor Epoxide	2.50	29858	28665	27411	26328	24728	23120	22175	26040.9	10.9
gamma-Chlordane	2.50	32744	31589	30113	29259	27715	26088	25268	28968.0	9.6
alpha-Chlordane	2.50	31577	30989	29513	28660	27071	25371	24336	28216.6	9.7
DDE	5.00	26603	26825	26222	26540	25677	24275	0	26023.6	3.6
Endosulfan I	2.50	28554	28898	27243	26656	24763	22958	21483	25793.6	10.9
Dieldrin	5.00	25945	26205	25179	24826	22646	21069	0	24311.5	8.3
Endrin	5.00	23865	22661	21871	21143	19584	18156	17212	20641.7	11.7
DDD	5.00	17444	17661	17268	17656	17480	16722	16318	17221.2	3.0
Endosulfan II	5.00	26810	26877	25519	25036	23229	21472	20264	24172.5	10.7
DDT	5.00	15965	16649	16982	17363	17244	16582	16221	16715.3	3.1
Endrin Aldehyde	5.00	24381	23546	22645	21557	19989	18524	17668	21187.1	12.0
Methoxychlor	25.00	9049	8932	8260	7474	6485	5812	0	7668.7	17.2
Endosulfan Sulfate	5.00	23532	23022	22685	21907	20766	19419	18572	21414.6	8.8
Endrin Ketone	5.00	27710	25676	25292	24707	23145	21332	20527	24055.7	10.5
SURROGATE	X	1.00X	2.00X	4.00X	8.00X	16.00X	24.00X	32.00X	MEAN	%RSD
TCX	2.50	27103	25013	24245	22404	20559	19046	18495	22409.2	14.4
DCB	2.50	38936	37906	35948	33650	30711	28356	27024	33218.6	14.0

4/15/11

5011

INITIAL CALIBRATION
METHOD EPA 8081

Lab Name : EMAX Inc
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
LFID & Datetime: SD01024A 04/01/11 21:41
LFID & Datetime: SD01025A 04/01/11 22:07
LFID & Datetime: SD01026A 04/01/11 22:32
LFID & Datetime: SD01027A 04/01/11 22:58
LFID & Datetime: SD01028A 04/01/11 23:23
LFID & Datetime: SD01029A 04/01/11 23:49
LFID & Datetime: SD01030A 04/02/11 00:15
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.50X	5.00X	7.50X	10.00X	15.00X	20.00X	MEAN	%RSD
Toxaphene	100.00	9432	10836	11598	11949	12067	12126	12513	11502.8	9.2

5012 4/5/11

INITIAL CALIBRATION
METHOD EPA 8081

Lab Name : EMAX Inc
Instrument ID : GCTO08 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
LFID & Datetime: SD01024B 04/01/11 21:41
LFID & Datetime: SD01025B 04/01/11 22:07
LFID & Datetime: SD01026B 04/01/11 22:32
LFID & Datetime: SD01027B 04/01/11 22:58
LFID & Datetime: SD01028B 04/01/11 23:23
LFID & Datetime: SD01029B 04/01/11 23:49
LFID & Datetime: SD01030B 04/02/11 00:15
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.50X	5.00X	7.50X	10.00X	15.00X	20.00X	MEAN	%RSD
Toxaphene	100.00	21596	20621	20051	19656	19319	18560	18452	19750.6	5.7

5013 4/15/11

SECOND SOURCE VERIFICATION

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01019A 04/01/2011 19:33
Conc Cont LFID & Datetime: SD01023A 04/01/2011 21:15
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	4.267	4.252	4.282	20.0	29962.9	539147	17.99	-10		15
alpha-BHC	4.450	4.430	4.470	20.0	18569.1	397784	21.42	7		15
gamma-BHC	4.773	4.753	4.793	20.0	17316.8	364116	21.03	5		15
beta-BHC	4.867	4.852	4.882	20.0	9622.2	200161	20.80	4		15
delta-BHC	5.060	5.050	5.070	20.0	16153.5	344016	21.30	6		15
Heptachlor	5.293	5.278	5.308	20.0	17923.0	375209	20.93	5		15
Aldrin	5.657	5.637	5.677	20.0	17114.0	363738	21.25	6		15
Heptachlor Epoxide	6.497	6.477	6.517	20.0	17960.2	383353	21.34	7		15
gamma-Chlordane	6.690	6.670	6.710	20.0	18567.7	391871	21.10	6		15
alpha-Chlordane	6.910	6.890	6.930	20.0	18502.3	394203	21.31	7		15
DDE	7.040	7.025	7.055	20.0	15615.9	309195	19.80	-1		15
Endosulfan I	7.157	7.132	7.182	20.0	19637.6	391677	19.94	-0		15
Dieldrin	7.597	7.572	7.622	20.0	16186.5	341193	21.08	5		15
Endrin	8.063	8.038	8.088	20.0	14535.5	306046	21.06	5		15
DDD	8.213	8.193	8.233	20.0	11252.9	208497	18.53	-7		15
Endosulfan II	8.547	8.522	8.572	20.0	16093.4	342448	21.28	6		15
DDT	8.843	8.818	8.868	20.0	10593.7	228619	21.58	8		15
Endrin Aldehyde	9.563	9.533	9.593	20.0	15145.2	324634	21.43	7		15
Methoxychlor	10.140	10.110	10.170	200.0	5860.7	1253216	213.83	7		15
Endosulfan Sulfate	10.767	10.732	10.802	20.0	14244.8	316665	22.23	11		15
Endrin Ketone	11.597	11.562	11.632	20.0	16750.9	339139	20.25	1		15

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	3.833	3.813	3.853	20.0	15447.2	337911	21.88	9		15
DCB	15.433	15.393	15.473	20.0	24974.6	542561	21.73	9		15

4/15/11

5015

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01019B 04/01/2011 19:33
Conc Cont LFID & Datetime: SD01023B 04/01/2011 21:15
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	4.307	4.297	4.317	20.0	35601.5	630786	17.72	-11		15
alpha-BHC	4.453	4.443	4.463	20.0	27666.7	589624	21.31	7		15
gamma-BHC	4.810	4.800	4.820	20.0	26411.9	544935	20.63	3		15
beta-BHC	4.900	4.890	4.910	20.0	14983.7	305972	20.42	2		15
delta-BHC	5.213	5.203	5.223	20.0	23369.4	495414	21.20	6		15
Heptachlor	5.280	5.270	5.290	20.0	24277.3	523648	21.57	8		15
Aldrin	5.667	5.647	5.687	20.0	26779.2	559103	20.88	4		15
Heptachlor Epoxide	6.457	6.447	6.467	20.0	26040.9	545819	20.96	5		15
gamma-Chlordane	6.760	6.750	6.770	20.0	28968.0	611170	21.10	5		15
alpha-Chlordane	7.013	6.993	7.033	20.0	28216.6	594393	21.07	5		15
DDE	7.327	7.307	7.347	20.0	26023.6	536571	20.62	3		15
Endosulfan I	7.113	7.103	7.123	20.0	25793.6	561006	21.75	9		15
Dieldrin	7.630	7.610	7.650	20.0	24311.5	536948	22.09	10		15
Endrin	8.263	8.243	8.283	20.0	20641.7	449320	21.77	9		15
DDD	8.557	8.537	8.577	20.0	17221.2	356714	20.71	4		15
Endosulfan II	8.757	8.737	8.777	20.0	24172.5	532945	22.05	10		15
DDT	9.333	9.303	9.363	20.0	16715.3	347773	20.81	4		15
Endrin Aldehyde	9.617	9.597	9.637	20.0	21187.1	461592	21.79	9		15
Methoxychlor	11.457	11.427	11.487	200.0	7668.7	1533727	200.00	-0		15
Endosulfan Sulfate	10.393	10.363	10.423	20.0	21414.6	474686	22.17	11		15
Endrin Ketone	12.037	12.017	12.057	20.0	24055.7	518577	21.56	8		15

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	3.797	3.787	3.807	20.0	22409.2	478249	21.34	7		15
DCB	17.153	17.113	17.193	20.0	33218.6	711680	21.42	7		15

5016 4/15/11

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01026A 04/01/2011 22:32
Conc Cont LFID & Datetime: SD01031A 04/02/2011 00:40
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	11502.8	5656788	491.77	-2		15

5017 4/5/11

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01026B 04/01/2011 22:32
Conc Cont LFID & Datetime: SD01031B 04/02/2011 00:40
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	19750.6	9705169	491.39	-2		15

5018 4/5/11

DAILY CALIBRATIONS

PEM PEST BREAKDOWN CALCULATION
METHOD 8081

Lab Name	:	EMAX		
Instrument ID	:	GCT008 HP-5890		
GC Columm	:	RTX-CLPEST	RTX-CLPESTII	
Column size ID	:	.32MMX30M	.32MMX30M	
PEM LFID & Datetime	:	SD21003A	SD21003B	04/21/11 13:07

Base on AREA

	AREA				% Breakdown				
LFID	DDD	DDE	DDT	TOTAL	DDD	DDE	TOTAL	QL	QCLIMIT
SD21003A	20094.0	40156.0	1145185.0	1205435.0	1.67	3.33	5.00		15
SD21003B	75271.0	72197.0	1732800.0	1880268.0	4.00	3.84	7.84		15
LFID	ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	ENDRIN ALDEHYDE	ENDRIN KETONE	TOTAL	QL	QCLIMIT
SD21003A	1429367.0	82863.0	74146.0	1586376.0	5.22	4.67	9.90		15
SD21003B	2021032.0	146213.0	127847.0	2295092.0	6.37	5.57	11.94		15

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01019A 04/01/2011 19:33
Conc Cont LFID & Datetime: SD21017A 04/21/2011 19:06
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	4.257	4.242	4.272	20.0	29962.9	598354	19.97	-0		20
alpha-BHC	4.440	4.420	4.460	20.0	18569.1	403668	21.74	9		20
gamma-BHC	4.767	4.747	4.787	20.0	17316.8	375957	21.71	9		20
beta-BHC	4.860	4.845	4.875	20.0	9622.2	205724	21.38	7		20
delta-BHC	5.053	5.043	5.063	20.0	16153.5	338630	20.96	5		20
Heptachlor	5.283	5.268	5.298	20.0	17923.0	384239	21.44	7		20
Aldrin	5.643	5.623	5.663	20.0	17114.0	362319	21.17	6		20
Heptachlor Epoxide	6.480	6.460	6.500	20.0	17960.2	382291	21.28	6		20
gamma-Chlordane	6.673	6.653	6.693	20.0	18567.7	391131	21.07	5		20
alpha-Chlordane	6.893	6.873	6.913	20.0	18502.3	390330	21.10	5		20
DDE	7.023	7.008	7.038	40.0	15615.9	649960	41.62	4		20
Endosulfan I	7.137	7.112	7.162	20.0	19637.6	430838	21.94	10		20
Dieldrin	7.577	7.552	7.602	40.0	16186.5	701719	43.35	8		20
Endrin	8.040	8.015	8.065	40.0	14535.5	547355	37.66	-6		20
DDD	8.193	8.173	8.213	40.0	11252.9	459094	40.80	2		20
Endosulfan II	8.523	8.498	8.548	40.0	16093.4	699759	43.48	9		20
DDT	8.820	8.795	8.845	40.0	10593.7	420907	39.73	-1		20
Endrin Aldehyde	9.537	9.507	9.567	40.0	15145.2	667306	44.06	10		20
Methoxychlor	10.120	10.090	10.150	200.0	5860.7	1181322	201.57	1		20
Endosulfan Sulfate	10.740	10.705	10.775	40.0	14244.8	626596	43.99	10		20
Endrin Ketone	11.567	11.532	11.602	40.0	16750.9	752932	44.95	12		20

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	3.827	3.807	3.847	20.0	15447.2	322098	20.85	4		20
DCB	15.403	15.363	15.443	20.0	24974.6	552188	22.11	11		20

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01019B 04/01/2011 19:33
Conc Cont LFID & Datetime: SD21017B 04/21/2011 19:06
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	4.300	4.290	4.310	20.0	35601.5	745605	20.94	5		20
alpha-BHC	4.447	4.437	4.457	20.0	27666.7	647543	23.41	17		20
gamma-BHC	4.803	4.793	4.813	20.0	26411.9	607753	23.01	15		20
beta-BHC	4.890	4.880	4.900	20.0	14983.7	344380	22.98	15		20
delta-BHC	5.207	5.197	5.217	20.0	23369.4	511592	21.89	9		20
Heptachlor	5.270	5.260	5.280	20.0	24277.3	608209	25.05	25	*	20
Aldrin	5.657	5.637	5.677	20.0	26779.2	609066	22.74	14		20
Heptachlor Epoxide	6.443	6.433	6.453	20.0	26040.9	592004	22.73	14		20
gamma-Chlordane	6.747	6.737	6.757	20.0	28968.0	656136	22.65	13		20
alpha-Chlordane	6.997	6.977	7.017	20.0	28216.6	633362	22.45	12		20
DDE	7.310	7.290	7.330	40.0	26023.6	1163436	44.71	12		20
Endosulfan I	7.097	7.087	7.107	20.0	25793.6	605733	23.48	17		20
Dieldrin	7.610	7.590	7.630	40.0	24311.5	1107230	45.54	14		20
Endrin	8.243	8.223	8.263	40.0	20641.7	851004	41.23	3		20
DDD	8.540	8.520	8.560	40.0	17221.2	790537	45.90	15		20
Endosulfan II	8.733	8.713	8.753	40.0	24172.5	1146757	47.44	19		20
DDT	9.310	9.280	9.340	40.0	16715.3	756877	45.28	13		20
Endrin Aldehyde	9.593	9.573	9.613	40.0	21187.1	1004884	47.43	19		20
Methoxychlor	11.433	11.403	11.463	200.0	7668.7	1594278	207.89	4		20
Endosulfan Sulfate	10.370	10.340	10.400	40.0	21414.6	982183	45.87	15		20
Endrin Ketone	12.013	11.993	12.033	40.0	24055.7	1141881	47.47	19		20

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	3.790	3.780	3.800	20.0	22409.2	488224	21.79	9		20
DCB	17.123	17.083	17.163	20.0	33218.6	782228	23.55	18		20

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01026A 04/01/2011 22:32
Conc Cont LFID & Datetime: SD21018A 04/21/2011 19:31
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	11502.8	6017176	523.10	5		20

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01026B 04/01/2011 22:32
Conc Cont LFID & Datetime: SD21018B 04/21/2011 19:31
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	19750.6	10998898	556.89	11		20

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Column : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01019A 04/01/2011 19:33
Conc Cont LFID & Datetime: SD21031A 04/22/2011 01:03
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	4.257	4.242	4.272	20.0	29962.9	561931	18.75	-6		20
alpha-BHC	4.440	4.420	4.460	20.0	18569.1	362508	19.52	-2		20
gamma-BHC	4.767	4.747	4.787	20.0	17316.8	341000	19.69	-2		20
beta-BHC	4.857	4.842	4.872	20.0	9622.2	193099	20.07	0		20
delta-BHC	5.050	5.040	5.060	20.0	16153.5	307426	19.03	-5		20
Heptachlor	5.283	5.268	5.298	20.0	17923.0	351752	19.63	-2		20
Aldrin	5.643	5.623	5.663	20.0	17114.0	328000	19.17	-4		20
Heptachlor Epoxide	6.477	6.457	6.497	20.0	17960.2	332895	18.53	-7		20
gamma-Chlordane	6.673	6.653	6.693	20.0	18567.7	345250	18.59	-7		20
alpha-Chlordane	6.890	6.870	6.910	20.0	18502.3	343796	18.58	-7		20
DDE	7.020	7.005	7.035	40.0	15615.9	584867	37.45	-6		20
Endosulfan I	7.133	7.108	7.158	20.0	19637.6	357051	18.18	-9		20
Dieldrin	7.573	7.548	7.598	40.0	16186.5	639680	39.52	-1		20
Endrin	8.037	8.012	8.062	40.0	14535.5	482900	33.22	-17		20
DDD	8.187	8.167	8.207	40.0	11252.9	418574	37.20	-7		20
Endosulfan II	8.520	8.495	8.545	40.0	16093.4	587096	36.48	-9		20
DDT	8.813	8.788	8.838	40.0	10593.7	408222	38.53	-4		20
Endrin Aldehyde	9.530	9.500	9.560	40.0	15145.2	543263	35.87	-10		20
Methoxychlor	10.110	10.080	10.140	200.0	5860.7	1099806	187.66	-6		20
Endosulfan Sulfate	10.733	10.698	10.768	40.0	14244.8	542502	38.08	-5		20
Endrin Ketone	11.560	11.525	11.595	40.0	16750.9	637234	38.04	-5		20

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	3.823	3.803	3.843	20.0	15447.2	319711	20.70	3		20
DCB	15.393	15.353	15.433	20.0	24974.6	421122	16.86	-16		20

CONTINUE CALIBRATION
METHOD 8081

Lab Name : EMAX Inc
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01019B 04/01/2011 19:33
Conc Cont LFID & Datetime: SD21031B 04/22/2011 01:03
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Hexachlorobenzene	4.300	4.290	4.310	20.0	35601.5	672881	18.90	-6		20
alpha-BHC	4.447	4.437	4.457	20.0	27666.7	559716	20.23	1		20
gamma-BHC	4.803	4.793	4.813	20.0	26411.9	527231	19.96	-0		20
beta-BHC	4.890	4.880	4.900	20.0	14983.7	300098	20.03	0		20
delta-BHC	5.203	5.193	5.213	20.0	23369.4	450546	19.28	-4		20
Heptachlor	5.270	5.260	5.280	20.0	24277.3	542239	22.33	12		20
Aldrin	5.657	5.637	5.677	20.0	26779.2	518088	19.35	-3		20
Heptachlor Epoxide	6.440	6.430	6.450	20.0	26040.9	501894	19.27	-4		20
gamma-Chlordane	6.743	6.733	6.753	20.0	28968.0	550629	19.01	-5		20
alpha-Chlordane	6.993	6.973	7.013	20.0	28216.6	539627	19.12	-4		20
DDE	7.307	7.287	7.327	40.0	26023.6	961789	36.96	-8		20
Endosulfan I	7.097	7.087	7.107	20.0	25793.6	513671	19.92	-0		20
Dieldrin	7.610	7.590	7.630	40.0	24311.5	963786	39.64	-1		20
Endrin	8.240	8.220	8.260	40.0	20641.7	834053	40.41	1		20
DDD	8.533	8.513	8.553	40.0	17221.2	741038	43.03	8		20
Endosulfan II	8.730	8.710	8.750	40.0	24172.5	943115	39.02	-2		20
DDT	9.307	9.277	9.337	40.0	16715.3	570887	34.15	-15		20
Endrin Aldehyde	9.587	9.567	9.607	40.0	21187.1	785163	37.06	-7		20
Methoxychlor	11.427	11.397	11.457	200.0	7668.7	1382097	180.23	-10		20
Endosulfan Sulfate	10.363	10.333	10.393	40.0	21414.6	812162	37.93	-5		20
Endrin Ketone	12.007	11.987	12.027	40.0	24055.7	848413	35.27	-12		20

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	3.790	3.780	3.800	20.0	22409.2	456980	20.39	2		20
DCB	17.113	17.073	17.153	20.0	33218.6	566165	17.04	-15		20

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPEST
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01026A 04/01/2011 22:32
Conc Cont LFID & Datetime: SD21032A 04/22/2011 01:29
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	11502.8	5273223	458.43	-8		20

CONTINUE CALIBRATION
METHOD EPA 8081

Lab Name : EMAX
Instrument ID : GCT008 HP-5890
GC Columm : RTX-CLPESTII
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: SD01026B 04/01/2011 22:32
Conc Cont LFID & Datetime: SD21032B 04/22/2011 01:29
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Toxaphene	0.000	0.000	0.000	500.0	19750.6	9304400	471.10	-6		20

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
PESTICIDES/PCBs

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A08-026
Instrument No.:	08
Analytical Sequence:	SD01
Method File:	CP08D01, TO08D01, CR08D01
Analytical Batch:	SD01016

SOP #	Rev. #
☑ EMAX-8081	7
☐ EMAX-8082	3
☐ EMAX-608	1
☐ EMAX-CLP-PEST	
☐ EMAX-	

ICAL REFERENCE

ICAL ID	BATCH	DATE
CP08D01	SD01	04-01-2011
TO08D01	SD01	04-01-2011
CR08D01	SD01	04-01-2011

STANDARDS ID		Conc (µg/L)
Hexane	50283	N/A
PEM	SS1C-06-32-2	100 /100
PEST ICAL	SS1B-06-86-1	50 /160/800
PEST ICV	SS1B-06-77-2	100 /1000
TOXA ICAL	SS1B-06-86-2	2000 /100
TOXA ICV	SS1B-06-86-3	2000 /100
CHLD ICAL	SS1B-06-78-1	2000 /100
CHLD ICV	SS1B-06-85-1	2000 /100

Column	A STX CLPEST I / B STX CLPEST II

ELECTRONIC DATA ARCHIVAL

Location	Date
☐ EZC_4_Pesticides	
☐ EZC_10_Pesticides	

Analyzed By: [signature] Date: 04-01-2011

Date Disposed: 04-04-2011 Disposed By: [signature]

This page is checked during data review.

Run	Sample ID	Method	Filename	Mult.	Description
1	IB08B0882	cp08b08.met	SD01.001	1	Used 2uL inj. volume
2	PE08B0882	cp08b08.met	SD01.002	1	"
3	CCP08B0882	cp08b08.met	SD01.003	1	"
4	CTO08B0882	to08b08.met	SD01.004	1	"
5	CP08D0101	cp08d01.met	SD01.005	1	"
6	CP08D0102	cp08d01.met	SD01.006	1	"
7	CP08D0103	cp08d01.met	SD01.007	1	"
8	CP08D0104	cp08d01.met	SD01.008	1	"
9	CP08D0105	cp08d01.met	SD01.009	1	"
10	CP08D0106	cp08d01.met	SD01.010	1	"
11	CP08D0107	cp08d01.met	SD01.011	1	"
12	ICP08D0101	cp08d01.met	SD01.012	1	"
13	TO08D0101	to08d01.met	SD01.013	1	"
14	IB08D0101	cp08d01.met	SD01.014	1	Used 1uL inj. volume
15	PE08D0101	cp08d01.met	SD01.015	1	"
16	CP08D0101	cp08d01.met	SD01.016	1	"
17	CP08D0102	cp08d01.met	SD01.017	1	"
18	CP08D0103	cp08d01.met	SD01.018	1	"
19	CP08D0104	cp08d01.met	SD01.019	1	"
20	CP08D0105	cp08d01.met	SD01.020	1	"
21	CP08D0106	cp08d01.met	SD01.021	1	"
22	CP08D0107	cp08d01.met	SD01.022	1	"
23	ICP08D0101	cp08d01.met	SD01.023	1	"
24	TO08D0101	to08d01.met	SD01.024	1	"

not used, see re-run

Run	Sample ID	Method	Filename	Mult.	Description
25	TO08D0102	to08d01.met	SD01.025	1	"
26	TO08D0103	to08d01.met	SD01.026	1	"
27	TO08D0104	to08d01.met	SD01.027	1	"
28	TO08D0105	to08d01.met	SD01.028	1	"
29	TO08D0106	to08d01.met	SD01.029	1	"
30	TO08D0107	to08d01.met	SD01.030	1	"
31	ITO08D0101	to08d01.met	SD01.031	1	"
32	CR08D0101	cr08d01.met	SD01.032	1	"
33	CR08D0102	cr08d01.met	SD01.033	1	"
34	CR08D0103	cr08d01.met	SD01.034	1	"
35	CR08D0104	cr08d01.met	SD01.035	1	"
36	CR08D0105	cr08d01.met	SD01.036	1	"
37	CR08D0106	cr08d01.met	SD01.037	1	"
38	CR08D0107	cr08d01.met	SD01.038	1	"
39	ICR08D0101	cr08d01.met	SD01.039	1	"
40	ID	cp08b08.met	SD01.040	1	
41	ID	cp08b08.met	SD01.041	1	
42	ID	cp08b08.met	SD01.042	1	
43	ID	cp08b08.met	SD01.043	1	
44	ID	cp08b08.met	SD01.044	1	
45	ID	cp08b08.met	SD01.045	1	
46	ID	cp08b08.met	SD01.046	1	
47	ID	cp08b08.met	SD01.047	1	
48	ID	cp08b08.met	SD01.048	1	

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
PESTICIDES/PCBs

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A08-026
Instrument No.:	08
Analytical Sequence:	SD21
Method File:	CP08D01, TD08D01, MX08D21
Analytical Batch:	SD21 004

SOP #	Rev. #
☑ EMAX-8081	7
☐ EMAX-8082	3
☐ EMAX-608	1
☐ EMAX-CLP-PEST	
☐ EMAX-	

ICAL REFERENCE

ICAL ID	BATCH	DATE
CP08D01	SD01	04-01-2011
TD08D01	SD01	04-01-2011
MX08D21	SD21	04-21-2011

STANDARDS ID		Conc (µg/L)
Hexane	50283	N/A
PEM	SS1C-06-35-1	100/100
IB	SS1C-06-36-2	40/40
PEST ICAL	SS1B-06-86-1	80/160/500
TOXA ICAL	SS1B-06-86-2	2000/100
MREX ICAL	SS1B-06-87-3	80/80
MREX ICV	SS1B-06-88-1	80/80

Column	(A) STX CLPEST I (B) STX CLPEST II

ELECTRONIC DATA ARCHIVAL

Location	Date
☐ EZC_4_Pesticides	
☐ EZC_10_Pesticides	

Analyzed By: [signature] Date: 04-21-2011

Date Disposed: Disposed By:

This page is checked during data review.

Run	Sample ID	Method	Filename	Mult.	Description
1	HEXANE RINSE	cp08d01.met	SD21.001	1	
2	IB08D0148	cp08d01.met	SD21.002	1	
3	PE08D0148	cp08d01.met	SD21.003	1	
4	CCP08D0148	cp08d01.met	SD21.004	1	
5	CTO08D0148	to08d01.met	SD21.005	1	
6	245-Trichlorophenol	tp08l04.met	SD21.006	1	2,4,5-Trichlorophenol
7	SS1C-06-41-3 DF=10	to08d01.met	SD21.007	10	TOXA SPIKE CHECK
8	CTO08D0149	to08d01.met	SD21.008	1	
9	MX08D2101	mx08d21.met	SD21.009	1	
10	MX08D2102	mx08d21.met	SD21.010	1	
11	MX08D2103	mx08d21.met	SD21.011	1	
12	MX08D2104	mx08d21.met	SD21.012	1	
13	MX08D2105	mx08d21.met	SD21.013	1	
14	MX08D2106	mx08d21.met	SD21.014	1	
15	MX08D2107	mx08d21.met	SD21.015	1	
16	IMX08D2101	mx08d21.met	SD21.016	1	
17	CCP08D0149	cp08d01.met	SD21.017	1	
18	CTO08D0149	to08d01.met	SD21.018	1	
19	CPD024SB	cp08d01.met	SD21.019	1	
20	CPD024SL	cp08d01.met	SD21.020	1	
21	CPD024SC	cp08d01.met	SD21.021	1	
22	D182-14	cp08d01.met	SD21.022	1	
23	D192-06	cp08d01.met	SD21.023	1	
24	D192-11	cp08d01.met	SD21.024	1	

Run	Sample ID	Method	Filename	Mult.	Description
25	D192-11M	cp08d01.met	SD21.025	1	
26	D192-11S	cp08d01.met	SD21.026	1	
27	D208-02	cp08d01.met	SD21.027	1	
28	D208-08	cp08d01.met	SD21.028	1	
29	D208-12	cp08d01.met	SD21.029	1	
30	D208-16	cp08d01.met	SD21.030	1	
31	CCP08D0150	cp08d01.met	SD21.031	1	
32	CT008D0150	to08d01.met	SD21.032	1	

EXTRACTION LOG

EMAX LABORATORIES, INC.

EXTRACTION LOG
for
PESTICIDES/PCBs

SOP	Rev. #
☐ EMAX-3510	1
☐ EMAX-3520	4
☐ EMAX-3540	1
☑ EMAX-3550	3
☐ EMAX-3580	1
☐ EMAX-CLP-PEST	
☐ EMAX-	
Micropipette ID:	
Micropipette ID:	

Note: For samples, relevant QCs/Standards extracted, refer to attached extraction sequence.

Comments:

LAB SAMPLE ID	SONICATOR #	TURBOVAP # (35/60°C)
CPD024-SP	4	1/5
-SL,SC	6	1/5
60D024-SL,SC	4	1/5
D182-14	4	1/5
D192-06,11	6	2/5
-11M,11S	6	2/5
D208-02	4	2/5
-08,12	6	3/5
-16	4	3/5

Book #: ECP-054

Preparation Batch: CPD024S

Matrix: SOIL

STANDARDS	ID	Amount Added (ml)
Surrogate	SSIC-06-35-3	1.0
LCS/MS (PEST)	SSIC-06-36-1	0.75
LCS/MS (PCB)	SSIC-06-35-2	0.50
LCS/MS		
Reagents	Lot# / ID	
CH_2Cl_2	50294	
Hexane	50283	
Na_2SO_4	SWB-002-09-05	
H_2SO_4	50108	
TBA Reagent		
Silica Sand	78686	
Florisil	-	

Tuning

Sonicator #	Reading
4	470
6	25%

Concentrator Water Bath Temp. (°C)

1	35	35
2	35	35
3	35	35
4		
5	60	60
6		

Test Thermometer = T_1

Prepared By: JK

Checked By: JB

Witnessed By: CS

Received By: 4-21-11

Standards Added By: JK

Disposed By:

Extract Location: SF02 # 09

Disposal Date:

JK 4/21/11

5037

EMAX LABORATORIES, INC.

FileID: CPD024S

EXTRACTION LOG FOR PESTICIDES

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Ve(ml)	ExpAmt	ExpVe(ml)	PrepFctr	Comments
11CPD024S01	CPD024SB	30	g	4/21/11 10:52	10	30	10	1	
11CPD024S02	CPD024SL	30	g	4/21/11 10:52	10	30	10	1	
11CPD024S03	CPD024SC	30	g	4/21/11 10:52	10	30	10	1	
11CPD024S04	60D024SL	30	g	4/21/11 10:54	10	30	10	1	
11CPD024S05	60D024SC	30	g	4/21/11 10:59	10	30	10	1	
11CPD024S06	D182-14	30.02	g	4/21/11 10:55	10	30	10	1	Split sample for PCB Acid Clean-Up.
11CPD024S07	D192-06	30.03	g	4/21/11 10:57	10	30	10	1	
11CPD024S08	D192-11	30.03	g	4/21/11 10:57	10	30	10	1	
11CPD024S09	D192-11M	30.02	g	4/21/11 10:58	10	30	10	1	PEST.
11CPD024S10	D192-11S	30.01	g	4/21/11 10:58	10	30	10	1	PEST.
11CPD024S11	D208-02	30	g	4/21/11 11:58	10	30	10	1	
11CPD024S12	D208-08	30.02	g	4/21/11 11:59	10	30	10	1	
11CPD024S13	D208-12	30.02	g	4/21/11 11:59	10	30	10	1	
11CPD024S14	D208-16	30.01	g	4/21/11 11:59	10	30	10	1	
11CPD024S15	60d024SB	30	g	4/21/11 15:16	10	30	10	1	Split sample fr. CPD024SB for PCB Acid Clean-up.

Balance ID: 10203192. Calibration check was verified prior to use. Ve=extract volume PrepFctr=(ExpAmt/Aliquot)(Ve/ExpVe)

☑ Extraction Started @ 4/21/11 12:37 Prepared By: jvillena

☑ Extraction Ended @ 4/21/11 15:17 Checked By: JM

Comments: Date 4/21/11

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METHOD 3550B/8082
PCBs

SDG#: 11D182

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

SW3550B/8082
PCBS

One (1) soil sample was received on 04/16/11 for Polychlorinated Biphenyls (PCBs) analysis, Method SW3550B/8082 in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for 60D024SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
PCBs

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : GCT071

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	60D024SB	1	NA	04/21/1121:51	04/21/1112:37	KD21036A	KD21028A	CPD024S	Method Blank
LCS1S	60D024SL	1	NA	04/21/1122:12	04/21/1112:37	KD21037A	KD21028A	CPD024S	Lab Control Sample (LCS)
LCD1S	60D024SC	1	NA	04/21/1122:33	04/21/1112:37	KD21038A	KD21028A	CPD024S	LCS Duplicate
FAIRLAND	D182-14	1	20.0	04/21/1122:54	04/21/1112:37	KD21039A	KD21028A	CPD024S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW3550B/8082
PCBs

Client	: CH2M HILL	Date Collected:	04/15/11
Project	: TAR CREEK OU4	Date Received:	04/16/11
Batch No.	: 11D182	Date Extracted:	04/21/11 12:37
Sample ID:	FAIRLAND	Date Analyzed:	04/21/11 22:54
Lab Samp ID:	D182-14	Dilution Factor:	1
Lab File ID:	KD21039A	Matrix	: SOIL
Ext Btch ID:	CPD024S	% Moisture	: 20.0
Calib. Ref.:	KD21028A	Instrument ID	: GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND)|ND	50	21|21
PCB-1221	(ND)|ND	50	21|21
PCB-1232	(ND)|ND	50	21|21
PCB-1242	(ND)|ND	50	21|21
PCB-1248	(ND)|ND	50	21|21
PCB-1254	(ND)|ND	50	21|21
PCB-1260	(ND)|ND	50	21|21

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(14.43)|14.16	16.66	(86.6)|85.0	10-160
DECACHLOROBIPHENYL	15.46|(17.02)	16.66	92.8|(102)	30-150

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column
* Out side of QC Limit

QC SUMMARIES

SW3550B/8082
PCBs

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/21/11
Batch No.	: 11D182	Date Extracted:	04/21/11 12:37
Sample ID:	MBLK1S	Date Analyzed:	04/21/11 21:51
Lab Samp ID:	60D024SB	Dilution Factor:	1
Lab File ID:	KD21036A	Matrix :	SOIL
Ext Btch ID:	CPD024S	% Moisture :	NA
Calib. Ref.:	KD21028A	Instrument ID :	GCT071

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
PCB-1016	(ND)|ND	40	17|17
PCB-1221	(ND)|ND	40	17|17
PCB-1232	(ND)|ND	40	17|17
PCB-1242	(ND)|ND	40	17|17
PCB-1248	(ND)|ND	40	17|17
PCB-1254	(ND)|ND	40	17|17
PCB-1260	(ND)|ND	40	17|17

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	11.57|(13.11)	13.33	86.8|(98.4)	40-130
DECACHLOROBIPHENYL	12.63|(14.28)	13.33	94.7|(107)	40-160

PQL: Practical Quantitation Limit
Left of | is related to first column ; Right of | related to second column
( ) included the reported column
* Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: SW3550B/8082

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	60D024SB	60D024SL	60D024SC		
LAB FILE ID:	KD21036A	KD21037A	KD21038A		
DATE EXTRACTED:	04/21/1112:37	04/21/1112:37	04/21/1112:37	DATE COLLECTED:	NA
DATE ANALYZED:	04/21/1121:51	04/21/1122:12	04/21/1122:33	DATE RECEIVED:	04/21/11
PREP. BATCH:	CPD024S	CPD024S	CPD024S		
CALIB. REF:	KD21028A	KD21028A	KD21028A		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
PCB-1016	(ND) | ND	167	179 | (196)	107 | (118)	167	168 | (189)	101 | (113)	6 | (4)	50-130	50
PCB-1260	(ND) | ND	167	182 | (186)	109 | (112)	167	180 | (184)	108 | (110)	1 | (1)	70-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	12.51 | (13.20)	93.9 | (99.0)	13.33	12.20 | (13.01)	91.5 | (97.6)	40-130
Decachlorobiphenyl	13.33	13.00 | (14.72)	97.5 | (110)	13.33	12.84 | (14.58)	96.3 | (109)	40-160

5965

INITIAL CALIBRATIONS

INITIAL CALIBRATION
METHOD EPA 8082

Lab Name : EMAX Inc
Instrument ID : GCT071 HP-5890
GC Column : ZB-MULTIRESIDUE-1
Column size ID : .32MMX30M
LFID & Datetime: KA27011A 01/27/11 17:45
LFID & Datetime: KA27012A 01/27/11 18:07
LFID & Datetime: KA27013A 01/27/11 18:29
LFID & Datetime: KA27014A 01/27/11 18:50
LFID & Datetime: KA27015A 01/27/11 19:12
LFID & Datetime: KA27016A 01/27/11 19:34
LFID & Datetime: KA27017A 01/27/11 19:56
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	5.00X	10.00X	15.00X	20.00X	30.00X	MEAN	%RSD
PCB1016-1	10.00	1136.90	1098.50	1049.28	1009.30	958.59	952.60	913.93	1017.016	8.1
PCB1016-2	10.00	1631.10	1448.90	1400.88	1346.47	1300.31	1293.55	1233.31	1379.218	9.6
PCB1016-3	10.00	3618.70	3520.30	3473.04	3569.66	3416.89	3471.52	3379.00	3492.730	2.4
PCB1016-4	10.00	1717.50	1647.50	1641.04	1571.68	1569.76	1574.93	1542.67	1609.296	3.8
PCB1016-5	10.00	1013.60	993.30	997.80	976.18	966.81	983.21	973.23	986.304	1.7
PCB1260-1	10.00	3014.70	2817.15	2640.38	2523.11	2375.49	2348.11	2224.26	2563.315	10.9
PCB1260-2	10.00	3906.60	3776.90	3656.36	3627.90	3496.63	3484.80	3408.79	3622.569	4.9
PCB1260-3	10.00	2376.50	2407.75	2183.28	2122.95	2070.47	2072.47	2013.69	2178.159	7.1
PCB1260-4	10.00	4574.80	4348.40	4179.14	4128.83	3987.70	4012.50	3891.22	4160.371	5.7
PCB1260-5	10.00	2662.50	2474.60	2410.28	2417.58	2350.95	2385.78	2335.75	2433.920	4.5
SURROGATE	X	1.00X	2.00X	5.00X	10.00X	15.00X	20.00X	30.00X	MEAN	%RSD
TCX	2.50	7767.20	7648.40	7854.64	8253.32	8234.72	8588.46	8681.12	8146.837	5.0
DCB	2.50	11253	10531	10232	10053	9651	9707	9432	10122.6	6.2

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5048

INITIAL CALIBRATION
METHOD EPA 8082

Lab Name : EMAX Inc
Instrument ID : GCT071 HP-5890
GC Column : ZB-MULTIRESIDUE-2
Column size ID : .32MMX30M
LFID & Datetime: KA27011B 01/27/11 17:45
LFID & Datetime: KA27012B 01/27/11 18:07
LFID & Datetime: KA27013B 01/27/11 18:29
LFID & Datetime: KA27014B 01/27/11 18:50
LFID & Datetime: KA27015B 01/27/11 19:12
LFID & Datetime: KA27016B 01/27/11 19:34
LFID & Datetime: KA27017B 01/27/11 19:56
CONC UNIT: PPB

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT 1.00X	2.00X	5.00X	10.00X	15.00X	20.00X	30.00X	MEAN	%RSD
PCB1016-1	10.00	3028.10	2920.80	2804.08	2534.74	2435.97	2293.40	2164.17	2597.324	12.6
PCB1016-2	10.00	7148.60	6678.55	6197.44	5635.95	5194.03	4815.69	4490.49	5737.251	17.1
PCB1016-3	10.00	4498.30	4071.30	4121.32	3800.05	3502.57	3233.39	2993.24	3745.738	14.2
PCB1016-4	10.00	9755.50	9234.95	9251.28	8701.16	8239.13	7935.79	7503.83	8660.234	9.3
PCB1016-5	10.00	3071.00	2921.40	2971.44	2882.29	2709.16	2654.73	2556.02	2823.720	6.6
PCB1260-1	10.00	8137.90	7534.15	6900.70	6328.85	5837.43	5672.80	5260.57	6524.629	16.1
PCB1260-2	10.00	8656.70	7709.80	7245.30	6847.26	6381.66	6267.81	5912.33	7002.979	13.6
PCB1260-3	10.00	10630.20	9528.70	9126.74	8616.35	8263.11	8206.51	7802.29	8881.986	10.9
PCB1260-4	10.00	7507.40	6581.90	6202.34	5904.93	5257.67	5051.90	4824.63	5904.395	16.1
PCB1260-5	10.00	12227	12566	11490	10976	10400	10243	9851	11107.5	9.3
SURROGATE	X	1.00X	2.00X	5.00X	10.00X	15.00X	20.00X	30.00X	MEAN	%RSD
TCX	2.50	24645	22733	22998	22758	22190	22295	21754	22767.7	4.1
DCB	2.50	27022	26898	26916	26192	24552	23999	22906	25497.9	6.5

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5049

SECOND SOURCE VERIFICATION

INITIAL CALIBRATION VERIFICATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT071 HP-5890
GC Columm : ZB-MULTIRESIDUE-1
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: KA27014A 01/27/2011 18:50
Conc Cont LFID & Datetime: KA27018A 01/27/2011 20:18
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB1016				500.0			502.249	0		15
PCB1260				500.0			508.755	2		15

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	2.608	2.580	2.636	25.0	8146.8	192158	23.59	-6		15
DCB	14.150	14.087	14.213	25.0	10122.6	233872	23.10	-8		15

2/31/11

5051

INITIAL CALIBRATION VERIFICATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT071 HP-5890
GC Columm : ZB-MULTIRESIDUE-2
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: KA27014B 01/27/2011 18:50
Conc Cont LFID & Datetime: KA27018B 01/27/2011 20:18
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB1016				500.0			511.043	2		15
PCB1260				500.0			483.525	3		15

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	1.925	1.887	1.963	25.0	22767.7	537845	23.62	-6		15
DCB	10.892	10.840	10.944	25.0	25497.9	604767	23.72	-5		15

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DAILY CALIBRATIONS

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT071 HP-5890
GC Columm : ZB-MULTIRESIDUE-1
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: KA27014A 01/27/2011 18:50
Conc Cont LFID & Datetime: KD21028A 04/21/2011 19:03
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB1016				500.0			501.169	0		20
PCB1260				500.0			509.323	2		20

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	2.700	2.672	2.728	25.0	8146.8	214660	26.35	5		20
DCB	14.375	14.312	14.438	25.0	10122.6	263209	26.00	4		20

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT071 HP-5890
GC Columm : ZB-MULTIRESIDUE-2
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: KA27014B 01/27/2011 18:50
Conc Cont LFID & Datetime: KD21028B 04/21/2011 19:03
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB1016				500.0			536.030	7		20
PCB1260				500.0			535.104	7		20
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
TCX	2.000	1.962	2.038	25.0	22767.7	607912	26.70	7		20
DCB	11.042	10.990	11.094	25.0	25497.9	753557	29.55	18		20

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT071 HP-5890
GC Columm : ZB-MULTIRESIDUE-1
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: KA27014A 01/27/2011 18:50
Conc Cont LFID & Datetime: KD21041A 04/21/2011 23:35
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB1016				500.0			501.627	0		20
PCB1260				500.0			510.781	2		20

SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
TCX	2.700	2.672	2.728	25.0	8146.8	213796	26.24	5		20
DCB	14.375	14.312	14.438	25.0	10122.6	258557	25.54	2		20

CONTINUE CALIBRATION
METHOD EPA 8082

Lab Name : EMAX
Instrument ID : GCT071 HP-5890
GC Columm : ZB-MULTIRESIDUE-2
Column size ID : .32MMX30M
Mid Conc Init LFID & Datetime: KA27014B 01/27/2011 18:50
Conc Cont LFID & Datetime: KD21041B 04/21/2011 23:35
CONC UNIT : PPB

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	SUM CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
PCB1016				500.0			533.753	7		20
PCB1260				500.0			539.676	8		20
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
TCX	2.000	1.962	2.038	25.0	22767.7	609109	26.75	7		20
DCB	11.042	10.990	11.094	25.0	25497.9	773656	30.34	21	*	20

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
PESTICIDES/PCBs

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

1242	ICV	SS1B-06-80-2	100/2000 ppb
1262	ICAL	SS1B-06-79-2	100/2000 ppb
1262	ICV	SS1B-06-81-3	100/2000 ppb
1268	ICAL	SS1B-06-~~79~~-3 JF 1-27-11	100/2000 ppb
1268	ICV	SS1B-06-82-1	100/2000 ppb

Book #: A71-027

Instrument No.: 71

Analytical Sequence: KA27

Method File: 3271A27, 2171A27, 6871A27, 6271A27, 6071A27, 5471A27, 4871A27, 4271A27

Analytical Batch: KA27014

SOP #	Rev. #
☐ EMAX-8081	6
☒ EMAX-8082	2
☐ EMAX-608	0
☐ EMAX-CLP-PEST	
☐ EMAX-	

ICAL REFERENCE

ICAL ID	BATCH	DATE
6071A27, 5471A27	KA27	1-27-11
4871A27, 4271A27	KA27	1-27-11
2171A27, 3271A27	KA27	1-27-11
6871A27	KA27	1-27-11
6271A27	KA27	1-27-11

STANDARDS ID		Conc (µg/L)
Hexane	50283	N.A.
1660 ICAL	SS1B-06-75-2	100/2000 ppb
1660 ICV	SS1B-06-81-2	100/2000 ppb
1254 ICAL	SS1B-06-75-3	100/2000 ppb
1254 ICV	SS1B-06-81-1	100/2000 ppb
1248 ICAL	SS1B-06-76-1	100/2000 ppb
1248 ICV	SS1B-06-80-3	100/2000 ppb
1221 ICAL	SS1B-06-78-2	100/2000 ppb
1221 ICV	SS1B-06-80-1	100/2000 ppb
1232 ICAL	SS1B-06-78-3	100/2000 ppb
1232 ICV	SS1B-06-74-2	100/2000 ppb
1242 ICAL	SS1B-06-79-1	100/2000 ppb

Column	(A) ZB-MULTI RES I (B) ZB-MULTI RES II

ELECTRONIC DATA ARCHIVAL

Location	Date
☐ EZC_4_Pesticides	
☐ EZC_10_Pesticides	

Analyzed By: JF Date: 1-27-11

Date Disposed: Disposed By:

This page is checked during data review.

Run	Sample ID	Method	Filename	Mult.	Description
1	IB71A2701	6071a27.met	KA27.001	1	
2	P1671A2701 1016	6071a27.met	KA27.002	1	
3	P2171A2701 1221	2171a27.met	KA27.003	1	
4	P3271A2701 1232	3271a27.met	KA27.004	1	
5	P4271A2701 1242	4271a27.met	KA27.005	1	
6	P4871A2701 1248	4871a27.met	KA27.006	1	
7	P5471A2701 1254	5471a27.met	KA27.007	1	
8	P6071A2701 1260	6071a27.met	KA27.008	1	
9	P6271A2701 1262	6271a27.met	KA27.009	1	
10	P6871A2701 1268	6871a27.met	KA27.010	1	
11	6071A2701 50PPB	6071a27.met	KA27.011	1	
12	6071A2702 100PPB	6071a27.met	KA27.012	1	
13	6071A2703 250PPB	6071a27.met	KA27.013	1	
14	6071A2704 500PPB	6071a27.met	KA27.014	1	
15	6071A2705 750PPB	6071a27.met	KA27.015	1	
16	6071A2706 1000PPB	6071a27.met	KA27.016	1	
17	6071A2707 1500PPB	6071a27.met	KA27.017	1	
18	I6071A2701 500PPB	6071a27.met	KA27.018	1	
19	5471A2701 50PPB	5471a27.met	KA27.019	1	
20	5471A2702 100PPB	5471a27.met	KA27.020	1	
21	5471A2703 250PPB	5471a27.met	KA27.021	1	
22	5471A2704 500PPB	5471a27.met	KA27.022	1	
23	5471A2705 750PPB	5471a27.met	KA27.023	1	
24	5471A2706 1000PPB	5471a27.met	KA27.024	1	

Run	Sample ID	Method	Filename	Mult.	Description
25	5471A2707 1500PPB	5471a27.met	KA27.025	1	
26	I5471A2701 500PPB	5471a27.met	KA27.026	1	
27	4871A2701 50PPB	4871a27.met	KA27.027	1	
28	4871A2702 100PPB	4871a27.met	KA27.028	1	
29	4871A2703 250PPB	4871a27.met	KA27.029	1	
30	4871A2704 500PPB	4871a27.met	KA27.030	1	
31	4871A2705 750PPB	4871a27.met	KA27.031	1	
32	4871A2706 1000PPB	4871a27.met	KA27.032	1	
33	4871A2707 1500PPB	4871a27.met	KA27.033	1	
34	I4871A2701 500PPB	4871a27.met	KA27.034	1	
35	2171A2701 50PPB	2171a27.met	KA27.035	1	
36	2171A2702 100PPB	2171a27.met	KA27.036	1	
37	2171A2703 250PPB	2171a27.met	KA27.037	1	
38	2171A2704 500PPB	2171a27.met	KA27.038	1	
39	2171A2705 750PPB	2171a27.met	KA27.039	1	
40	2171A2706 1000PPB	2171a27.met	KA27.040	1	
41	2171A2707 1500PPB	2171a27.met	KA27.041	1	
42	I2171A2701 500PPB	2171a27.met	KA27.042	1	
43	3271A2701 50PPB	3271a27.met	KA27.043	1	
44	3271A2702 100PPB	3271a27.met	KA27.044	1	
45	3271A2703 250PPB	3271a27.met	KA27.045	1	
46	3271A2704 500PPB	3271a27.met	KA27.046	1	
47	3271A2705 750PPB	3271a27.met	KA27.047	1	
48	3271A2706 1000PPB	3271a27.met	KA27.048	1	

Run	Sample ID	Method	Filename	Mult.	Description
49	3271A2707 1500PPB	3271a27.met	KA27.049	1	
50	I3271A2701 500PPB	3271a27.met	KA27.050	1	
51	4271A2701 50PPB	4271a27.met	KA27.051	1	
52	4271A2702 100PPB	4271a27.met	KA27.052	1	
53	4271A2703 250PPB	4271a27.met	KA27.053	1	
54	4271A2704 500PPB	4271a27.met	KA27.054	1	
55	4271A2705 750PPB	4271a27.met	KA27.055	1	
56	4271A2706 1000PPB	4271a27.met	KA27.056	1	
57	4271A2707 1500PPB	4271a27.met	KA27.057	1	
58	I4271A2701 500PPB	4271a27.met	KA27.058	1	
59	6271A2701 50PPB	6271a27.met	KA27.059	1	
60	6271A2702 100PPB	6271a27.met	KA27.060	1	
61	6271A2703 250PPB	6271a27.met	KA27.061	1	
62	6271A2704 500PPB	6271a27.met	KA27.062	1	
63	6271A2705 750PPB	6271a27.met	KA27.063	1	
64	6271A2706 1000PPB	6271a27.met	KA27.064	1	
65	6271A2707 1500PPB	6271a27.met	KA27.065	1	
66	I6271A2701 500PPB	6271a27.met	KA27.066	1	
67	6871A2701 50PPB	6871a27.met	KA27.067	1	
68	6871A2702 100PPB	6871a27.met	KA27.068	1	
69	6871A2703 250PPB	6871a27.met	KA27.069	1	
70	6871A2704 500PPB	6871a27.met	KA27.070	1	
71	6871A2705 750PPB	6871a27.met	KA27.071	1	
72	6871A2706 1000PPB	6871a27.met	KA27.072	1	

Run	Sample ID	Method	Filename	Mult.	Description
73	6871A2707 1500PPB	6871a27.met	KA27.073	1	
74	I6871A2701 500PPB	6871a27.met	KA27.074	1	
75	I2171A2702 500PPB	2171a27.met	KA27.075	1	
76	IB	6071a27.met	KA27.076	1	
77	IB	6071a27.met	KA27.077	1	
78	IB	6071a27.met	KA27.078	1	
79	IB	6071a27.met	KA27.079	1	
80	IB	6071a27.met	KA27.080	1	
81	IB	6071a27.met	KA27.081	1	
82	IB	6071a27.met	KA27.082	1	
83	IB	6071a27.met	KA27.083	1	
84	IB	6071a27.met	KA27.084	1	
85	IB	6071a27.met	KA27.085	1	
86	IB	6071a27.met	KA27.086	1	
87	IB	6071a27.met	KA27.087	1	
88	IB	6071a27.met	KA27.088	1	
89	IB	6071a27.met	KA27.089	1	
90	IB	6071a27.met	KA27.090	1	
91	IB	6071a27.met	KA27.091	1	
92	IB	6071a27.met	KA27.092	1	
93	IB	6071a27.met	KA27.093	1	
94	IB	6071a27.met	KA27.094	1	
95	IB	6071a27.met	KA27.095	1	
96	IB	6071a27.met	KA27.096	1	

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
PESTICIDES/PCBs

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A71-028

Instrument No.: 71

Analytical Sequence: KD21

Method File: 4271A27, 6271A27, 6871A27, 2171A27, 6071A27, 5471A27, 4871A27, 3271A27

Analytical Batch: KD21002

SOP #	Rev. #
☐ EMAX-8081	7
☒ EMAX-8082	3
☐ EMAX-608	1
☐ EMAX-CLP-PEST	
☐ EMAX-	

ICAL REFERENCE

ICAL ID	BATCH	DATE
6071A27	KA27	1-27-2011
5471A27	KA27	1-27-2011
2171A27, 3271A27	KA27	1-27-2011
4271A27, 4871A27	KA27	1-27-2011
6271A27, 6871A27	KA27	1-27-2011

STANDARDS ID		Conc (µg/L)
Hexane	50283	N.A
1660 ICAL	SS1B-06-75-2	100/2000
1254 ICAL	SS1B-06-75-3	100/2000
1248 ICAL	SS1B-06-76-1	100/2000
1221 ICAL	SS1B-06-78-2	100/2000
1232 ICAL	SS1B-06-78-3	100/2000
1242 ICAL	SS1B-06-79-1	100/2000
1262 ICAL	SS1B-06-79-2	100/2000
1268 ICAL	SS1B-06-79-3	100/2000

Column	A. ZB-MULTI RES I / B. ZB-MULTI RES II

ELECTRONIC DATA ARCHIVAL

Location	Date
☐ EZC_4_Pesticides	
☐ EZC_10_Pesticides	

Analyzed By: SD Date: 4-21-11

Date Disposed: 4-22-11 Disposed By: SD

This page is checked during data review.

Run	Sample ID	Method	Filename	Mult.	Description
26	LOD-40 (68)	6871a27.met	KD21.026	1	
27	IB71A27192	6071a27.met	KD21.027	1	
28	C6071A27192	6071a27.met	KD21.028	1	
29	C2171A27192	2171a27.met	KD21.029	1	
30	C3271A27192	3271a27.met	KD21.030	1	
31	C4271A27192	4271a27.met	KD21.031	1	
32	C4871A27192	4871a27.met	KD21.032	1	
33	C5471A27192	5471a27.met	KD21.033	1	
34	C6271A27192	6271a27.met	KD21.034	1	
35	C6871A27192	6871a27.met	KD21.035	1	
36	60D024SB	6071a27.met	KD21.036	1	
37	60D024SL	6071a27.met	KD21.037	1	
38	60D024SC	6071a27.met	KD21.038	1	
39	D182-14	6071a27.met	KD21.039	1	
40	IB71A27193	6071a27.met	KD21.040	1	
41	C6071A27193	6071a27.met	KD21.041	1	
42	C4871A27193	4871a27.met	KD21.042	1	
43	C5471A27193	5471a27.met	KD21.043	1	

EXTRACTION LOG

EMAX LABORATORIES, INC.

EXTRACTION LOG
for
PESTICIDES/PCBs

SOP	Rev. #
☐ EMAX-3510	1
☐ EMAX-3520	4
☐ EMAX-3540	1
☑ EMAX-3550	3
☐ EMAX-3580	1
☐ EMAX-CLP-PEST	
☐ EMAX-	
Micropipette ID:	
Micropipette ID:	

Note: For samples, relevant QCs/Standards extracted, refer to attached extraction sequence.

Comments:

LAB SAMPLE ID	SONICATOR #	THREE VAP # (35/60°C)
CPD024-SP	4	1/5
-SL,SC	6	1/5
60D024-SL,SC	4	1/5
D182-14	4	1/5
D192-06,11	6	2/5
-11M,11S	6	2/5
D208-02	4	2/5
-08,12	6	3/5
-16	4	3/5

Book #: ECP-054

Preparation Batch: CPD024S

Matrix: SOIL

STANDARDS	ID	Amount Added (ml)
Surrogate	SSIC-06-35-3	1.0
LCS/MS (PEST)	SSIC-06-36-1	0.75
LCS/MS (PCB)	SSIC-06-35-2	0.50
LCS/MS		

Reagents	Lot# / ID
CH_2Cl_2	50294
Hexane	50283
Na_2SO_4	SWB-002-09-05
H_2SO_4	50103
TBA Reagent	
Silica Sand	78686
Florisil	-

Tuning

Sonicator #	Reading
4	470
6	25%

Concentrator Water Bath Temp. (°C)		
1	35	35
2	35	35
3	35	35
4		
5	60	60
6		

Test Thermometer = T_1

Prepared By: JM

Checked By: JB

Witnessed By: CS

Received By: 4-21-11

Standards Added By: JM

Disposed By:

Extract Location: SF02 # 09

Disposal Date:

JM 4/21/11

EMAX LABORATORIES, INC.

FileID: CPD024S

EXTRACTION LOG FOR PESTICIDES

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Ve(ml)	ExpAmt	ExpVe(ml)	PrepFctr	Comments
11CPD024S01	CPD024SB	30	g	4/21/11 10:52	10	30	10	1	
11CPD024S02	CPD024SL	30	g	4/21/11 10:52	10	30	10	1	
11CPD024S03	CPD024SC	30	g	4/21/11 10:52	10	30	10	1	
11CPD024S04	60D024SL	30	g	4/21/11 10:54	10	30	10	1	
11CPD024S05	60D024SC	30	g	4/21/11 10:59	10	30	10	1	
11CPD024S06	D182-14	30.02	g	4/21/11 10:55	10	30	10	1	Split sample for PCB Acid Clean-Up.
11CPD024S07	D192-06	30.03	g	4/21/11 10:57	10	30	10	1	
11CPD024S08	D192-11	30.03	g	4/21/11 10:57	10	30	10	1	
11CPD024S09	D192-11M	30.02	g	4/21/11 10:58	10	30	10	1	PEST.
11CPD024S10	D192-11S	30.01	g	4/21/11 10:58	10	30	10	1	PEST.
11CPD024S11	D208-02	30	g	4/21/11 11:58	10	30	10	1	
11CPD024S12	D208-08	30.02	g	4/21/11 11:59	10	30	10	1	
11CPD024S13	D208-12	30.02	g	4/21/11 11:59	10	30	10	1	
11CPD024S14	D208-16	30.01	g	4/21/11 11:59	10	30	10	1	
11CPD024S15	60d024SB	30	g	4/21/11 15:16	10	30	10	1	Split sample fr. CPD024SB for PCB
									Acid Clean-up.

Balance ID: 10203192. Calibration check was verified prior to use.

Ve=extract volume

PrepFctr=(ExpAmt/Aliquot)(Ve/ExpVe)

☑ Extraction Started @ 4/21/11 12:37

Prepared By: jvillena

☑ Extraction Ended @ 4/21/11 15:17

Checked By: JM

Comments:

Date 4/21/11

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS / MERCURY

SDG#: 11D182

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of ten (10) soil samples were received on 04/16/11 for Metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPD039SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries were within project QC limits except for one result qualified with [*] in D182-10 M/S summary form, most likely due to matrix interference. Check QC summary form for details.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD039SB	1	NA	04/21/1120:57	04/19/1115:30	ID8D024119	ID8D024117	IPD039S	Method Blank
LCS1S	IPD039SL	1	NA	04/21/1121:00	04/19/1115:30	ID8D024120	ID8D024117	IPD039S	Lab Control Sample (LCS)
LCD1S	IPD039SC	1	NA	04/21/1121:03	04/19/1115:30	ID8D024121	ID8D024117	IPD039S	LCS Duplicate
CB237-12-01AS	D182-10A	9.17	17.0	04/22/1112:16	04/19/1115:30	ID8D025023	ID8D025020	IPD039S	Analytical Spike Sample
CB237-12-01	D182-10T	9.17	17.0	04/22/1112:19	04/19/1115:30	ID8D025024	ID8D025020	IPD039S	Diluted Sample
CB237-12-01DL	D182-10J	45.9	17.0	04/22/1112:21	04/19/1115:30	ID8D025025	ID8D025020	IPD039S	Diluted Sample
CB237-12-01MS	D182-10G	8.55	17.0	04/22/1112:24	04/19/1115:30	ID8D025026	ID8D025020	IPD039S	Matrix Spike Sample (MS)
CB237-12-01MSD	D182-10H	7.52	17.0	04/22/1112:27	04/19/1115:30	ID8D025027	ID8D025020	IPD039S	MS Duplicate (MSD)
CB146-01-02	D182-02	0.735	20.0	04/21/1121:30	04/19/1115:30	ID8D024131	ID8D024129	IPD039S	Field Sample
CB146-01-02FD	D182-03	0.893	19.8	04/21/1121:32	04/19/1115:30	ID8D024132	ID8D024129	IPD039S	Field Sample
CB231-18-02	D182-05	0.833	19.4	04/21/1121:38	04/19/1115:30	ID8D024134	ID8D024129	IPD039S	Field Sample
CB146-02-01	D182-06	0.971	19.2	04/21/1121:41	04/19/1115:30	ID8D024135	ID8D024129	IPD039S	Field Sample
CB237-10-01	D182-08	0.833	20.3	04/21/1121:46	04/19/1115:30	ID8D024137	ID8D024129	IPD039S	Field Sample
CB237-10-02	D182-09	0.719	16.7	04/21/1121:49	04/19/1115:30	ID8D024138	ID8D024129	IPD039S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/12/11 17:30
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB146-01-02	Date Analyzed:	04/21/11 21:30
Lab Samp ID:	D182-02	Dilution Factor:	0.735
Lab File ID:	ID8D024131	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	20.0
Calib. Ref.:	ID8D024129	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.19	0.919	0.184

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/12/11 17:30
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB146-01-02FD	Date Analyzed:	04/21/11 21:32
Lab Samp ID:	D182-03	Dilution Factor:	0.893
Lab File ID:	ID8D024132	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	19.8
Calib. Ref.:	ID8D024129	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.81	1.11	0.223

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/12/11 09:35
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB231-18-02	Date Analyzed:	04/21/11 21:38
Lab Samp ID:	D182-05	Dilution Factor:	0.833
Lab File ID:	ID8D024134	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	19.4
Calib. Ref.:	ID8D024129	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	16.2	1.03	0.207

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/12/11 07:45
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB146-02-01	Date Analyzed:	04/21/11 21:41
Lab Samp ID:	D182-06	Dilution Factor:	0.971
Lab File ID:	ID8D024135	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	19.2
Calib. Ref.:	ID8D024129	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	42.1	1.20	0.240

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/11/11 14:00
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB237-10-01	Date Analyzed:	04/21/11 21:46
Lab Samp ID:	D182-08	Dilution Factor:	0.833
Lab File ID:	ID8D024137	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	20.3
Calib. Ref.:	ID8D024129	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.58	1.05	0.209

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/11/11 14:05
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB237-10-02	Date Analyzed:	04/21/11 21:49
Lab Samp ID:	D182-09	Dilution Factor:	0.719
Lab File ID:	ID8D024138	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	16.7
Calib. Ref.:	ID8D024129	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.592J	0.863	0.173

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/11/11 12:05
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB237-12-01	Date Analyzed:	04/22/11 12:19
Lab Samp ID:	D182-10T	Dilution Factor:	9.17
Lab File ID:	ID8D025024	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	17.0
Calib. Ref.:	ID8D025020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	30.8	11.0	2.21

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/19/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	MBLK1S	Date Analyzed:	04/21/11 20:57
Lab Samp ID:	IPD039SB	Dilution Factor:	1
Lab File ID:	ID8D024119	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	NA
Calib. Ref.:	ID8D024117	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPD039SB	IPD039SL	IPD039SC		
LAB FILE ID:	ID8D024119	ID8D024120	ID8D024121		
DATIME EXTRCTD:	04/19/1115:30	04/19/1115:30	04/19/1115:30	DATE COLLECTED:	NA
DATIME ANALYZD:	04/21/1120:57	04/21/1121:00	04/21/1121:03	DATE RECEIVED:	04/19/11
PREP. BATCH:	IPD039S	IPD039S	IPD039S		
CALIB. REF:	ID8D024117	ID8D024117	ID8D024117		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	48.4	97	50	47.6	95	2	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	17.0
DILTN FACTR:	9.17	8.55	7.52		
SAMPLE ID:	CB237-12-01				
CONTROL NO.:	D182-10T	D182-10G	D182-10H		
LAB FILE ID:	ID8D025024	ID8D025026	ID8D025027		
DATIME EXTRCTD:	04/19/1115:30	04/19/1115:30	04/19/1115:30	DATE COLLECTED:	04/11/11 12:05
DATIME ANALYZD:	04/22/1112:19	04/22/1112:24	04/22/1112:27	DATE RECEIVED:	04/16/11
PREP. BATCH:	IPD039S	IPD039S	IPD039S		
CALIB. REF:	ID8D025020	ID8D025020	ID8D025020		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	30.8	51.5	86	107	45.3	76.1	100	12	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.0
DILUTION FACTOR:	9.17	45.9		
SAMPLE ID:	CB237-12-01	CB237-12-01DL		
EMAX SAMP ID:	D182-10T	D182-10J		
LAB FILE ID:	ID8D025024	ID8D025025		
DATE EXTRACTED:	04/19/1115:30	04/19/1115:30	DATE COLLECTED:	04/11/11 12:05
DATE ANALYZED:	04/22/1112:19	04/22/1112:21	DATE RECEIVED:	04/16/11
PREP. BATCH:	IPD039S	IPD039S		
CALIB. REF:	ID8D025020	ID8D025020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	30.8	30.9J	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 3050B/6010B

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MATRIX: SOIL % MOISTURE: 17.0
DILTN FACTR: 9.17 9.17
SAMPLE ID: CB237-12-01
CONTROL NO.: D182-10T D182-10A
LAB FILE ID: ID8D025024 ID8D025023
DATIME EXTRCTD: 04/19/1115:30 04/19/1115:30 DATE COLLECTED: 04/11/11 12:05
DATIME ANALYZD: 04/22/1112:19 04/22/1112:16 DATE RECEIVED: 04/16/11
PREP. BATCH: IPD039S IPD039S
CALIB. REF: ID8D025020 ID8D025020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	30.8	552	536	91	75-125

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD039SB	1	NA	04/21/1120:57	04/19/1115:30	ID8D024119	ID8D024117	IPD039S	Method Blank
LCS1S	IPD039SL	1	NA	04/21/1121 00	04/19/1115:30	ID8D024120	ID8D024117	IPD039S	Lab Control Sample (LCS)
LCD1S	IPD039SC	1	NA	04/21/1121:03	04/19/1115:30	ID8D024121	ID8D024117	IPD039S	LCS Duplicate
CB237-12-01AS	D182-10A	9.17	17.0	04/22/1112:16	04/19/1115:30	ID8D025023	ID8D025020	IPD039S	Analytical Spike Sample
CB237-12-01	D182-10T	9.17	17.0	04/22/1112:19	04/19/1115:30	ID8D025024	ID8D025020	IPD039S	Diluted Sample
CB237-12-01DL	D182-10J	45.9	17.0	04/22/1112:21	04/19/1115:30	ID8D025025	ID8D025020	IPD039S	Diluted Sample
CB146-01-01	D182-01	0.962	20.3	04/21/1121:19	04/19/1115:30	ID8D024127	ID8D024117	IPD039S	Field Sample
CB231-18-01	D182-04	0.813	19.6	04/21/1121:35	04/19/1115:30	ID8D024133	ID8D024129	IPD039S	Field Sample
CB146-02-02	D182-07T	8.06	15.8	04/22/1112:32	04/19/1115:30	ID8D025029	ID8D025020	IPD039S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/12/11 17:25
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB146-01-01	Date Analyzed:	04/21/11 21:19
Lab Samp ID:	D182-01	Dilution Factor:	0.962
Lab File ID:	ID8D024127	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	20.3
Calib. Ref.:	ID8D024117	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	13.0	1.21	0.241
Zinc	1900	2.41	1.21

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/12/11 09:30
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB231-18-01	Date Analyzed:	04/21/11 21:35
Lab Samp ID:	D182-04	Dilution Factor:	0.813
Lab File ID:	ID8D024133	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	19.6
Calib. Ref.:	ID8D024129	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	13.4	1.01	0.202
Zinc	2770	2.02	1.01

METHOD 3050B/6010B
METALS BY TRACE ICP

Client :	CH2M HILL	Date Collected:	04/12/11 17:50
Project :	TAR CREEK OU4	Date Received:	04/16/11
SDG NO. :	11D182	Date Extracted:	04/19/11 15:30
Sample ID:	CB146-02-02	Date Analyzed:	04/22/11 12:32
Lab Samp ID:	D182-07T	Dilution Factor:	8.06
Lab File ID:	ID8D025029	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	15.8
Calib. Ref.:	ID8D025020	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	41.3	9.57	1.91
Zinc	5730	19.1	9.57

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/19/11
SDG NO.	: 11D182	Date Extracted:	04/19/11 15:30
Sample ID:	MBLK1S	Date Analyzed:	04/21/11 20:57
Lab Samp ID:	IPD039SB	Dilution Factor:	1
Lab File ID:	ID8D024119	Matrix :	SOIL
Ext Btch ID:	IPD039S	% Moisture :	NA
Calib. Ref.:	ID8D024117	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPD039SB	IPD039SL	IPD039SC		
LAB FILE ID:	ID8D024119	ID8D024120	ID8D024121		
DATIME EXTRCTD:	04/19/1115:30	04/19/1115:30	04/19/1115:30	DATE COLLECTED:	NA
DATIME ANALYZD:	04/21/1120:57	04/21/1121:00	04/21/1121:03	DATE RECEIVED:	04/19/11
PREP. BATCH:	IPD039S	IPD039S	IPD039S		
CALIB. REF:	ID8D024117	ID8D024117	ID8D024117		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	48.4	97	50	47.6	95	2	80-120	20
Zinc	ND	50	53.6	107	50	52.7	105	2	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	17.0
DILUTION FACTOR:	9.17	45.9		
SAMPLE ID:	CB237-12-01	CB237-12-01DL		
EMAX SAMP ID:	D182-10T	D182-10J		
LAB FILE ID:	ID8D025024	ID8D025025		
DATE EXTRACTED:	04/19/1115:30	04/19/1115:30	DATE COLLECTED:	04/11/11 12:05
DATE ANALYZED:	04/22/1112:19	04/22/1112:21	DATE RECEIVED:	04/16/11
PREP. BATCH:	IPD039S	IPD039S		
CALIB. REF:	ID8D025020	ID8D025020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	30.8	30.9J	NA	10
Zinc	4460	4420	1	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	17.0
DILTN FACTR:	9.17	9.17		
SAMPLE ID:	CB237-12-01			
CONTROL NO.:	D182-10T	D182-10A		
LAB FILE ID:	ID8D025024	ID8D025023		
DATIME EXTRCTD:	04/19/1115:30	04/19/1115:30	DATE COLLECTED:	04/11/11 12:05
DATIME ANALYZD:	04/22/1112:19	04/22/1112:16	DATE RECEIVED:	04/16/11
PREP. BATCH:	IPD039S	IPD039S		
CALIB. REF:	ID8D025020	ID8D025020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	30.8	552	536	91	75-125
Zinc	4460	552	5150	126*	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/21/11 15:24

End Date: 4/21/11 23:43

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Book #: AD8-019

Instrument No.: D8

Analytical Batch: 1D8D624

Analytical Sequence: S-11 D6010 (V25)

Method File: 11D6010(V25)

Database: Emax 13

Comments: -ICSA1 Cd, Pb >LOD in method 11D6010(V24). Uplate IEC saved as 11D6010(V25).
- ICSA1 Na>LOD.
- CCB7 Al, K, Na>LOD
- D182-10 Zn>DR. Needs dilution
  06
  07
- D465-01 Ca>DR. Needs dilution since Ca interfers w/ Pb
  05
  07
  10
  11
  13
  15
  16

	STANDARDS ID		STANDARDS ID
S0	SMIB14-5004	S30	SMIB14-4201
S1	MA	S31	4202
S2		ICV	5412
S3		CCV	7005
S4		ICSA	5001
S5		ICSAB	4601
S6		MLCV	MA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SMIB14-4109
S10		MRL2	5302
S11			
S12			
S16			
S17			
S18			
S20	SMIB14-3102		
S21	3702		
S22	3703		
S23	3704		
S24	40-01		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Analyzed By: TH

Date: 4/22/11

7024

SEQUENCE FILE : ID8D024

4-18 LFID	19-33 LSID	34-43 TIME	44-53 DATE	54-63 DF
ID8D024001	Blank	15:24	04/21/11	1.000
ID8D024002	S20	15:27	04/21/11	1.000
ID8D024003	S21	15:30	04/21/11	1.000
ID8D024004	S22	15:33	04/21/11	1.000
ID8D024005	S23	15:36	04/21/11	1.000
ID8D024006	S24	15:39	04/21/11	1.000
ID8D024007	S25	15:42	04/21/11	1.000
ID8D024008	S26	15:45	04/21/11	1.000
ID8D024009	S27	15:47	04/21/11	1.000
ID8D024010	S28	15:51	04/21/11	1.000
ID8D024011	S29	15:53	04/21/11	1.000
ID8D024012	S30	15:56	04/21/11	1.000
ID8D024013	S31	15:59	04/21/11	1.000
ID8D024014	ICV	16:02	04/21/11	1.000
ID8D024015	ICB	16:04	04/21/11	1.000
ID8D024016	MRLD2101	16:07	04/21/11	1.000
ID8D024017	MRLD2102	16:10	04/21/11	1.000
ID8D024018	ICSA1	16:13	04/21/11	1.000
ID8D024019	ICSAB1	16:16	04/21/11	1.000
ID8D024020	CCV1	16:19	04/21/11	1.000
ID8D024021	CCB1	16:22	04/21/11	1.000
ID8D024022	CCV2	16:26	04/21/11	1.000
ID8D024023	CCB2	16:29	04/21/11	1.000
ID8D024024	IPD041SB	16:32	04/21/11	1.000
ID8D024025	IPD041SL	16:35	04/21/11	1.000
ID8D024026	IPD041SC	16:38	04/21/11	1.000
ID8D024027	D192-11A	16:40	04/21/11	1.000
ID8D024028	D192-11	16:43	04/21/11	1.000
ID8D024029	D192-11J	16:45	04/21/11	5.000
ID8D024030	D192-11M	16:48	04/21/11	1.000
ID8D024031	D192-11S	16:51	04/21/11	1.000
ID8D024032	D192-01	16:53	04/21/11	1.000
ID8D024033	Blank	16:56	04/21/11	1.000
ID8D024034	CCV3	16:59	04/21/11	1.000
ID8D024035	CCB3	17:01	04/21/11	1.000
ID8D024036	D192-02	17:04	04/21/11	1.000
ID8D024037	D192-03	17:07	04/21/11	1.000
ID8D024038	D192-06	17:10	04/21/11	1.000
ID8D024039	D208-02	17:12	04/21/11	1.000
ID8D024040	D208-08	17:15	04/21/11	1.000
ID8D024041	D208-12	17:18	04/21/11	1.000
ID8D024042	D208-16	17:20	04/21/11	1.000
ID8D024043	Blank	17:23	04/21/11	1.000
ID8D024044	CCV4	17:26	04/21/11	1.000
ID8D024045	CCB4	17:28	04/21/11	1.000
ID8D024046	IPD038WB	17:31	04/21/11	1.000
ID8D024047	IPD038WL	17:34	04/21/11	1.000
ID8D024048	IPD038WC	17:37	04/21/11	1.000
ID8D024049	D170-17A	17:39	04/21/11	1.000
ID8D024050	D170-17	17:42	04/21/11	1.000
ID8D024051	D170-17J	17:45	04/21/11	5.000
ID8D024052	D170-17M	17:48	04/21/11	1.000
ID8D024053	D170-17S	17:50	04/21/11	1.000
ID8D024054	D192-04	17:53	04/21/11	1.000

ID8D024055	Blank	17:56	04/21/11	1.000
ID8D024056	CCV5	17:58	04/21/11	1.000
ID8D024057	CCB5	18:01	04/21/11	1.000
ID8D024058	IPD034WQ	18:04	04/21/11	1.000
ID8D024059	IPD034WX	18:07	04/21/11	1.000
ID8D024060	IPD034WY	18:09	04/21/11	1.000
ID8D024061	D122-04A	18:12	04/21/11	1.000
ID8D024062	D122-04W	18:15	04/21/11	1.000
ID8D024063	D122-04J	18:18	04/21/11	5.000
ID8D024064	D122-04G	18:21	04/21/11	1.000
ID8D024065	D122-04H	18:23	04/21/11	1.000
ID8D024066	D122-01W	18:26	04/21/11	1.000
ID8D024067	Blank	18:29	04/21/11	1.000
ID8D024068	CCV6	18:32	04/21/11	1.000
ID8D024069	CCB6	18:35	04/21/11	1.000
ID8D024070	D122-02W	18:38	04/21/11	1.000
ID8D024071	D122-03W	18:41	04/21/11	1.000
ID8D024072	D122-05W	18:44	04/21/11	1.000
ID8D024073	D122-06W	18:47	04/21/11	1.000
ID8D024074	Blank	18:50	04/21/11	1.000
ID8D024075	CCV7	18:53	04/21/11	1.000
ID8D024076	CCB7	18:55	04/21/11	1.000
ID8D024077	TXD006SB	18:58	04/21/11	1.000
ID8D024078	D462-02A	19:01	04/21/11	1.000
ID8D024079	D462-02	19:04	04/21/11	1.000
ID8D024080	D462-02J	19:07	04/21/11	5.000
ID8D024081	D462-02M	19:10	04/21/11	1.000
ID8D024082	D462-02S	19:12	04/21/11	1.000
ID8D024083	D462-03	19:15	04/21/11	1.000
ID8D024084	D462-07	19:18	04/21/11	1.000
ID8D024085	D462-08	19:21	04/21/11	1.000
ID8D024086	Blank	19:24	04/21/11	1.000
ID8D024087	CCV8	19:27	04/21/11	1.000
ID8D024088	CCB8	19:29	04/21/11	1.000
ID8D024089	D462-09	19:32	04/21/11	1.000
ID8D024090	D463-01	19:35	04/21/11	1.000
ID8D024091	D494-01	19:38	04/21/11	1.000
ID8D024092	D182-01	19:41	04/21/11	1.000
ID8D024093	D182-04	19:44	04/21/11	1.000
ID8D024094	D182-07	19:47	04/21/11	1.000
ID8D024095	Blank	19:49	04/21/11	1.000
ID8D024096	CCV9	19:52	04/21/11	1.000
ID8D024097	CCB9	19:55	04/21/11	1.000
ID8D024098	TXD007WB	19:58	04/21/11	1.000
ID8D024099	D462-01A	20:01	04/21/11	1.000
ID8D024100	D462-01	20:03	04/21/11	1.000
ID8D024101	D462-01J	20:06	04/21/11	5.000
ID8D024102	D462-06	20:09	04/21/11	1.000
ID8D024103	D462-06M	20:12	04/21/11	1.000
ID8D024104	D462-06S	20:15	04/21/11	1.000
ID8D024105	D462-10	20:17	04/21/11	1.000
ID8D024106	D478-01	20:20	04/21/11	1.000
ID8D024107	Blank	20:23	04/21/11	1.000
ID8D024108	CCV10	20:26	04/21/11	1.000
ID8D024109	CCB10	20:29	04/21/11	1.000
ID8D024110	WTD004SB	20:31	04/21/11	1.000
ID8D024111	D081-01A	20:34	04/21/11	5.000

ID8D024112	D081-01T	20:37	04/21/11	5.000
ID8D024113	D081-01J	20:40	04/21/11	25.00
ID8D024114	D081-01M	20:43	04/21/11	5.000
ID8D024115	D081-01S	20:46	04/21/11	5.000
ID8D024116	Blank	20:49	04/21/11	1.000
ID8D024117	CCV11	20:52	04/21/11	1.000
ID8D024118	CCB11	20:54	04/21/11	1.000
ID8D024119	IPD039SB	20:57	04/21/11	1.000
ID8D024120	IPD039SL	21:00	04/21/11	1.000
ID8D024121	IPD039SC	21:03	04/21/11	1.000
ID8D024122	D182-10A	21:05	04/21/11	1.000
ID8D024123	D182-10	21:08	04/21/11	1.000
ID8D024124	D182-10J	21:11	04/21/11	5.000
ID8D024125	D182-10M	21:13	04/21/11	1.000
ID8D024126	D182-10S	21:16	04/21/11	1.000
ID8D024127	D182-01	21:19	04/21/11	1.000
ID8D024128	Blank	21:21	04/21/11	1.000
ID8D024129	CCV12	21:24	04/21/11	1.000
ID8D024130	CCB12	21:27	04/21/11	1.000
ID8D024131	D182-02	21:30	04/21/11	1.000
ID8D024132	D182-03	21:32	04/21/11	1.000
ID8D024133	D182-04	21:35	04/21/11	1.000
ID8D024134	D182-05	21:38	04/21/11	1.000
ID8D024135	D182-06	21:41	04/21/11	1.000
ID8D024136	D182-07	21:43	04/21/11	1.000
ID8D024137	D182-08	21:46	04/21/11	1.000
ID8D024138	D182-09	21:49	04/21/11	1.000
ID8D024139	Blank	21:51	04/21/11	1.000
ID8D024140	CCV13	21:54	04/21/11	1.000
ID8D024141	CCB13	21:57	04/21/11	1.000
ID8D024142	IPD040SB	22:00	04/21/11	1.000
ID8D024143	IPD040SL	22:03	04/21/11	1.000
ID8D024144	IPD040SC	22:05	04/21/11	1.000
ID8D024145	D465-01A	22:08	04/21/11	1.000
ID8D024146	D465-01	22:11	04/21/11	1.000
ID8D024147	D465-01J	22:14	04/21/11	5.000
ID8D024148	D465-01M	22:17	04/21/11	1.000
ID8D024149	D465-01S	22:20	04/21/11	1.000
ID8D024150	D465-02	22:23	04/21/11	1.000
ID8D024151	Blank	22:26	04/21/11	1.000
ID8D024152	CCV14	22:29	04/21/11	1.000
ID8D024153	CCB14	22:31	04/21/11	1.000
ID8D024154	D465-03T	22:34	04/21/11	10.00
ID8D024155	D465-04T	22:37	04/21/11	10.00
ID8D024156	D465-05	22:40	04/21/11	1.000
ID8D024157	D465-06T	22:43	04/21/11	10.00
ID8D024158	D465-07	22:45	04/21/11	1.000
ID8D024159	D465-08	22:49	04/21/11	1.000
ID8D024160	D465-09T	22:52	04/21/11	10.00
ID8D024161	D465-10	22:54	04/21/11	1.000
ID8D024162	D465-11	22:57	04/21/11	1.000
ID8D024163	Blank	23:00	04/21/11	1.000
ID8D024164	CCV15	23:03	04/21/11	1.000
ID8D024165	CCB15	23:06	04/21/11	1.000
ID8D024166	D465-12T	23:09	04/21/11	10.00
ID8D024167	D465-13	23:12	04/21/11	1.000
ID8D024168	D465-14T	23:15	04/21/11	10.00

ID8D024169	D465-15	23:18	04/21/11	1.000
ID8D024170	D465-16	23:21	04/21/11	1.000
ID8D024171	D465-17	23:25	04/21/11	1.000
ID8D024172	D499-01	23:28	04/21/11	1.000
ID8D024173	D479-17T	23:31	04/21/11	10.00
ID8D024174	D479-18T	23:34	04/21/11	10.00
ID8D024175	Blank	23:37	04/21/11	1.000
ID8D024176	CCV16	23:40	04/21/11	1.000
ID8D024177	CCB16	23:43	04/21/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8D024 DATE : 04/21/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	96	104	97	101	102	100	103	99	95	103	103	98	105	94	94	96	98	98	104	101	104	97	94	95	98	100	104
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	96	----	----	----	96	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	98	102	105	104	98	101	95	95	94	94	107	96	94	112	94	91	99	96	104	104	107	110	97	84	97	97	98	102
CCV1	104	102	104	98	99	99	98	101	98	98	102	100	97	105	93	93	99	98	97	102	100	104	98	93	101	98	99	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	103	105	98	100	101	100	103	100	97	102	102	96	104	94	94	97	96	97	103	101	104	98	95	100	98	100	104
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	102	104	99	100	100	99	102	98	98	103	100	98	105	93	94	99	98	97	102	100	104	98	93	101	98	99	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	101	105	99	101	98	100	102	98	99	102	99	99	105	95	95	100	99	97	102	99	105	98	94	101	99	98	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	101	104	99	101	97	99	102	97	99	101	99	99	105	95	95	100	99	97	101	98	104	98	93	102	99	97	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	104	101	105	99	100	99	101	102	99	99	102	100	99	105	94	94	99	99	97	102	100	104	98	94	101	99	98	107
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	103	100	104	100	101	97	100	102	97	100	101	98	101	106	95	94	101	100	97	100	98	105	98	93	102	100	97	108
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXD006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	100	103	101	101	97	98	101	96	100	102	98	100	105	94	94	102	100	97	100	99	105	98	92	102	99	97	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D463-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D494-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	103	101	104	99	100	98	100	101	98	99	101	99	99	105	94	94	100	99	97	101	99	105	99	94	101	99	98	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXD007WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D478-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	104	98	100	101	101	96	95	99	95	101	103	96	101	107	93	93	103	101	98	98	97	106	99	90	102	100	96	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTD004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D081-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	104	100	102	100	100	98	96	99	95	99	103	97	99	106	91	92	101	99	98	100	99	105	99	90	101	99	97	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	103	99	100	100	100	96	94	100	94	97	101	97	97	106	92	92	99	97	97	98	96	105	98	89*	101	99	97	103
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	104	101	104	100	101	98	100	102	98	99	102	100	99	106	95	94	100	99	99	101	99	106	99	94	102	99	98	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	104	101	104	99	99	99	99	102	99	97	101	101	97	105	94	92	98	97	98	101	100	105	97	94	101	98	99	104
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	104	99	102	100	100	97	97	101	96	98	101	99	99	106	94	93	100	99	99	99	98	106	98	92	102	100	98	106
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-14T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D465-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D499-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-17T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-18T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	102	98	100	99	99	97	95	99	95	97	100	98	98	105	92	91	99	97	98	97	97	105	97	90	101	98	97	103
CCB16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8D024 (SOIL) DATE : 04/21/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.9	.620	.170	.370	.220	6.28	.210	15.0	.330	.070	.510	22.7	.020	.430	9.99	.240	.660	.290	110	.180	.000	97.6	.080	.910	-.400	.450	.220	-.260
MRLD2101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.21	-.100	1.45	.030	-.040	.740	----	-.090	-.350	1.22	----	2.03	6.02	----	1.55	-.760	.510	5.84	.290	.070	132	1.32	-.340	2.05	3.72	-.560	2.32
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	69.1	1.05	-.220	1.16	.590	8.21	.960	467	1.45	.430	2.40	21.1	.290	.730	34.8	1.11	1.58	1.23	122	.060	.260	77.9	.380	1.32	.120	.070	.840	13.3
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	25.5	.700	.250	.290	.140	6.71	.440	-6.09	.630	.210	.770	3.95	.300	-.600	7.58	.320	1.01	.460	66.6	.530	-.020	32.0	.000	.660	-.050	.120	.180	-.500
IPD041SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	35.8	.480	.440	.270	.260	6.38	.410	-2.21	.790	.100	1.03	10.6	.140	.950	14.0	.350	1.01	.580	93.2	-.320	.060	44.7	.090	.950	-.200	.380	.410	-.420
D192-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	5.45	.210	.600	.120	.120	4.89	.050	-11.6	.030	.040	.240	-1.06	-.170	.470	1.80	.140	.540	.070	71.6	.110	-.070	24.2	.030	.480	-.150	.180	.080	-.970
IPD038WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	7.27	.940	.550	.100	.080	5.44	.160	-11.2	.020	.100	.200	-.280	.230	.530	7.28	.130	.650	.040	72.5	.810	-.020	33.6	.050	.480	-.030	.020	.030	-.850
IPD034WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	8.04	.540	.460	.080	.070	6.45	.110	-5.67	.130	.070	.150	-2.59	-.150	.020	2.69	.180	.580	.060	83.0	.920	-.060	86.1	-.020	.450	.210	.090	.070	-.880
D122-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.9	.440	.410	.380	.230	6.07	.490	6.31	.610	.210	.750	7.00	.460	.340	11.1	.650	1.01	.560	107	1.44	.170	110	.070	.880	-.120	-.020	.270	.070
TXD006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	35.7	.200	.920	.500	.230	4.72	.470	22.9	.660	.270	.780	7.86	.970	-.220	.750	.290	1.24	.590	123	-.310	.010	167	.130	.450	.110	.150	.500	.750
D462-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D463-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D494-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	36.1	.400	-.290	.710	.240	5.51	.480	27.8	.600	.110	.970	8.54	.160	-.150	12.1	.400	1.08	.700	73.4	1.41	.040	102	.170	1.22	-.180	.000	.570	.780
TXD007WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D478-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	44.3	.810	.450	.700	.280	6.49	.580	21.7	.750	.340	1.06	9.59	.380	.390	7.58	.430	1.26	.620	145	.920	.020	225	.150	.950	.010	-.220	.520	.840
WTD004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D081-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	42.5	.800	.590	.570	.250	5.66	.560	20.3	.900	.300	1.08	8.73	.660	.720	8.64	.380	1.20	.720	158	.480	.040	306	.190	1.01	.110	.300	.580	.590
IPD039SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	37.5	.480	.790	.680	.250	5.92	.510	18.1	.780	.260	1.02	8.62	.610	-.180	5.23	.400	1.15	.610	98.8	.270	.130	124	.110	1.17	.180	-.320	.500	.910
D182-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	5.82	.870	-.550	.500	.070	4.93	.070	10.2	-.040	.110	.030	.820	-.070	-.500	5.18	.150	.550	-.040	58.3	.700	-.070	70.8	.090	.450	.070	-.260	.110	.120
IPD040SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	5.14	-.020	.010	.330	.090	5.50	.110	9.71	-.060	.110	.040	-.330	.070	.190	2.71	.150	.630	.120	90.7	.080	-.180	75.6	.080	.530	.080	.060	.080	.450
D465-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	31.9	-.270	.350	1.46	1.12	5.47	.240	58.3	.600	.200	.700	6.53	.500	.460	42.3	1.94	.710	.330	124	1.12	.000	110	.320	.560	.220	.150	.440	2.52
D465-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-14T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D465-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D499-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-17T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-18T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB16	7.25	.190	.990	.260	.070	5.19	.080	4.15	.050	.070	.210	6.37	.070	.600	3.57	.120	.620	.520	53.1	.030	.020	65.1	.050	.610	-.240	-.190	.010	.210

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8D024001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8D024002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8D024003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8D024004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8D024005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8D024006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8D024007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8D024008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8D024009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8D024010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8D024011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8D024012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8D024013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8D024014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8D024015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLD2101		ID8D024016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLD2102		ID8D024017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8D024018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8D024019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8D024020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8D024021			1	☒	3XIDL	None
22	7	2	7	1	QC	CCV2		ID8D024022			1	☒	CCV	None
23	8	2	8	1	QC	CCB2		ID8D024023			1	☒	3XIDL	None
24	9	2	9	1	QC	IPD041SB		ID8D024024			1	☒	1/2LOQ	None
25	10	2	10	1	QC	IPD041SL		ID8D024025			1	☒	LCS	None
26	11	2	11	1	QC	IPD041SC		ID8D024026			1	☒	LCS	None
27	12	2	12	1	Unk	D192-11A		ID8D024027			1	☒	unk	---
28	13	2	1	2	Unk	D192-11		ID8D024028			1	☒	unk	---
29	14	2	2	2	Unk	D192-11J		ID8D024029			1	☒	unk	---
30	15	2	3	2	Unk	D192-11M		ID8D024030			1	☒	unk	---
31	16	2	4	2	Unk	D192-11S		ID8D024031			1	☒	unk	---
32	17	2	5	2	Unk	D192-01		ID8D024032			1	☒	unk	---
33	18	2	6	2	Blank	Blank		ID8D024033			1	☐		---
34	19	2	7	2	QC	CCV3		ID8D024034			1	☒	CCV	None
35	20	2	8	2	QC	CCB3		ID8D024035			1	☒	LOD	None
36	21	2	9	2	Unk	D192-02		ID8D024036			1	☒	unk	---
37	22	2	10	2	Unk	D192-03		ID8D024037			1	☒	unk	---
38	23	2	11	2	Unk	D192-06		ID8D024038			1	☒	unk	---
39	24	2	12	2	Unk	D208-02		ID8D024039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	25	2	1	3	Unk	D208-08		ID8D024040			1	☒	unk	---
41	26	2	2	3	Unk	D208-12		ID8D024041			1	☒	unk	---
42	27	2	3	3	Unk	D208-16		ID8D024042			1	☒	unk	---
43	28	2	4	3	Blank	Blank		ID8D024043			1	☐		---
44	29	2	5	3	QC	CCV4		ID8D024044			1	☒	CCV	None
45	30	2	6	3	QC	CCB4		ID8D024045			1	☒	3XIDL	None
46	31	2	7	3	QC	IPD038WB		ID8D024046			1	☒	1/2LOQ	None
47	32	2	8	3	QC	IPD038WL		ID8D024047			1	☒	LCS	None
48	33	2	9	3	QC	IPD038WC		ID8D024048			1	☒	LCS	None
49	34	2	10	3	Unk	D170-17A		ID8D024049			1	☒	unk	---
50	35	2	11	3	Unk	D170-17		ID8D024050			1	☒	unk	---
51	36	2	12	3	Unk	D170-17J		ID8D024051			1	☒	unk	---
52	37	2	1	4	Unk	D170-17M		ID8D024052			1	☒	unk	---
53	38	2	2	4	Unk	D170-17S		ID8D024053			1	☒	unk	---
54	39	2	3	4	Unk	D192-04		ID8D024054			1	☒	unk	---
55	40	2	4	4	Blank	Blank		ID8D024055			1	☐		---
56	41	2	5	4	QC	CCV5		ID8D024056			1	☒	CCV	None
57	42	2	6	4	QC	CCB5		ID8D024057			1	☒	3XIDL	None
58	43	2	7	4	QC	IPD034WQ		ID8D024058			1	☒	1/2LOQ	None
59	44	2	8	4	QC	IPD034WX		ID8D024059			1	☒	LCS	None
60	45	2	9	4	QC	IPD034WY		ID8D024060			1	☒	LCS	None
61	46	2	10	4	Unk	D122-04A		ID8D024061			1	☒	unk	---
62	47	2	11	4	Unk	D122-04W		ID8D024062			1	☒	unk	---
63	48	2	12	4	Unk	D122-04J		ID8D024063			1	☒	unk	---
64	49	2	1	5	Unk	D122-04G		ID8D024064			1	☒	unk	---
65	50	2	2	5	Unk	D122-04H		ID8D024065			1	☒	unk	---
66	51	2	3	5	Unk	D122-01W		ID8D024066			1	☒	unk	---
67	52	2	4	5	Blank	Blank		ID8D024067			1	☐		---
68	53	2	5	5	QC	CCV6		ID8D024068			1	☒	CCV	None
69	54	2	6	5	QC	CCB6		ID8D024069			1	☒	3XIDL	None
70	55	2	7	5	Unk	D122-02W		ID8D024070			1	☒	unk	---
71	56	2	8	5	Unk	D122-03W		ID8D024071			1	☒	unk	---
72	57	2	9	5	Unk	D122-05W		ID8D024072			1	☒	unk	---
73	58	2	10	5	Unk	D122-06W		ID8D024073			1	☒	unk	---
74	59	2	11	5	Blank	Blank		ID8D024074			1	☐		---
75	60	2	12	5	QC	CCV7		ID8D024075			1	☒	CCV	None
76	61	3	1	1	QC	CCB7	Al, K, Na > LOD	ID8D024076			1	☒	LOD	None
77	62	3	2	1	QC	TXD006SB	TCLP	ID8D024077			1	☒	1/2LOQ	None
78	63	3	3	1	Unk	D462-02A	TCLP	ID8D024078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	64	3	4	1	Unk	D462-02	TCLP	ID8D024079			1	☒	unk	---
80	65	3	5	1	Unk	D462-02J	TCLP	ID8D024080			1	☒	unk	---
81	66	3	6	1	Unk	D462-02M	TCLP	ID8D024081			1	☒	unk	---
82	67	3	7	1	Unk	D462-02S	TCLP	ID8D024082			1	☒	unk	---
83	68	3	8	1	Unk	D462-03	TCLP	ID8D024083			1	☒	unk	---
84	69	3	9	1	Unk	D462-07	TCLP	ID8D024084			1	☒	unk	---
85	70	3	10	1	Unk	D462-08	TCLP	ID8D024085			1	☒	unk	---
86	71	3	11	1	Blank	Blank		ID8D024086			1	☐	unk	---
87	72	3	12	1	QC	CCV8		ID8D024087			1	☒	CCV	None
88	73	3	1	2	QC	CCB8		ID8D024088			1	☒	3XIDL	None
89	74	3	2	2	Unk	D462-09	TCLP	ID8D024089			1	☒	unk	---
90	75	3	3	2	Unk	D463-01	TCLP	ID8D024090			1	☒	unk	---
91	76	3	4	2	Unk	D494-01	TCLP	ID8D024091			1	☒	unk	---
92	77	3	5	2	Unk	D182-01	dried & sieved	ID8D024092			1	☒	unk	---
93	78	3	6	2	Unk	D182-04	dried & sieved	ID8D024093			1	☒	unk	---
94	79	3	7	2	Unk	D182-07	dried & sieved	ID8D024094			1	☒	unk	---
95	80	3	8	2	Blank	Blank		ID8D024095			1	☐		---
96	81	3	9	2	QC	CCV9		ID8D024096			1	☒	CCV	None
97	82	3	10	2	QC	CCB9		ID8D024097			1	☒	3XIDL	None
98	83	3	11	2	QC	TXD007WB	TCLP	ID8D024098			1	☒	1/2LOQ	None
99	84	3	12	2	Unk	D462-01A	TCLP	ID8D024099			1	☒	unk	---
100	85	3	1	3	Unk	D462-01	TCLP	ID8D024100			1	☒	unk	---
101	86	3	2	3	Unk	D462-01J	TCLP	ID8D024101			1	☒	unk	---
102	87	3	3	3	Unk	D462-06	TCLP	ID8D024102			1	☒	unk	---
103	88	3	4	3	Unk	D462-06M	TCLP	ID8D024103			1	☒	unk	---
104	89	3	5	3	Unk	D462-06S	TCLP	ID8D024104			1	☒	unk	---
105	90	3	6	3	Unk	D462-10	TCLP	ID8D024105			1	☒	unk	---
106	91	3	7	3	Unk	D478-01	TCLP	ID8D024106			1	☒	unk	---
107	92	3	8	3	Blank	Blank		ID8D024107			1	☐		---
108	93	3	9	3	QC	CCV10	9C/L Tl	ID8D024108			1	☒	CCV	None
109	94	3	10	3	QC	CCB10		ID8D024109			1	☒	3XIDL	None
110	95	3	11	3	QC	WTD004SB	STLC Tl Ba Cr, Se, Zn	ID8D024110			1	☒	1/2LOQ	None
111	96	3	12	3	Unk	D081-01A	5X STLC YELLOW	ID8D024111			1	☒	unk	---
112	97	3	1	4	Unk	D081-01T	5X STLC YELLOW	ID8D024112			1	☒	unk	---
113	98	3	2	4	Unk	D081-01J	25X STLC YELLOW	ID8D024113			1	☒	unk	---
114	99	3	3	4	Unk	D081-01M	5X STLC YELLOW	ID8D024114			1	☒	unk	---
115	100	3	4	4	Unk	D081-01S	5X STLC YELLOW	ID8D024115			1	☒	unk	---
116	101	3	5	4	Blank	Blank		ID8D024116			1	☐		---
117	102	3	6	4	QC	CCV11		ID8D024117			1	☒	CCV	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	103	3	7	4	QC	CCB11		ID8D024118			1	☒	3XIDL	None
119	104	3	8	4	QC	IPD039SB		ID8D024119			1	☒	1/2LOQ	None
120	105	3	9	4	QC	IPD039SL		ID8D024120			1	☒	LCS	None
121	106	3	10	4	QC	IPD039SC		ID8D024121			1	☒	LCS	None
122	107	3	11	4	Unk	D182-10A	Zn7LDR	ID8D024122			1	☒	unk	---
123	108	3	12	4	Unk	D182-10		ID8D024123			1	☒	unk	---
124	109	3	1	5	Unk	D182-10J		ID8D024124			1	☒	unk	---
125	110	3	2	5	Unk	D182-10M		ID8D024125			1	☒	unk	---
126	111	3	3	5	Unk	D182-10S		ID8D024126			1	☒	unk	---
127	112	3	4	5	Unk	D182-01		ID8D024127			1	☒	unk	---
128	113	3	5	5	Blank	Blank		ID8D024128			1	☐		---
129	114	3	6	5	QC	CCV12		ID8D024129			1	☒	CCV	None
130	115	3	7	5	QC	CCB12		ID8D024130			1	☒	3XIDL	None
131	116	3	8	5	Unk	D182-02		ID8D024131			1	☒	unk	---
132	117	3	9	5	Unk	D182-03		ID8D024132			1	☒	unk	---
133	118	3	10	5	Unk	D182-04		ID8D024133			1	☒	unk	---
134	119	3	11	5	Unk	D182-05		ID8D024134			1	☒	unk	---
135	120	3	12	5	Unk	D182-06	Zn7LDR	ID8D024135			1	☒	unk	---
136	121	4	1	1	Unk	D182-07		ID8D024136			1	☒	unk	---
137	122	4	2	1	Unk	D182-08		ID8D024137			1	☒	unk	---
138	123	4	3	1	Unk	D182-09		ID8D024138			1	☒	unk	---
139	124	4	4	1	Blank	Blank		ID8D024139			1	☐		---
140	125	4	5	1	QC	CCV13		ID8D024140			1	☒	CCV	None
141	126	4	6	1	QC	CCB13		ID8D024141			1	☒	3XIDL	None
142	127	4	7	1	QC	IPD040SB		ID8D024142			1	☒	1/2LOQ	None
143	128	4	8	1	QC	IPD040SL		ID8D024143			1	☒	LCS	None
144	129	4	9	1	QC	IPD040SC		ID8D024144			1	☒	LCS	None
145	130	4	10	1	Unk	D465-01A	Ca7LDR	ID8D024145			1	☒	unk	---
146	131	4	11	1	Unk	D465-01		ID8D024146			1	☒	unk	---
147	132	4	12	1	Unk	D465-01J		ID8D024147			1	☒	unk	---
148	133	4	1	2	Unk	D465-01M		ID8D024148			1	☒	unk	---
149	134	4	2	2	Unk	D465-01S		ID8D024149			1	☒	unk	---
150	135	4	3	2	Unk	D465-02		ID8D024150			1	☒	unk	---
151	136	4	4	2	Blank	Blank		ID8D024151			1	☐		---
152	137	4	5	2	QC	CCV14		ID8D024152			1	☒	CCV	None
153	138	4	6	2	QC	CCB14		ID8D024153			1	☒	3XIDL	None
154	139	4	7	2	Unk	D465-03T	10X COLORED	ID8D024154			1	☒	unk	---
155	140	4	8	2	Unk	D465-04T	10X COLORED	ID8D024155			1	☒	unk	---
156	141	4	9	2	Unk	D465-05	Ca7LDR	ID8D024156			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	142	4	10	2	Unk	D465-06T	10X COLORED	ID8D024157			1	☒	unk	---
158	143	4	11	2	Unk	D465-07	CaZLNR	ID8D024158			1	☒	unk	---
159	144	4	12	2	Unk	D465-08		ID8D024159			1	☒	unk	---
160	145	4	1	3	Unk	D465-09T	10X COLORED	ID8D024160			1	☒	unk	---
161	146	4	2	3	Unk	D465-10	CaZLNR	ID8D024161			1	☒	unk	---
162	147	4	3	3	Unk	D465-11	↓	ID8D024162			1	☒	unk	---
163	148	4	4	3	Blank	Blank		ID8D024163			1	☐		---
164	149	4	5	3	QC	CCV15		ID8D024164			1	☒	CCV	None
165	150	4	6	3	QC	CCB15		ID8D024165			1	☒	3XIDL	None
166	151	4	7	3	Unk	D465-12T	10X COLORED	ID8D024166			1	☒	unk	---
167	152	4	8	3	Unk	D465-13	CaZLNR	ID8D024167			1	☒	unk	---
168	153	4	9	3	Unk	D465-14T	10X COLORED	ID8D024168			1	☒	unk	---
169	154	4	10	3	Unk	D465-15	CaZLNR	ID8D024169			1	☒	unk	---
170	155	4	11	3	Unk	D465-16	↓	ID8D024170			1	☒	unk	---
171	156	4	12	3	Unk	D465-17	↓ 7H 4/22/11	ID8D024171			1	☒	unk	---
172	157	4	1	4	Unk	D499-01		ID8D024172			1	☒	unk	---
173	158	4	2	4	Unk	D479-17T	5X	ID8D024173			1	☒	unk	---
174	159	4	3	4	Unk	D479-18T	5X	ID8D024174			1	☒	unk	---
175	160	4	4	4	Blank	Blank		ID8D024175			1	☐		---
176	161	4	5	4	QC	CCV16		ID8D024176			1	☒	CCV	None
177	162	4	6	4	QC	CCB16		ID8D024177			1	☒	3XIDL	None

ID8D024 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00134	.00002	-.00001	.00023	.00006	.00014	-.00004	.00051	.00001	-.00122	Blank
2	S20					.87756		.14054				S20
3	S21					8.6782		1.3387				S21
4	S22				.48330						.19567	S22
5	S23				4.7904						2.0079	S23
6	S24						.10371					S24
7	S25						1.0824					S25
8	S26	.29713							.93246	.15460		S26
9	S27	10.552							8.4815	1.5086		S27
10	S28		.00612									S28
11	S29		.05966									S29
12	S30			.00151								S30
13	S31			.00610								S31
14	ICV	105.10	1.4449	1.0396	1.9417	1.5145	2.5476	2.0062	77.142	2.4830	.95110	ICV
15	ICB	.01591	.00062	.00017	.00037	.00022	.00628	.00021	.01500	.00033	.00007	ICB
16	MRLD2101	.21807	.10033	.01060	.01047	.01020	.01460*	.01053	1.0460	.01032	.00938	MRLD2101
17	MRLD2102	.21909	.04736	.00923	.00534	.00407	.09913	.00521	.52446	.00991	.00940	MRLD2102
18	ICSA1	392.28	.00621	-.00010	.00145	.00003	-.00004	.00074	478.95	-.00009	-.00035	ICSA1
19	ICSAB1	391.66	1.0216	1.0480	.51773	.49191	.50334	.94591	472.61	.46985	.46962	ICSAB1
20	CCV1	103.77	1.5269	1.0420	1.9634	1.4874	2.4859	1.9637	76.107	2.4393	.97697	CCV1
21	CCB1	.06913*	.00105	-.00022	.00116	.00059*	.00821*	.00096*	.46666*	.00145*	.00043	CCB1
22	CCV2	104.69	1.5412	1.0532	1.9616	1.4943	2.5186	1.9997	76.942	2.4890	.96558	CCV2
23	CCB2	.02549	.00070	.00025	.00029	.00014	.00671*	.00044	-.00609	.00063	.00021	CCB2
24	IPD041SB	.00293	-.00004	-.00128	.00015	-.00001	.00229	.00005	-.01910	-.00002	-.00003	IPD041SB
25	IPD041SL	5.0113	2.3335	.48248	.49311	.50961	.45138	.49101	50.796	.48621	.49127	IPD041SL
26	IPD041SC	4.9576	2.2952	.48138	.48907	.50678	.45088	.48927	49.701	.48839	.49099	IPD041SC
27	D192-11A	36.186	2.3714	.55867	.72933	.52897	.52572	.54418	68.210	1.5139	.53651	D192-11A
28	D192-11	30.453	.00227	.04769	.22311	.00169	.05975	.04692	17.407	1.0371	.02383	D192-11
29	D192-11J	6.4828	-.00022	.01005	.04613	.00044	.01389	.01003	3.6704	.21713	.00479	D192-11J
30	D192-11M	42.847	2.9859	.54870	.71132	.51205	.52234	.52839	70.069	1.5113	.52225	D192-11M
31	D192-11S	39.999	2.2459	.53215	.69228	.50002	.51647	.51178	69.230	1.4705	.50612	D192-11S
32	D192-01	37.705	.00108	.04102	.36407	.00210	.09404	.04626	29.051	.47012	.02715	D192-01
33	Blank	.01080	.00002	-.00017	.00057	.00023	.00149	.00007	.03652	.00009	.00000	Blank
34	CCV3	104.34	1.5255	1.0416	1.9728	1.4942	2.4942	1.9732	76.236	2.4582	.97975	CCV3
35	CCB3	.03576*	.00048	.00044	.00027	.00026	.00638	.00041	-.00221	.00079	.00010	CCB3
36	D192-02	16.857	-.01877	.02267	.12715	.00117	.04667	.09661	14.268	3.5151	.01490	D192-02
37	D192-03	25.771	.00107	.02895	.21827	.00147	.04994	.02174	17.647	.27943	.01647	D192-03
38	D192-06	33.803	-.00679	.04508	.25089	.00170	.08154	.07764	18.130	1.6216	.02224	D192-06
39	D208-02	41.104	-.00781	.04274	.28152	.00208	.11223	.08027	20.354	2.0771	.02749	D208-02
40	D208-08	38.147	-.00595	.03506	.43331	.00213	.06420	.08836	33.315	1.5233	.02782	D208-08
41	D208-12	33.187	.00020	.02274	.35317	.00183	.04545	.03218	29.421	.38981	.02263	D208-12
42	D208-16	34.190	-.00097	.04349	.27679	.00182	.05711	.06008	24.274	.49738	.02783	D208-16
43	Blank	.01101	.00001	.00009	.00039	.00001	.00027	.00003	.00113	.00019	-.00007	Blank
44	CCV4	104.14	1.5207	1.0503	1.9882	1.5123	2.4516	2.0059	76.741	2.4437	.99136	CCV4
45	CCB4	.00545	.00021	.00060	.00012	.00012	.00489	.00005	-.01158	.00003	.00004	CCB4
46	IPD038WB	.00388	-.00044	-.00103	.00008	.00001	.00273	-.00005	-.01301	.00003	.00004	IPD038WB
47	IPD038WL	5.5531	2.5203	.53321	.50206	.52329	.52405	.52938	51.203	.51289	.49210	IPD038WL
48	IPD038WC	5.5138	2.4917	.52928	.49747	.51883	.52256	.52622	50.466	.51469	.48572	IPD038WC
49	D170-17A	5.6537	2.5054	.53942	.50230	.52562	.53000	.53751	51.949	.53226	.49183	D170-17A
50	D170-17	.00530	.00441	.00049	.00011	.00008	.00271	.00012	.00160	.01080	.00008	D170-17
51	D170-17J	-.00031	.00055	-.00026	.00001	.00004	.00090	.00002	-.00841	.00206	.00005	D170-17J
52	D170-17M	5.3939	2.4281	.51380	.48945	.51138	.50797	.51446	49.970	.50062	.48649	D170-17M
53	D170-17S	5.0493	2.4359	.48100	.46175	.48074	.50371	.47985	49.783	.46193	.45405	D170-17S
54	D192-04	.01228	.00118	-.00011	.00028	.00008	.05677	.00004	.11837	.00012	.00007	D192-04

55	Blank	.00155	.00015	.00046	.00023	-.00001	.00083	.00001	-.00388	-.00006	.00013	Blank
56	CCV5	103.57	1.5123	1.0394	1.9821	1.5108	2.4372	1.9860	76.714	2.4207	.99097	CCV5
57	CCB5	.00727	.00094	.00055	.00010	.00008	.00544	.00016	-.01123	.00002	.00010	CCB5
58	IPD034WQ	.00160	-.00038	.00056	.00004	-.00001	.00200	.00002	-.01589	-.00009	.00000	IPD034WQ
59	IPD034WX	5.4643	2.4764	.52692	.49410	.51710	.51936	.52569	50.822	.51020	.48542	IPD034WX
60	IPD034WY	5.5052	2.4837	.52402	.49222	.51568	.51793	.52335	50.794	.50798	.48391	IPD034WY
61	D122-04A	6.0527	2.5713	.63938	.79797	.52420	.80711	.51666	221.09	.51013	.49647	D122-04A
62	D122-04W	.30355	.00171	.08852	.30098	.00003	.28009	.00001	179.93	.00142	-.00029	D122-04W
63	D122-04J	.06207	.00047	.01738	.06183	.00001	.05492	-.00006	37.836	.00038	-.00008	D122-04J
64	D122-04G	5.8599	2.4935	.62300	.80143	.51277	.78923	.50092	226.30	.49062	.48785	D122-04G
65	D122-04H	5.9522	2.4674	.61192	.79250	.50842	.80048	.49171	222.76	.49034	.48441	D122-04H
66	D122-01W	.15444	.00130	.08499	.39568	.00001	.28138	.00002	183.81	.00100	-.00033	D122-01W
67	Blank	.00093	.00044	.00037	.00036	.00002	.00186	.00002	.01445	-.00012	-.00005	Blank
68	CCV6	103.86	1.5203	1.0511	1.9799	1.5056	2.4741	2.0172	76.472	2.4658	.98974	CCV6
69	CCB6	.00804	.00054	.00046	.00008	.00007	.00645*	.00011	-.00567	.00013	.00007	CCB6
70	D122-02W	.01855	-.00135	.03035	.60491	-.00003	.27536	-.00004	391.48	.00087	.00129	D122-02W
71	D122-03W	.02074	-.00061	.07183	.40824	-.00004	.23718	-.00005	207.04	.00119	-.00045	D122-03W
72	D122-05W	.02202	-.00132	.07396	.53363	-.00002	.32093	.00002	172.81	.00113	-.00049	D122-05W
73	D122-06W	.16528	-.00065	.08411	.41090	-.00004	.28283	-.00003	189.35	.00102	-.00054	D122-06W
74	Blank	.00201	-.00020	-.00019	.00036	.00000	.00100	.00000	.02436	-.00002	.00006	Blank
75	CCV7	103.15	1.5019	1.0369	1.9998	1.5214	2.4195	2.0016	76.206	2.4143	1.0041	CCV7
76	CCB7	.03293	.00044	.00041	.00038	.00023	.00607	.00049	.00631	.00061	.00021	CCB7
77	TXD006SB	.01751	-.00043	-.00165	.00117	.00003	.00469	-.00005	-.00057	.00038	-.00020	TXD006SB
78	D462-02A	5.6632	2.5231	.56048	.75280	.52351	.69118	.52917	51.756	.50660	.50916	D462-02A
79	D462-02	.04021	.00540	-.00146	.25702	.00005	.16923	.00136	1.7131	.00063	.00036	D462-02
80	D462-02J	.00833	.00015	.00087	.05003	.00004	.03235	.00023	.32063	.00005	-.00007	D462-02J
81	D462-02M	5.6349	2.5481	.55224	.67025	.51234	.59239	.51230	50.482	.49745	.50343	D462-02M
82	D462-02S	5.5361	2.5452	.55699	.64973	.51384	.58213	.52788	51.439	.50540	.49232	D462-02S
83	D462-03	.09884	.00397	-.00171	.66333	.00009	.25025	.07257	83.716	.00388	.00060	D462-03
84	D462-07	.27461	.00415	-.00042	.35258	.00009	.18934	.00052	10.659	.00037	.00025	D462-07
85	D462-08	.04300	-.00068	.00050	.34039	.00000	.13069	.00099	14.119	.00029	.00005	D462-08
86	Blank	.00028	-.00066	.00076	.00037	.00000	.00072	-.00001	-.00395	-.00007	.00003	Blank
87	CCV8	103.56	1.4943	1.0279	2.0237	1.5117	2.4324	1.9678	75.709	2.4089	1.0047	CCV8
88	CCB8	.03565	.00020	.00092	.00050	.00023	.00472	.00047	.02295	.00066	.00027	CCB8
89	D462-09	.34217	.03467	.00062	.72442	.00004	.16573	.00015	3.9442	.00021	-.00008	D462-09
90	D463-01	.04762	-.00112	-.00096	.33632	.00000	.25722	.00002	19.774	.00041	.00041	D463-01
91	D494-01	.01350	-.00097	-.00070	.40762	-.00001	.13967	.00120	122.29	.00051	.01482	D494-01
92	D182-01	73.543	.01033	.06996	.85177	.00564	.00882	.12747	31.276	.14709	.04443	D182-01
93	D182-04	84.759	.01298	.09473	1.2130	.00853	.01851	.26767	67.111	.17349	.10168	D182-04
94	D182-07	66.152	.02937	.06285	.85143	.00515	.00915	.29618	74.055	.11902	.03733	D182-07
95	Blank	.02497	-.00025	.00003	.00062	.00001	.00039	.00004	.03517	-.00012	.00002	Blank
96	CCV9	103.43	1.5167	1.0436	1.9851	1.5066	2.4549	1.9977	76.028	2.4448	.98576	CCV9
97	CCB9	.03614*	.00040	-.00029	.00071	.00024	.00551	.00048	.02782	.00060	.00011	CCB9
98	TXD007WB	.00432	-.00026	.00135	.00017	-.00002	.00258	-.00001	-.00788	-.00013	.00003	TXD007WB
99	D462-01A	5.8076	2.4855	.53723	.78288	.53553	.73417	.55729	52.512	.51913	.50358	D462-01A
100	D462-01	.06796	.00466	-.00003	.27656	.00006	.20191	.02644	.49832	.00046	.00056	D462-01
101	D462-01J	.01345	.00028	-.00014	.05658	-.00003	.04146	.00534	.17498	-.00006	.00028	D462-01J
102	D462-06	.04158	-.00032	.00064	.33945	-.00007	.11257	-.00022	73.131	.01374	.00005	D462-06
103	D462-06M	5.5529	2.4478	.52229	.84038	.49448	.63206	.47123	119.29	.48140	.47597	D462-06M
104	D462-06S	5.9528	2.6194	.56047	.90641	.53028	.68273	.50693	131.09	.51731	.51151	D462-06S
105	D462-10	.20361	.00174	.00093	.23638	.00011	.24557	.00070	11.381	.00170	.00162	D462-10
106	D478-01	.06043	.01325	.02105	.23344	-.00001	2.8142	.61931	1.8389	.03562	.01927	D478-01
107	Blank	.00419	-.00022	-.00011	.00027	.00004	.00782	.00010	.00887	.00013	.00000	Blank
108	CCV10	103.73	1.4756	1.0042	2.0233	1.5148	2.4039	1.9050	74.293	2.3637	1.0130	CCV10
109	CCB10	.04432*	.00081	.00045	.00070	.00028	.00649*	.00058*	.02169	.00075	.00034	CCB10
110	WTD004SB	.04784	-.00609	.00246	.59144*	.00006	.18304*	.00005	.24057	.00611*	.00018	WTD004SB
111	D081-01A	7.2961	2.5656	.57935	.59517	.52318	.59159	.50661	223.94	.56657	.52717	D081-01A

112	D081-01T	1.4390	.00856	.00583	.07459	.00000	.05425	-.00050	173.78	.05528	.00148	D081-01T
113	D081-01J	.28539	.00155	.00136	.01513	.00003	.01167	-.00050	36.346	.01169	.00019	D081-01J
114	D081-01M	2.7816	.52296	.11942	.11798	.10354	.17209	.09973	198.32	.16531	.10420	D081-01M
115	D081-01S	2.6932	.51844	.11452	.11621	.10205	.16812	.09816	188.07	.16033	.10371	D081-01S
116	Blank	.00235	-.00049	-.00027	.00003	.00000	.00071	.00000	.02271	-.00012	.00001	Blank
117	CCV11	104.28	1.5049	1.0231	2.0034	1.4929	2.4437	1.9148	74.342	2.3814	.99278	CCV11
118	CCB11	.04248*	.00080	.00059	.00057	.00025	.00566	.00056*	.02028	.00090	.00030	CCB11
119	IPD039SB	-.00153	-.00082	.00054	-.00004	-.00003	.00135	.00003	-.01981	-.00014	.00013	IPD039SB
120	IPD039SL	5.0970	2.3683	.48777	.50360	.51032	.46620	.48412	50.169	.48978	.49892	IPD039SL
121	IPD039SC	5.0477	2.3382	.47949	.49668	.50599	.45959	.47627	49.343	.48467	.49042	IPD039SC
122	D182-10A	76.876	2.3247	.54403	1.3495	.52002	.46992	.69525	98.362	.63829	.54383	D182-10A
123	D182-10	73.465	.01255	.05396	.86762	.00652	.01093	.24378	50.959	.16836	.04398	D182-10
124	D182-10J	15.418	.00156	.01204	.17783	.00136	.00300	.05154	10.615	.03489	.00865	D182-10J
125	D182-10M	115.62	1.9416	.54562	1.4855	.51653	.43864	.71528	100.28	.68137	.54375	D182-10M
126	D182-10S	123.77	1.9450	.54407	1.6000	.50846	.43606	.71609	113.63	.68276	.53925	D182-10S
127	D182-01	52.924	.01088	.05594	.61607	.00447	.02438	.10766	28.371	.15959	.03366	D182-01
128	Blank	.03806	-.00028	-.00002	.00121	.00021	.00084	.00007	.07503	.00005	.00007	Blank
129	CCV12	103.05	1.4879	.99953	2.0020	1.4963	2.4019	1.8790	74.662	2.3443	.97274	CCV12
130	CCB12	.03755*	.00048	.00079	.00068	.00025	.00592	.00051*	.01811	.00078	.00026	CCB12
131	D182-02	79.279	.00787	.07105	.88683	.00593	.00851	.02389	19.829	.16414	.03280	D182-02
132	D182-03	66.564	.00622	.06489	.94098	.00511	.00404	.02527	16.204	.14808	.04575	D182-03
133	D182-04	90.412	.01056	.07487	1.1854	.00800	.02439	.13260	57.150	.17427	.05880	D182-04
134	D182-05	85.941	.00763	.06999	1.2217	.00768	.01095	.15681	46.617	.15706	.06245	D182-05
135	D182-06	45.522	.02775	.04955	.48591	.00356	.00871	.35031	92.153	.07648	.02767	D182-06
136	D182-07	68.728	.02727	.06057	.82126	.00496	.00847	.39032	84.284	.10954	.03688	D182-07
137	D182-08	63.563	.00345	.04845	1.1686	.00613	.01053	.01515	19.880	.20571	.08047	D182-08
138	D182-09	86.037	.00525	.07611	1.2279	.00760	.01182	.00686	15.502	.26336	.09974	D182-09
139	Blank	.04055	-.00135	.00000	.00047	-.00002	.00003	.00004	.01087	-.00002	.00013	Blank
140	CCV13	104.14	1.5128	1.0438	1.9990	1.5123	2.4592	2.0073	76.405	2.4594	.98804	CCV13
141	CCB13	.00582	.00087	-.00055	.00050	.00007	.00493	.00007	.01021	-.00004	.00011	CCB13
142	IPD040SB	.00498	.00036	-.00175	.00019	.00005	.00186	-.00008	-.00750	.00049	-.00001	IPD040SB
143	IPD040SL	5.0878	2.3462	.49477	.50283	.51788	.45883	.50160	50.779	.50057	.49918	IPD040SL
144	IPD040SC	5.1321	2.3644	.50001	.50448	.51933	.46266	.50702	52.043	.50457	.50305	IPD040SC
145	D465-01A	91.423	2.4982	.53280	1.2325	.50454	.56859	.46173	1192.8*	.55203	.50767	D465-01A
146	D465-01	89.348	.00497	.00227	.75364	.00083	.07121	.00343	1210.5*	.08137	.00860	D465-01
147	D465-01J	17.773	.00184	.00090	.14933	.00036	.01528	.00052	267.79	.01709	.00169	D465-01J
148	D465-01M	116.27	2.0645	.21880	1.4985	.48433	.58182	.44105	1552.6*	.55188	.48943	D465-01M
149	D465-01S	117.02	2.0380	.23109	1.4801	.50204	.59262	.45292	1557.7*	.57807	.50465	D465-01S
150	D465-02	95.331	.00819	.00069	.37247	.00094	.01400	.00844	146.98	.06692	.02362	D465-02
151	Blank	.02113	-.00055	.00027	.00053	.00008	.00118	.00006	.41288	-.00004	.00008	Blank
152	CCV14	104.10	1.5213	1.0431	1.9712	1.4916	2.4867	1.9887	76.382	2.4628	.97023	CCV14
153	CCB14	.00514	-.00002	.00001	.00033	.00009	.00550	.00011	.00971	-.00006	.00011	CCB14
154	D465-03T	8.0386	.00156	.00921	.03943	.00014	.01002	-.00043	4.0363	.03873	.01394	D465-03T
155	D465-04T	8.0608	.00302	.00558	.03826	.00013	.00463	-.00068	4.0010	.04597	.00375	D465-04T
156	D465-05	64.061	.00896	.04832	.23374	.00095	.50951	.07726	1912.3*	.21059	.02276	D465-05
157	D465-06T	6.1153	.00508	.00159	.01915	.00007	.02931	.00460	51.588	.01278	.29026	D465-06T
158	D465-07	118.76	-.00725	.00650	.75579	.00113	.15111	.01591	1907.6*	.18261	.03682	D465-07
159	D465-08	117.83	.00267	.00250	.35646	.00083	.03799	.00544	547.16	.19307	.01593	D465-08
160	D465-09T	12.431	-.01237	1.5972	.03813	.00013	.00305	-.00024	5.8586	1.2105	.00938	D465-09T
161	D465-10	101.44	.00784	.00498	.88429	.00084	.17976	.00302	1158.4*	.15115	.00832	D465-10
162	D465-11	115.29	.00213	.00373	.97796	.00117	.09838	.00344	1621.7*	.13062	.01492	D465-11
163	Blank	.04007	-.00049	-.00001	.00036	-.00004	.00028	-.00001	.52913	-.00009	-.00002	Blank
164	CCV15	104.49	1.4860	1.0178	2.0048	1.5064	2.4330	1.9484	76.044	2.4099	.98291	CCV15
165	CCB15	.03193	-.00027	.00035	.00146	.00112*	.00547	.00024	.05835	.00060	.00020	CCB15
166	D465-12T	3.8291	.00390	.00607	.03434	.00008	.00129	-.00125	1.3695	.06028	.00463	D465-12T
167	D465-13	101.87	.00357	.00678	.50326	.00087	.06367	.00452	1068.3*	.16550	.01240	D465-13
168	D465-14T	5.0391	.00290	.00663	.02230	.00011	.00209	-.00127	2.0828	.05241	.00353	D465-14T

169	D465-15	108.00	-.00061	.00961	4.6061	.00114	1.1630	.00403	1890.2*	.15800	.01854	D465-15
170	D465-16	107.82	.00444	.00927	5.4992	.00073	.07985	.00734	1285.8*	.26154	.00866	D465-16
171	D465-17	134.28	.01571	.01638	.09118	.00078	.14428	.00209	452.24	.06929	.89395	D465-17
172	D499-01	49.588	.15970	.02391	54.386*	-.00225	.04661	.04850	671.14	5.2100	2.2803	D499-01
173	D479-17T	19.451	-.00128	.00089	.03016	.00013	.03160	.00025	227.10	.00899	.07281	D479-17T
174	D479-18T	12.204	-.00181	-.00067	.02640	.00009	.02974	.00022	271.58	.00411	.09473	D479-18T
175	Blank	.00529	-.00171	.00024	.00028	-.00004	.00014	-.00001	.03743	-.00024	.00008	Blank
176	CCV16	102.17	1.4662	1.0033	1.9798	1.4809	2.4158	1.9064	74.539	2.3860	.97376	CCV16
177	CCB16	.00725	.00019	.00099	.00026	.00007	.00519	.00008	.00415	.00005	.00007	CCB16
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00155	.00001	.00006	-.00009	.00000	.00002	-.00003	-.00069	-.00022	.00000	Blank
2	S20			.24104			.11593					S20
3	S21			2.4011			1.1552					S21
4	S22	.36832	.06459									S22
5	S23	3.4840	2.4217									S23
6	S24							.94934				S24
7	S25							9.6501				S25
8	S26								.99358	.32012		S26
9	S27								9.4497	3.1876		S27
10	S28					.11120						S28
11	S29					.45277						S29
12	S30				.02698						.00167	S30
13	S31				.13305						.00664	S31
14	ICV	2.5778	25.732	2.4445	.52417	56.447	2.3436	2.3992	2.4451	58.944	1.0359	ICV
15	ICB	.00051	.02269	.00002	.00043	.00999	.00024	.00066*	.00029	.10964	.00018	ICB
16	MRLD2101	.01071	.22523	.01014	.01046	.96109	.01008	.00992	.00999	.99654	.00996	MRLD2101
17	MRLD2102	.01058	.10882	.00235*	.10108	.19931	.00494	.00920	.00997	.98950	.01025	MRLD2102
18	ICSA1	.00122	192.80	.00203	.00602	189.39	.00155	-.00076	.00051	.00584	.00029	ICSA1
19	ICSAB1	.53654	192.21	.94035	1.1151	187.51	.45470	.99031	.95835	78.128	1.0393	ICSAB1
20	CCV1	2.5532	25.068	2.4356	.52336	55.630	2.3210	2.4666	2.4434	57.909	1.0193	CCV1
21	CCB1	.00240*	.02109	.00029	.00073	.03482	.00111*	.00158*	.00123*	.12231	.00006	CCB1
22	CCV2	2.5513	25.419	2.4110	.52128	56.209	2.3395	2.4365	2.4107	58.284	1.0269	CCV2
23	CCB2	.00077	.00395	.00030	-.00060	.00758	.00032	.00101*	.00046	.06665	.00053	CCB2
24	IPD041SB	.00005	.00117	.00006	-.00181	-.00805	.00001	.00015	.00012	.02404	.00031	IPD041SB
25	IPD041SL	.49889	5.0528	.49760	-.00010*	47.617	.48200	.51830	.44590	48.252	.47195	IPD041SL
26	IPD041SC	.50011	5.0129	.49839	.00014*	46.959	.47903	.51397	.44541	47.251	.47261	IPD041SC
27	D192-11A	.77424	75.918	.58291	.04953	66.864	.99969	.54619	.60296	59.792	.49505	D192-11A
28	D192-11	.25399	72.907	.06623	.04822	18.406	.51644	.01697	.13237	10.374	.00253	D192-11
29	D192-11J	.05260	15.494	.01389	.01001	3.8600	.10839	.00325	.02642	2.1192	-.00010	D192-11J
30	D192-11M	.77367	81.473	.57320	.05440	67.358	1.0036	.55110	.58222	59.310	.48697	D192-11M
31	D192-11S	.77532	74.186	.67711	.05103	65.398	.95048	.52922	.56820	58.124	.47444	D192-11S
32	D192-01	.32954	82.832	.07501	.06058	23.700	.72300	.01729	.12135	12.647	.00272	D192-01
33	Blank	.00015	.02162	-.00023	.00027	.02880	.00067	.00013	.00017	.07558	-.00033	Blank
34	CCV3	2.5655	25.006	2.4465	.52308	56.021	2.3397	2.4728	2.4519	58.205	1.0205	CCV3
35	CCB3	.00103	.01057	.00014	.00095	.01396	.00035	.00101	.00058	.09322	-.00032	CCB3
36	D192-02	.72569	51.034	.58597	.02677	13.025	.37613	.00470	.34366	5.9704	.00256	D192-02
37	D192-03	.13220	63.486	.04656	.04289	18.115	.45890	.01554	.06720	8.9228	.00240	D192-03
38	D192-06	.29350	76.962	.07631	.04786	19.684	.49602	.01512	.21746	11.425	.00429	D192-06
39	D208-02	.48348	90.116	.10198	.05748	25.590	.68165	.01802	.23609	14.310	.00193	D208-02
40	D208-08	.35144	90.936	.07081	.06171	23.101	.82461	.01295	.21520	11.958	.00354	D208-08
41	D208-12	.17663	72.186	.05171	.05377	22.739	.67420	.00846	.09341	10.490	.00211	D208-12
42	D208-16	.27386	82.265	.06353	.05548	20.100	.67972	.02171	.11641	10.668	.00333	D208-16
43	Blank	.00000	.02729	-.00029	-.00001	.00740	.00008	.00002	.00000	.02621	.00079	Blank
44	CCV4	2.5388	24.866	2.4818	.52602	57.096	2.3678	2.4997	2.4791	58.342	1.0188	CCV4
45	CCB4	.00024	-.00106	-.00017	.00047	.00180	.00014	.00054	.00007	.07163	.00011	CCB4
46	IPD038WB	.00018	.00247	-.00040	-.00033	.00370	.00016	.00028	-.00006	.03417	.00094	IPD038WB
47	IPD038WL	.53101	5.3272	.51100	.00084*	48.076	.49271	.50006	.44825	49.204	.52884	IPD038WL
48	IPD038WC	.52886	5.3389	.50505	.00046*	47.297	.48912	.49155	.44178	48.667	.52553	IPD038WC
49	D170-17A	.53836	5.4588	.51156	.00040	48.620	.49740	.49609	.46101	49.734	.53292	D170-17A
50	D170-17	.00082	.04797	.00032	-.00054	.00788	.00096	.00044	.00520	.08558	-.00052	D170-17
51	D170-17J	.00002	.00876	-.00048	-.00090	.00048	.00019	.00010	.00111	.04171	-.00049	D170-17J
52	D170-17M	.51850	5.1457	.50481	.00057	47.180	.48152	.49477	.44249	48.262	.51017	D170-17M
53	D170-17S	.48385	4.7872	.47068	.00102	47.133	.45132	.49537	.41381	48.186	.47554	D170-17S
54	D192-04	.00025	.01007	-.00005	.00000	.03596	.00018	.00026	.00018	.08593	.00094	D192-04

55	Blank	.00011	-.00075	-.00011	.00043	.00189	-.00014	.00003	-.00012	.03508	.00014	Blank
56	CCV5	2.5310	24.705	2.4793	.52537	56.876	2.3626	2.5007	2.4844	58.221	1.0081	CCV5
57	CCB5	.00020	-.00028	.00023	.00053	.00728	.00013	.00065*	.00004	.07249	.00081	CCB5
58	IPD034WQ	-.00009	-.00260	-.00023	-.00026	.00139	-.00009	.00011	.00006	.01347	.00057	IPD034WQ
59	IPD034WX	.52316	5.2720	.50289	.00053*	47.906	.48662	.49224	.44201	48.837	.51962	IPD034WX
60	IPD034WY	.52411	5.2495	.50199	-.00016*	47.789	.48512	.49248	.43929	48.685	.51604	IPD034WY
61	D122-04A	.54870	9.9608	.53924	.00476	91.694	3.7570	.54750	.45777	58.173	.54294	D122-04A
62	D122-04W	.00164	4.9700	.02885	.00500	44.401	3.4159	.03666	.00060	5.5183	-.00172	D122-04W
63	D122-04J	.00033	1.0320	.00538	.00111	9.2196	.71813	.00722	.00002	1.1174	.00067	D122-04J
64	D122-04G	.52722	9.9064	.52844	.00519	91.983	3.8503	.54457	.44220	57.006	.52355	D122-04G
65	D122-04H	.53110	9.9189	.52781	.00537	91.100	3.8174	.54444	.43890	57.432	.51734	D122-04H
66	D122-01W	.00178	6.6058	.03149	.00517	46.036	2.8815	.04142	.00083	5.1007	-.00051	D122-01W
67	Blank	.00006	-.00065	.00012	.00037	.00891	.00025	.00016	-.00010	.11833	-.00052	Blank
68	CCV6	2.5565	24.986	2.4813	.52402	56.586	2.3517	2.4875	2.4791	58.165	1.0179	CCV6
69	CCB6	.00015	-.00259	-.00015	.00002	.00269	.00018	.00058	.00006	.08295	.00092	CCB6
70	D122-02W	.00157	14.494	.03317	.03128	126.27	2.7267	.05268	.00333	8.7514	.00058	D122-02W
71	D122-03W	.00122	6.8869	.02997	.00677	51.706	3.8989	.03538	.00046	5.1499	-.00020	D122-03W
72	D122-05W	.00110	2.1165	.02865	.00451	40.768	3.2114	.04091	.00025	5.8987	-.00136	D122-05W
73	D122-06W	.00138	6.7197	.03057	.00500	47.983	2.9755	.04309	.00055	5.1892	-.00126	D122-06W
74	Blank	-.00003	.00083	.00019	.00018	.00155	.00053	.00003	-.00010	.08953	.00072	Blank
75	CCV7	2.5311	24.498	2.5150	.52879	56.946	2.3586	2.5307	2.5098	58.185	1.0045	CCV7
76	CCB7	.00075	.00700	.00046	.00034	.01107	.00065	.00101*	.00056	.10667	.00144	CCB7
77	TXD006SB	.00088	.00029	-.00038	.00051	.00270	.00016	.00066	-.00012	.21028	.00316	TXD006SB
78	D462-02A	.65270	5.4648	.52129	.01344	49.031	.51285	.52086	.52866	54.117	.57234	D462-02A
79	D462-02	.10990	.29988	.00447	.01302	1.8094	.02559	.00033	.06033	1.6333	.00229	D462-02
80	D462-02J	.02106	.05510	.00074	.00226	.34290	.00512	.00014	.01149	.40460	.00000	D462-02J
81	D462-02M	.67361	5.3630	.51226	.01537	47.295	.49881	.51901	.51847	53.900	.56997	D462-02M
82	D462-02S	.64485	5.4644	.50508	.01347	48.518	.50189	.50388	.50500	53.202	.56662	D462-02S
83	D462-03	.23628	.05190	.00374	.00368	.84912	.09800	.00114	.01957	1.4203	.00277	D462-03
84	D462-07	.00569	.03908	.00174	.00080	.81149	.00601	.00021	.00391	.97961	.00298	D462-07
85	D462-08	.00329	.03575	.00180	.00226	1.2458	.00781	.00021	.00307	1.1841	.00238	D462-08
86	Blank	.00013	.00189	.00032	-.00122	-.00444	.00010	-.00003	-.00012	.10722	.00033	Blank
87	CCV8	2.5437	24.412	2.5077	.52745	56.391	2.3390	2.5392	2.5103	58.232	.99871	CCV8
88	CCB8	.00078	.00786	.00097	-.00022	.00075	.00029	.00124*	.00059	.12289	-.00031	CCB8
89	D462-09	.00236	.00984	.00001	.00769	.25171	.00264	.00057	.00102	.66150	.00205	D462-09
90	D463-01	.00241	.21276	.00120	.00100	3.1819	.10477	.00033	.00422	2.3924	.00306	D463-01
91	D494-01	1.4953	-.00595	.00730	.02293	13.871	1.1728	.00072	2.8042	5.2071	.00170	D494-01
92	D182-01	.08147	151.18	1.1146	.03513	8.8083	2.4520	.00654	.07065	5.2015	.00680	D182-01
93	D182-04	.42870	150.11	1.1351	.04289	23.760	4.5183	.00690	.15018	8.7451	.00969	D182-04
94	D182-07	.10223	126.74	5.7170	.03546	19.363	1.6760	.00550	.08119	4.3654	.00722	D182-07
95	Blank	-.00002	.04160	.00010	-.00075	.00743	.00130	-.00001	-.00015	.03826	.00085	Blank
96	CCV9	2.5358	24.859	2.4773	.52563	56.540	2.3501	2.4900	2.4710	58.489	1.0109	CCV9
97	CCB9	.00097	.00854	.00016	-.00015	.01212	.00040	.00108*	.00070	.07343	.00141	CCB9
98	TXD007WB	.00008	.00225	.00012	.00015	-.00624	.00048	.00016	-.00001	.01582	.00009	TXD007WB
99	D462-01A	3.1156	5.4163	.52866	.00152	49.013	.70348	.50485	.47380	51.245	.53644	D462-01A
100	D462-01	2.6535	.01870	.00624	.00067	.07309	.21186	.00007	.00613	.32813	.00094	D462-01
101	D462-01J	.53197	.00331	.00109	-.00032	.01696	.04324	.00004	.00127	.09232	.00016	D462-01J
102	D462-06	.00478	27.926	.00161	.00634	19.418	1.0285	.00900	.05313	6.1404	.00269	D462-06
103	D462-06M	.53417	35.144	.48141	.00769	63.703	1.4903	.51021	.48282	57.836	.53316	D462-06M
104	D462-06S	.57229	36.433	.51861	.00849	69.751	1.6445	.54610	.51914	61.989	.57139	D462-06S
105	D462-10	.01116	1.4304	.00148	.00229	.88683	.11116	.00050	.00325	1.7338	.00149	D462-10
106	D478-01	.55559	13.058	2.2293	.16872	.02291	.43979	.09488	.13245	29.274	.01448	D478-01
107	Blank	.00010	.00535	.00041	.00055	.00345	.00021	.00010	.00003	.26095	.00047	Blank
108	CCV10	2.5639	23.989	2.5205	.53693	55.574	2.3233	2.5726	2.5261	58.580	.98216	CCV10
109	CCB10	.00106	.00959	.00038	.00039	.00758	.00043	.00126*	.00062	.14466*	.00092	CCB10
110	WTD004SB	.00310	.01977	-.00050	.00320	.03818	.00041	.00023	.00114	2.0836*	.02923*	WTD004SB
111	D081-01A	.58607	167.26	.53107	.00632	51.756	.65128	.57140	.49735	56.390	.59060	D081-01A

112	D081-01T	.00974	161.97	.00987	.00527	4.9885	.16562	03167	.01439	.81217	.00458	D081-01T
113	D081-01J	.00213	33.797	.00115	.00218	1.0326	03422	00609	00265	.30878	00064	D081-01J
114	D081-01M	.12745	184.97	.11286	.00543	14.545	.28005	.14194	10725	11.871	.11703	D081-01M
115	D081-01S	.12612	174.77	.11218	.00586	14.140	26712	.14063	10687	11.879	.11683	D081-01S
116	Blank	.00003	.01996	.00004	.00138	-.00132	00000	00005	00003	.19827	-.00011	Blank
117	CCV11	2.5720	24.353	2.4671	.53241	54.735	2.2959	2.5192	2.4815	58.684	1.0002	CCV11
118	CCB11	.00108	.00873	.00066	.00072	.00864	00038	00120*	00072	.15843*	.00048	CCB11
119	IPD039SB	-.00008	-.00123	.00016	.00031	-.00072	00002	00016	-.00002	.08693	.00164	IPD039SB
120	IPD039SL	.51882	5.0721	.50255	.00108*	46.516	.47320	52801	.45256	49.094	.48353	IPD039SL
121	IPD039SC	.50938	5.0257	.49458	.00140*	45.875	.47057	.51921	.44499	48.060	.47540	IPD039SC
122	D182-10A	.68099	116.16	5.4505	.03754	65.411	3.4393	.52273	54776	55.835	.48806	D182-10A
123	D182-10	.15925	116.34	5.2441	.03682	19.620	3.1058	.00378	09047	6.8169	.00485	D182-10
124	D182-10J	.03200	24.668	1.0783	.00783	4.0899	.65197	.00062	01785	1.4081	.00121	D182-10J
125	D182-10M	.71273	131.44	5.9380	.05979	66.548	3.5248	.50422	55766	57.849	.48073	D182-10M
126	D182-10S	.71002	155.15	6.8753	.06359	72.453	4.2342	.50827	55947	57.821	.47165	D182-10S
127	D182-01	.06244	133.37	.92899	.02314	8.3727	1.8171	.00554	.05657	3.6262	.00520	D182-01
128	Blank	.00016	.05694	.00023	.00002	.03259	.00299	.00008	.00004	.07785	.00033	Blank
129	CCV12	2.5162	24.286	2.4325	.53001	55.242	2.2911	2.4831	2.4349	58.433	.97520	CCV12
130	CCB12	.00102	.00862	.00061	-.00018	.00523	.00040	00115*	.00061	.09878	.00027	CCB12
131	D182-02	.04433	166.81	.25796	.03468	6.5487	1.3601	.00776	.04875	4.1414	.00521	D182-02
132	D182-03	.03817	151.35	.27020	.02814	5.2124	2.6083	.00742	.04301	3.4794	.00441	D182-03
133	D182-04	.25881	134.46	.70419	.04627	18.403	3.8803	.00450	.11081	7.4083	.00834	D182-04
134	D182-05	.25378	130.44	.65400	.04227	15.955	3.6105	.00513	11544	6.9811	.00581	D182-05
135	D182-06	.10200	85.405	7.6000	.02914	24.794	1.2455	.00325	.07700	4.1871	.00746	D182-06
136	D182-07	.10037	119.81	5.3265	.03896	21.083	1.6411	.00555	.07716	4.3661	.00520	D182-07
137	D182-08	.08451	120.75	.38989	.03238	5.8940	6.3805	.00557	.08332	10.273	.00412	D182-08
138	D182-09	.08930	172.59	.29428	.04304	7.3581	7.0145	.00776	.10052	12.327	.00351	D182-09
139	Blank	-.00018	.07466	.00043	-.00034	.00236	.00146	.00002	.00006	.01340	.00010	Blank
140	CCV13	2.5419	24.887	2.4796	.52907	56.919	2.3492	2.4884	2.4750	59.253	1.0059	CCV13
141	CCB13	.00003	.00082	-.00007	-.00050	.00518	.00015	.00055	-.00004	.05826	.00070	CCB13
142	IPD040SB	.00002	.00698	.00000	-.00003	.00507	.00023	.00037	.00024	.07577	.00134	IPD040SB
143	IPD040SL	.50917	5.1775	.50639	.00022*	47.755	.48458	.51929	45374	48.666	.48280	IPD040SL
144	IPD040SC	.51424	5.1937	.51113	.00067*	48.884	.48716	.52195	45729	50.061	.48763	IPD040SC
145	D465-01A	.64008	59.725	.64866	.04080	100.21	1.0372	.53983	50732	61.694	.52954	D465-01A
146	D465-01	.09375	57.468	.15942	.04160	55.581	.60449	.00287	.05296	7.3325	.00328	D465-01
147	D465-01J	.01862	12.121	.03179	.00775	11.329	.12447	-.00041	.01015	1.4157	.00001	D465-01J
148	D465-01M	.64414	71.344	.66208	.05651	120.90	1.2174	.42055	.49289	63.242	.31662	D465-01M
149	D465-01S	.67725	74.815	.68242	.05683	119.51	1.2637	.42400	.51467	64.157	.34908	D465-01S
150	D465-02	.17040	79.423	.13848	.01522	9.8894	.25256	00124	.06902	13.779	.00212	D465-02
151	Blank	-.00005	.01506	-.00004	.00022	.03409	.00026	.00003	-.00002	.05977	.00059	Blank
152	CCV14	2.5311	25.200	2.4318	.52321	56.299	2.3062	2.4499	2.4295	59.014	1.0146	CCV14
153	CCB14	.00004	-.00033	.00007	00019	.00271	.00015	.00063*	00012	09068	.00008	CCB14
154	D465-03T	.04152	51.414	.02861	.00251	1.6257	.14677	.00332	.01445	1.8636	.00037	D465-03T
155	D465-04T	.03937	72.071	.03538	.00238	.93649	.12144	.00345	.01617	1.9635	-.00001	D465-04T
156	D465-05	.08600	47.241	.58678	.10650	81.387	1.5000	.00965	.10911	8.4989	.00518	D465-05
157	D465-06T	.01940	35.856	.06893	.00819	4.9502	.10753	.07156	.00800	.31675	.00016	D465-06T
158	D465-07	.16888	99.518	.13029	.07130	160.85	1.5508	.00095	.13624	7.9737	.00024	D465-07
159	D465-08	.23313	121.20	.17772	02973	14.296	1.2369	.00550	.09136	15.470	.00232	D465-08
160	D465-09T	.87053	41.903	.02207	.00373	1.2302	.08909	.00197	.00939	2.7286	.00083	D465-09T
161	D465-10	.10185	60.997	.13458	.04453	52.931	.56661	.00404	.03909	9.8095	.00211	D465-10
162	D465-11	.22077	73.379	.15762	.05657	82.446	.89690	.00120	.08618	9.3885	.00187	D465-11
163	Blank	.00004	.03187	-.00029	.00033	.01835	.00016	.00000	.00009	.05634	-.00028	Blank
164	CCV15	2.5167	24.843	2.4768	.53174	56.484	2.3171	2.4881	2.4631	59.347	.98629	CCV15
165	CCB15	.00070	.00653	.00050	.00046	.04232*	.00194*	.00071*	.00033	.12410	.00112	CCB15
166	D465-12T	.03605	112.34	.02580	.00187	.79679	.08492	.00514	.02088	.61033	-.00025	D465-12T
167	D465-13	.16660	88.720	.16909	.03494	25.980	.43313	.00561	.06479	13.561	.00233	D465-13
168	D465-14T	.03554	97.128	.03221	.00163	.67882	.06500	.00441	.01697	1.0029	-.00081	D465-14T

169	D465-15	.12373	64.598	.19848	.06778	141.08	1.1916	.00141	.08974	7.1851	.00416	D465-15
170	D465-16	.45245	57.766	.57740	.04710	39.533	.70957	.00344	04119	7.2129	.00060	D465-16
171	D465-17	.16698	96.147	.38421	.05681	52.324	.39601	.00238	.04217	20.837	.00243	D465-17
172	D499-01	4.4583	193.95	2.5870	.15116	27.888	2.8429	9.6346*	12952	4.7716	.00602	D499-01
173	D479-17T	.01203	2.8954	.01120	.01347	3.1241	.08966	.00325	.00525	3.9442	-.00033	D479-17T
174	D479-18T	.00631	2.4792	.00963	.01517	3.2032	.09749	.00107	.00565	1.9869	.00037	D479-18T
175	Blank	.00001	.00619	-.00010	-.00024	.00108	.00009	.00014	.00006	.03009	.00056	Blank
176	CCV16	2.5005	24.449	2.4403	.52748	55.072	2.2756	2.4655	2.4354	59.073	.97221	CCV16
177	CCB16	.00021	.00637	.00007	.00060	.00357	.00012	.00062*	00052	.05313	.00003	CCB16
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00015	.00087	-.00012	-.00002	.00010	.00002	-.00016	.00115	Blank
2	S20									S20
3	S21									S21
4	S22							.16159		S22
5	S23							1.5961		S23
6	S24		1.0369							S24
7	S25		6.0535							S25
8	S26									S26
9	S27									S27
10	S28				.00715					S28
11	S29				.06808					S29
12	S30	.04882		.13416		.03251	.01628		.75768	S30
13	S31	.24100		.65839		.15828	.08096		7.4827	S31
14	ICV	.50679	62.372	.48720	2.3472	.47395	.48793	1.4935	2.5907	ICV
15	ICB	.00000	.09759	.00008	.00091	-.00040	.00045	.00022	-.00026	ICB
16	MRLD2101	.01012	1.0397	.01010	.01099	.00014	.00998	.01038	.02139	MRLD2101
17	MRLD2102	.00962	.52601	.00992	.01146	.00973	.01008	.00992	.01131	MRLD2102
18	ICSA1	.00007	.13213	.00132	-.00034	.00205	.00372	-.00056	.00232	ICSA1
19	ICSAB1	1.0719	82.431	.48595	.83999	.96955	.96777	.49138	1.0236	ICSAB1
20	CCV1	.49905	62.417	.48935	2.3170	.50573	.49046	1.4837	2.6169	CCV1
21	CCB1	.00026	.07786	.00038	.00132	.00012	.00007	.00084*	.01328	CCB1
22	CCV2	.50526	62.607	.49139	2.3726	.50236	.48822	1.5051	2.6062	CCV2
23	CCB2	-.00002	.03200	.00000	.00066	-.00005	.00012	.00018	-.00050	CCB2
24	IPD041SB	-.00009	-.00251	-.00002	.00069	.00014	-.00051	-.00004	-.00118	IPD041SB
25	IPD041SL	.46298	51.510	.46337	.46262	.52280	.50231	.49867	.53541	IPD041SL
26	IPD041SC	.46507	50.484	.45901	.45999	.51879	.49736	.49853	.53622	IPD041SC
27	D192-11A	.47583	78.549	.63101	.46286	.54160	2.3019	.66915	.80176	D192-11A
28	D192-11	.00861	26.368	.15705	.00010	.04683	1.8166	.16359	.24451	D192-11
29	D192-11J	.00178	5.3964	.03239	-.00033	.00908	.37467	.03368	.04882	D192-11J
30	D192-11M	.48779	78.955	.64145	.45212	.53340	2.6523	.67824	.85494	D192-11M
31	D192-11S	.47205	76.491	.63022	.43934	.53291	2.4345	.65732	.75622	D192-11S
32	D192-01	.01974	42.416	.20128	-.00195	.04678	2.0938	.20085	.28343	D192-01
33	Blank	.00022	.06690	.00036	.00015	.00011	.00153	.00012	-.00044	Blank
34	CCV3	.50175	62.567	.49141	2.3279	.50488	.49110	1.4809	2.6288	CCV3
35	CCB3	.00006	.04468	.00009	.00095	-.00020	.00038	.00041	-.00042	CCB3
36	D192-02	.09028	24.181	.14556	-.00005	.06000	1.0863	.10660	.70740	D192-02
37	D192-03	.01881	37.322	.12818	-.00059	.04464	1.5686	.13348	.15929	D192-03
38	D192-06	.01829	33.756	.17060	.00003	.04756	1.7996	.16962	.28796	D192-06
39	D208-02	.02286	47.112	.19903	-.00037	.04757	2.2066	.19897	.37722	D208-02
40	D208-08	.01289	28.761	.21064	-.00085	.04728	2.2670	.18885	.30763	D208-08
41	D208-12	.01770	20.836	.15958	-.00083	.04725	2.0516	.15489	.22181	D208-12
42	D208-16	.01044	23.060	.16144	-.00019	.04673	2.0711	.17079	.26160	D208-16
43	Blank	-.00023	.01137	.00003	.00014	-.00015	.00014	.00002	-.00045	Blank
44	CCV4	.49553	62.798	.49235	2.3468	.50733	.49629	1.4678	2.6689	CCV4
45	CCB4	-.00007	.02425	.00003	.00048	-.00015	.00018	.00008	-.00097	CCB4
46	IPD038WB	-.00009	.00222	.00002	-.00052	-.00017	.00012	-.00002	.00037	IPD038WB
47	IPD038WL	.51268	52.201	.47698	.51097	.48657	.51038	.51489	.54139	IPD038WL
48	IPD038WC	.51362	51.524	.47251	.50882	.47987	.50448	.51460	.53496	IPD038WC
49	D170-17A	.50044	52.859	.47714	.52696	.48423	.50812	.52332	.55115	D170-17A
50	D170-17	.00001	.09327	.00016	.00024	-.00003	-.00003	.00007	.00954	D170-17
51	D170-17J	.00001	.02301	.00004	.00015	-.00020	.00008	.00006	.00183	D170-17J
52	D170-17M	.49991	51.265	.46640	.49374	.47626	.49667	.49659	.53154	D170-17M
53	D170-17S	.46184	51.242	.46720	.46053	.47736	.50062	.46302	.49517	D170-17S
54	D192-04	-.00007	.49643	.00102	-.00003	.00010	.00026	.00020	.00116	D192-04

55	Blank	-.00002	.01154	.00004	.00019	-.00025	-.00040	.00010	-.00043	Blank
56	CCV5	.49133	62.668	.49116	2.3237	.50853	.49468	1.4622	2.6632	CCV5
57	CCB5	-.00002	.03364	.00005	.00048	-.00003	.00002	.00003	-.00085	CCB5
58	IPD034WQ	-.00023	-.00026	.00007	.00009	-.00004	-.00056	.00001	-.00105	IPD034WQ
59	IPD034WX	.50801	51.750	.46994	.50642	.48024	.50338	.50858	.53357	IPD034WX
60	IPD034WY	.50734	51.681	.46890	.50516	.47822	.50019	.50731	.53109	IPD034WY
61	D122-04A	.52180	213.25	2.0651	.47573	.48951	.51660	.51629	.54951	D122-04A
62	D122-04W	-.00028	166.00	1.6486	-.00021	.00009	.01365	.00077	.00502	D122-04W
63	D122-04J	-.00007	33.920	.33707	.00026	-.00026	.00309	.00001	.00033	D122-04J
64	D122-04G	.51615	216.14	2.1072	.45845	.48553	.51716	.49584	.54388	D122-04G
65	D122-04H	.52079	217.82	2.1039	.45156	.48550	.52413	.49607	.53871	D122-04H
66	D122-01W	-.00021	157.41	1.6053	-.00101	.00037	.00832	.00001	.00769	D122-01W
67	Blank	-.00015	.14606	.00011	-.00029	-.00006	-.00058	-.00004	-.00051	Blank
68	CCV6	.49881	62.656	.49076	2.3542	.50734	.49318	1.4771	2.6841	CCV6
69	CC86	-.00006	.08614	-.00002	.00045	.00021	.00009	.00007	-.00088	CCB6
70	D122-02W	-.00017	395.11	3.3979	-.00094	-.00040	.00166	-.00040	.00522	D122-02W
71	D122-03W	-.00017	159.69	1.7918	-.00103	-.00014	.00206	-.00021	.00193	D122-03W
72	D122-05W	-.00014	160.65	1.5757	-.00052	-.00068	.00171	-.00026	.00430	D122-05W
73	D122-06W	-.00021	163.28	1.6508	-.00081	.00024	.00915	.00019	.00453	D122-06W
74	Blank	-.00001	.17145	.00019	.00022	-.00026	-.00018	-.00010	-.00049	Blank
75	CCV7	.49021	62.805	.48989	2.3287	.51109	.49875	1.4498	2.7023	CCV7
76	CCB7	.00017	.11037	.00007	.00088	-.00012	-.00002	.00027	.00007	CCB7
77	TXD006SB	.00019	389.45*	.00154	-.00132	.00062	-.00040	.00014	.00137	TXD006SB
78	D462-02A	.51142	414.01	.49996	.48005	.49156	.51037	.51092	1.1935	D462-02A
79	D462-02	.00001	371.68	.02269	-.00142	.00051	-.00017	.00012	.67194	D462-02
80	D462-02J	-.00012	74.579	.00444	.00023	.00005	-.00016	.00013	.12077	D462-02J
81	D462-02M	.53301	447.37	.49831	.46069	.48663	.50214	.50430	1.0750	D462-02M
82	D462-02S	.52531	415.93	.48837	.47155	.47967	.50240	.50828	1.0439	D462-02S
83	D462-03	.00009	505.63	.06225	-.00220	.00123	.00108	.00000	2.6219	D462-03
84	D462-07	-.00003	354.30	.15056	-.00119	.00128	-.00003	.00016	.55235	D462-07
85	D462-08	-.00019	362.19	.20935	-.00128	.00107	.00016	.00014	.37266	D462-08
86	Blank	-.00015	.36442	.00006	-.00012	-.00005	.00011	-.00003	-.00040	Blank
87	CCV8	.49361	62.874	.48992	2.3047	.51040	.49357	1.4541	2.6641	CCV8
88	CCB8	.00001	.16723*	.00013	.00045	.00011	.00015	.00050	.00075	CCB8
89	D462-09	-.00018	344.93	.04768	-.00115	.00090	-.00015	.00035	.37854	D462-09
90	D463-01	.00012	352.89	.08417	-.00154	.00102	.00040	.00399	.62498	D463-01
91	D494-01	-.00011	383.37	.75858	-.00173	.00069	.00119	.00000	2.3985	D494-01
92	D182-01	-.00026	1.0338	.07577	-.00191	.04831	1.1291	.25761	19.048	D182-01
93	D182-04	-.00019	.59245	.09383	-.00166	.04942	1.1580	.27454	53.523*	D182-04
94	D182-07	-.00019	.69463	.07256	-.00052	.04748	.94496	.22788	44.995*	D182-07
95	Blank	.00006	.06404	.00004	.00040	.00008	.00016	-.00002	.00364	Blank
96	CCV9	.49534	62.829	.49275	2.3432	.50673	.49437	1.4672	2.6534	CCV9
97	CCB9	.00004	.10203	.00017	.00122	-.00018	.00000	.00057	.00078	CCB9
98	TXD007WB	.00006	.07109	.00001	.00037	-.00049	-.00007	-.00003	.00053	TXD007WB
99	D462-01A	.50283	55.234	.49097	.51951	.49293	.51782	.52416	7.6398	D462-01A
100	D462-01	-.00011	1.3142	.00623	.00024	.00032	.00033	.00022	6.8772	D462-01
101	D462-01J	-.00011	.30390	.00126	-.00011	.00021	.00002	.00012	1.4228	D462-01J
102	D462-06	-.00034	382.87	.75200	-.00174	.00122	.00233	.00038	.07262	D462-06
103	D462-06M	.52067	444.68	1.2432	.42999	.47168	.48822	.49746	.59261	D462-06M
104	D462-06S	.56214	499.72	1.3569	.45976	.50420	.52327	.53197	.63781	D462-06S
105	D462-10	-.00003	8.1508	.06137	-.00089	.00106	.00117	.00080	3.1505	D462-10
106	D478-01	.00003	924.30*	.00360	-.00872*	.01139	.00177	.01082	32.592	D478-01
107	Blank	-.00018	1.0479	.00010	.00023	.00001	.00009	.00002	.00445	Blank
108	CCV10	.48710	63.326	.49493	2.2423*	.51116	.49846	1.4374	2.6358	CCV10
109	CCB10	.00002	.22508*	.00015	.00095	.00001	-.00022	.00052	.00084	CCB10
110	WTD004SB	.00012	*****	.00710*	-.01961	.01099	.00054	.00047	.30626*	WTD004SB
111	D081-01A	.53734	574.96	.63400	.45246	.50479	.53144	.53476	.75454	D081-01A

112	D081-01T	.00017	510.64	.14717	-.00307	.00536	.02169	.01236	.17401	D081-01T
113	D081-01J	-.00016	107.66	.02983	-.00027	.00116	.00445	.00257	.03378	D081-01J
114	D081-01M	.11152	576.27	.25569	.08695	.10390	.12696	.11919	.16062	D081-01M
115	D081-01S	.11033	541.88	.24680	.08549	.10399	.12533	.11783	.15697	D081-01S
116	Blank	-.00017	.52890	.00003	.00010	.00030	-.00036	.00018	-.00028	Blank
117	CCV11	.49266	63.284	.49431	2.2607	.50748	.49331	1.4563	2.5944	CCV11
118	CCB11	.00004	.30612*	.00019	.00101	.00011	.00030	.00058	.00059	CCB11
119	IPD039SB	-.00020	.22378	.00003	.00051	.00002	-.00036	.00017	-.00125	IPD039SB
120	IPD039SL	.47601	52.403	.47206	.46085	.53178	.50822	.50987	.53553	IPD039SL
121	IPD039SC	.46915	51.192	.46637	.45378	.52591	.50362	.50438	.52702	IPD039SC
122	D182-10A	.46130	52.629	.53050	.43401	.53009	1.9756	.69795	36.647*	D182-10A
123	D182-10	-.00046	.41160	.06222	-.00124	.04908	1.5206	.20732	37.434*	D182-10
124	D182-10J	-.00022	.15948	.01271	-.00046	.01020	.31155	.04244	7.9634	D182-10J
125	D182-10M	.48285	52.983	.53609	.42812	.52073	2.2102	.72860	40.242*	D182-10M
126	D182-10S	.47127	52.472	.54875	.41588	.52639	2.3632	.75644	42.102*	D182-10S
127	D182-01	-.00016	.37007	.05295	-.00147	.05403	.85855	.22268	15.715	D182-01
128	Blank	-.00005	.11089	.00030	-.00006	.00024	.00134	.00038	.00402	Blank
129	CCV12	.48207	62.803	.48950	2.2290*	.50566	.49447	1.4492	2.5628	CCV12
130	CCB12	.00013	.12389	.00011	.00117	.00018	-.00032	.00050	.00091	CCB12
131	D182-02	-.00054	.35350	.05829	-.00106	.04620	1.2124	.31935	3.6885	D182-02
132	D182-03	-.00058	.28085	.04816	-.00117	.04664	1.0217	.28683	3.9584	D182-03
133	D182-04	-.00041	.37166	.08687	-.00162	.04846	1.1624	.28140	27.350	D182-04
134	D182-05	-.00059	.32500	.08703	-.00164	.04789	1.2757	.25981	34.254	D182-05
135	D182-06	-.00010	.35600	.05458	-.00081	.04763	.64503	.14365	50.962*	D182-06
136	D182-07	-.00036	.42911	.07302	-.00160	.04847	.98847	.21966	54.788*	D182-07
137	D182-08	-.00052	2.4138	.07340	-.00210	.04686	1.8573	.22070	2.2331	D182-08
138	D182-09	-.00065	2.5609	.07180	-.00234	.04834	2.4764	.30554	1.3368	D182-09
139	Blank	-.00004	.03392	-.00002	.00030	-.00003	.00032	.00006	.00507	Blank
140	CCV13	.49746	63.455	.49498	2.3471	.50863	.49590	1.4672	2.6597	CCV13
141	CCB13	-.00007	.07078	.00009	.00045	.00007	-.00026	.00011	.00012	CCB13
142	IPD040SB	-.00025	.07035	-.00001	.00026	.04169	.00008	.00018	.00146	IPD040SB
143	IPD040SL	.47606	51.588	.46729	.47315	.52818	.50810	.50700	.54935	IPD040SL
144	IPD040SC	.48018	53.025	.47067	.47769	.53160	.50898	.51449	.55190	IPD040SC
145	D465-01A	.52077	76.804	1.6525	.41317	.62481	9.1110	.57448	110.05*	D465-01A
146	D465-01	-.00069	21.027	1.2252	-.00263	.14439	8.9394	.07985	114.13*	D465-01
147	D465-01J	-.00024	4.0648	.24226	-.00026	.02764	1.8217	.01614	29.090	D465-01J
148	D465-01M	.52970	82.388	2.1963	.37993	.63307	12.207	.57784	124.67*	D465-01M
149	D465-01S	.55248	83.813	2.4742	.39121	.63531	11.078	.60860	121.34*	D465-01S
150	D465-02	.00786	30.065	.24561	-.00040	.28454	5.0570	.05004	21.629	D465-02
151	Blank	.00009	.08046	.00054	.00020	.00009	.00361	-.00002	.01113	Blank
152	CCV14	.50042	62.888	.48714	2.3438	.50334	.49112	1.4910	2.6100	CCV14
153	CCB14	-.00018	.07562	.00008	.00053	.00008	.00006	.00008	.00045	CCB14
154	D465-03T	.00014	4.8143	.02564	.00034	.03401	.16073	.01375	.16821	D465-03T
155	D465-04T	.00008	4.1487	.02563	.00023	.03856	.17091	.01420	.18570	D465-04T
156	D465-05	.00036	27.652	4.5115	-.00513*	.06970	7.4400	.15001	179.66*	D465-05
157	D465-06T	.00029	.68640	.05531	.00058	.06293	.23683	.01456	41.133*	D465-06T
158	D465-07	-.00086	24.834	5.0279	-.00402	.10992	14.715	.33810	112.58*	D465-07
159	D465-08	.00424	46.806	.44008	-.00331	.20154	11.829	.12834	150.58*	D465-08
160	D465-09T	.00015	6.0483	.02465	.00085	.02235	.18008	.00733	2.2692	D465-09T
161	D465-10	-.00053	25.237	1.0263	-.00316	.16422	7.1879	.08307	84.028*	D465-10
162	D465-11	-.00002	27.604	3.1462	-.00319	.13990	9.3024	.16274	83.700*	D465-11
163	Blank	-.00016	.06178	.00077	.00029	.00024	.00324	.00012	.03184	Blank
164	CCV15	.49012	63.358	.49037	2.2914	.51006	.49801	1.4691	2.6418	CCV15
165	CCB15	.00000	.11035	.00032	.00056	.00022	.00015	.00044	.00252	CCB15
166	D465-12T	-.00002	1.1910	.01546	.00092	.06530	.15269	.01000	.39726	D465-12T
167	D465-13	-.00015	25.979	.50699	-.00279	.21427	10.926	.07790	154.07*	D465-13
168	D465-14T	.00010	2.1690	.01495	.00080	.05041	.15335	.00798	.21103	D465-14T

169	D465-15	-.00057	22.075	3.7297	-.00263	.09326	9.8507	.15914	72.290*	D465-15
170	D465-16	-.00027	17.008	1.5933	-.00271	.12288	8.3185	.06676	113.79*	D465-16
171	D465-17	.00098	48.807	.71865	-.00141	.32607	6.6703	.04130	41.719*	D465-17
172	D499-01	.01427	19.142	1.1975	.00151	.17679	7.1303	.19383	150.70*	D499-01
173	D479-17T	.00137	9.0332	.11510	.00019	.03914	.82716	.00588	.38844	D479-17T
174	D479-18T	.00202	4.4838	.07476	-.00045	.03621	.76480	.00521	.34906	D479-18T
175	Blank	-.00014	.03624	.00000	.00023	.00000	.00010	.00002	.00358	Blank
176	CCV16	.48701	62.791	.48707	2.2521	.50254	.48892	1.4519	2.5862	CCV16
177	CCB16	.00002	.06509	.00005	.00061	-.00024	-.00019	.00001	.00021	CCB16
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8D024 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/22/11 11:13

End Date: 4/22/11 19:16

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments:

D1190-04 TOT Se high neg
04 DISS
03 DISS
D1191-02 TOT
03 TOT
02 DISS
03 DISS

Book #: AD8-019

Instrument No.: D8

Analytical Batch: 1D8D025

Analytical Sequence: S-11D6010 (V26)

Method File: 11D6010(V26)

Database: Emax13

	STANDARDS ID		STANDARDS ID
S0	SM1B14-50-04	S30	SM1B14-4201
S1	NA	S31	4202
S2		ICV	5412
S3		CCV	5005
S4		ICSA	5001
S5		ICSAB	4601
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SM1B14-4109
S10		MRL2	5302
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-3102		
S21	3702		
S22	3703		
S23	3704		
S24	4001		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Analyzed By: TH

Date: 4/22/11

7054

SEQUENCE FILE : ID8D025

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8D025001	Blank	11:13	04/22/11	1.000
ID8D025002	S20	11:16	04/22/11	1.000
ID8D025003	S21	11:18	04/22/11	1.000
ID8D025004	S22	11:21	04/22/11	1.000
ID8D025005	S23	11:24	04/22/11	1.000
ID8D025006	S24	11:27	04/22/11	1.000
ID8D025007	S25	11:30	04/22/11	1.000
ID8D025008	S26	11:33	04/22/11	1.000
ID8D025009	S27	11:36	04/22/11	1.000
ID8D025010	S28	11:39	04/22/11	1.000
ID8D025011	S29	11:42	04/22/11	1.000
ID8D025012	S30	11:45	04/22/11	1.000
ID8D025013	S31	11:48	04/22/11	1.000
ID8D025014	ICV	11:50	04/22/11	1.000
ID8D025015	ICB	11:53	04/22/11	1.000
ID8D025016	MRLD2201	11:56	04/22/11	1.000
ID8D025017	MRLD2202	11:59	04/22/11	1.000
ID8D025018	ICSA1	12:02	04/22/11	1.000
ID8D025019	ICSAB1	12:05	04/22/11	1.000
ID8D025020	CCV1	12:07	04/22/11	1.000
ID8D025021	CCB1	12:10	04/22/11	1.000
ID8D025022	WTD004SQ	12:13	04/22/11	5.000
ID8D025023	D182-10A	12:16	04/22/11	10.00
ID8D025024	D182-10T	12:19	04/22/11	10.00
ID8D025025	D182-10J	12:21	04/22/11	50.00
ID8D025026	D182-10G	12:24	04/22/11	10.00
ID8D025027	D182-10H	12:27	04/22/11	10.00
ID8D025028	D182-06T	12:29	04/22/11	10.00
ID8D025029	D182-07T	12:32	04/22/11	10.00
ID8D025030	Blank	12:35	04/22/11	1.000
ID8D025031	CCV2	12:38	04/22/11	1.000
ID8D025032	CCB2	12:40	04/22/11	1.000
ID8D025033	D479-17T	12:44	04/22/11	5.000
ID8D025034	D479-18T	12:46	04/22/11	5.000
ID8D025035	D465-01A	12:49	04/22/11	5.000
ID8D025036	D465-01T	12:52	04/22/11	5.000
ID8D025037	D465-01J	12:55	04/22/11	25.00
ID8D025038	D465-01G	12:58	04/22/11	5.000
ID8D025039	D465-01H	13:00	04/22/11	5.000
ID8D025040	D465-05T	13:03	04/22/11	5.000
ID8D025041	D465-07T	13:06	04/22/11	5.000
ID8D025042	Blank	13:09	04/22/11	1.000
ID8D025043	CCV3	13:12	04/22/11	1.000
ID8D025044	CCB3	13:14	04/22/11	1.000
ID8D025045	D465-10T	13:17	04/22/11	5.000
ID8D025046	D465-11T	13:20	04/22/11	5.000
ID8D025047	D465-13T	13:23	04/22/11	5.000
ID8D025048	D465-15T	13:26	04/22/11	5.000
ID8D025049	D465-16T	13:29	04/22/11	5.000
ID8D025050	Blank	13:32	04/22/11	1.000
ID8D025051	CCV4	13:34	04/22/11	1.000
ID8D025052	CCB4	13:37	04/22/11	1.000
ID8D025053	IPD034WQ	13:55	04/22/11	1.000
ID8D025054	IPD034WX	13:57	04/22/11	1.000

ID8D025055	IPD034WY	14:00	04/22/11	1.000
ID8D025056	D122-04A	14:03	04/22/11	1.000
ID8D025057	D122-04W	14:05	04/22/11	1.000
ID8D025058	D122-04J	14:08	04/22/11	5.000
ID8D025059	D122-04G	14:11	04/22/11	1.000
ID8D025060	D122-04H	14:14	04/22/11	1.000
ID8D025061	D122-01W	14:17	04/22/11	1.000
ID8D025062	Blank	14:20	04/22/11	1.000
ID8D025063	CCV5	14:23	04/22/11	1.000
ID8D025064	CCB5	14:28	04/22/11	1.000
ID8D025065	D122-02W	14:31	04/22/11	1.000
ID8D025066	D122-03W	14:34	04/22/11	1.000
ID8D025067	D122-05W	14:37	04/22/11	1.000
ID8D025068	D122-06W	14:40	04/22/11	1.000
ID8D025069	Blank	14:43	04/22/11	1.000
ID8D025070	CCV6	14:46	04/22/11	1.000
ID8D025071	CCB6	14:50	04/22/11	1.000
ID8D025072	IPD042WB	14:53	04/22/11	1.000
ID8D025073	IPD042WL	14:56	04/22/11	1.000
ID8D025074	IPD042WC	14:59	04/22/11	1.000
ID8D025075	D164-01A	15:01	04/22/11	1.000
ID8D025076	D164-01	15:04	04/22/11	1.000
ID8D025077	D164-01J	15:07	04/22/11	5.000
ID8D025078	D164-01M	15:10	04/22/11	1.000
ID8D025079	D164-01S	15:13	04/22/11	1.000
ID8D025080	D164-02	15:15	04/22/11	1.000
ID8D025081	Blank	15:18	04/22/11	1.000
ID8D025082	CCV7	15:21	04/22/11	1.000
ID8D025083	CCB7	15:24	04/22/11	1.000
ID8D025084	IPD043WB	15:27	04/22/11	1.000
ID8D025085	IPD043WL	15:29	04/22/11	1.000
ID8D025086	IPD043WC	15:32	04/22/11	1.000
ID8D025087	D164-03	15:35	04/22/11	1.000
ID8D025088	D164-04A	15:37	04/22/11	1.000
ID8D025089	D164-04	15:40	04/22/11	1.000
ID8D025090	D164-04J	15:43	04/22/11	5.000
ID8D025091	D164-05	15:46	04/22/11	1.000
ID8D025092	D164-06	15:48	04/22/11	1.000
ID8D025093	Blank	15:51	04/22/11	1.000
ID8D025094	CCV8	15:54	04/22/11	1.000
ID8D025095	CCB8	15:58	04/22/11	1.000
ID8D025096	IPD044WB	16:01	04/22/11	1.000
ID8D025097	IPD044WL	16:03	04/22/11	1.000
ID8D025098	IPD044WC	16:06	04/22/11	1.000
ID8D025099	WTD005SB	16:09	04/22/11	1.000
ID8D025100	C270-08A	16:12	04/22/11	1.000
ID8D025101	C270-08	16:14	04/22/11	1.000
ID8D025102	C270-08J	16:17	04/22/11	5.000
ID8D025103	C270-08M	16:20	04/22/11	1.000
ID8D025104	C270-08S	16:23	04/22/11	1.000
ID8D025105	Blank	16:26	04/22/11	1.000
ID8D025106	CCV9	16:29	04/22/11	1.000
ID8D025107	CCB9	16:32	04/22/11	1.000
ID8D025108	D212-01	16:35	04/22/11	1.000
ID8D025109	D212-02	16:37	04/22/11	1.000
ID8D025110	D212-03	16:40	04/22/11	1.000
ID8D025111	D212-04	16:43	04/22/11	1.000

ID8D025112	D212-05	16:46	04/22/11	1.000
ID8D025113	D212-06	16:49	04/22/11	1.000
ID8D025114	Blank	16:52	04/22/11	1.000
ID8D025115	CCV10	16:55	04/22/11	1.000
ID8D025116	CCB10	16:57	04/22/11	1.000
ID8D025117	D190-01	17:00	04/22/11	1.000
ID8D025118	D190-02	17:04	04/22/11	1.000
ID8D025119	D190-03	17:07	04/22/11	1.000
ID8D025120	D190-04	17:10	04/22/11	1.000
ID8D025121	D190-05	17:13	04/22/11	1.000
ID8D025122	D190-06	17:16	04/22/11	1.000
ID8D025123	D190-07	17:19	04/22/11	1.000
ID8D025124	D190-08	17:22	04/22/11	1.000
ID8D025125	Blank	17:25	04/22/11	1.000
ID8D025126	Blank	17:28	04/22/11	1.000
ID8D025127	CCV11	17:31	04/22/11	1.000
ID8D025128	CCB11	17:33	04/22/11	1.000
ID8D025129	D190-01	17:36	04/22/11	1.000
ID8D025130	D190-02	17:40	04/22/11	1.000
ID8D025131	D190-03	17:43	04/22/11	1.000
ID8D025132	D190-04	17:46	04/22/11	1.000
ID8D025133	D190-05	17:49	04/22/11	1.000
ID8D025134	D190-06	17:52	04/22/11	1.000
ID8D025135	D190-07	17:55	04/22/11	1.000
ID8D025136	D190-08	17:58	04/22/11	1.000
ID8D025137	Blank	18:01	04/22/11	1.000
ID8D025138	Blank	18:04	04/22/11	1.000
ID8D025139	CCV12	18:07	04/22/11	1.000
ID8D025140	CCB12	18:10	04/22/11	1.000
ID8D025141	D191-01	18:12	04/22/11	1.000
ID8D025142	D191-02	18:16	04/22/11	1.000
ID8D025143	D191-03	18:19	04/22/11	1.000
ID8D025144	D191-04	18:22	04/22/11	1.000
ID8D025145	D191-05	18:25	04/22/11	1.000
ID8D025146	D191-05M	18:28	04/22/11	1.000
ID8D025147	D191-05S	18:31	04/22/11	1.000
ID8D025148	Blank	18:34	04/22/11	1.000
ID8D025149	Blank	18:37	04/22/11	1.000
ID8D025150	CCV13	18:40	04/22/11	1.000
ID8D025151	CCB13	18:43	04/22/11	1.000
ID8D025152	D191-01	18:45	04/22/11	1.000
ID8D025153	D191-02	18:49	04/22/11	1.000
ID8D025154	D191-03	18:52	04/22/11	1.000
ID8D025155	D191-04	18:55	04/22/11	1.000
ID8D025156	D191-05	18:58	04/22/11	1.000
ID8D025157	D191-05M	19:01	04/22/11	1.000
ID8D025158	D191-05S	19:04	04/22/11	1.000
ID8D025159	Blank	19:07	04/22/11	1.000
ID8D025160	Blank	19:10	04/22/11	1.000
ID8D025161	CCV14	19:13	04/22/11	1.000
ID8D025162	CCB14	19:16	04/22/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8D025 DATE : 04/22/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	106	95	106	97	102	98	102	102	98	93	102	101	96	105	96	94	98	97	96	105	101	103	97	96	94	98	99	104
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2201	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2202	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	102	----	----	----	----	----	----	98	----	----	----	98	----	----	99	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	103	103	110	107	101	98	100	98	97	95	111	97	95	113	97	94	104	98	104	109	111	110	99	87	96	99	99	105
CCV1	106	100	107	100	101	97	101	103	99	97	104	99	96	106	95	95	101	98	95	104	101	104	100	94	99	99	98	104
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTD004SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	107	101	108	101	103	98	103	105	101	97	105	100	96	107	97	97	102	98	96	106	103	104	101	96	98	100	99	105
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-17T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-18T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	107	101	107	100	102	97	101	103	100	97	103	100	96	105	97	95	102	98	96	104	101	104	99	95	99	99	99	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-13T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-15T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-16T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	105	100	106	101	102	98	100	104	100	97	104	99	97	107	95	96	102	99	97	104	102	105	101	93	99	99	98	105
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPD034WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	107	99	107	101	102	98	101	104	101	97	105	100	97	107	96	96	102	99	97	104	102	105	100	95	99	100	99	105
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	105	101	107	101	102	98	100	104	99	98	104	99	96	107	95	95	102	99	97	105	102	105	101	94	99	99	97	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD042WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD042WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD042WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	108	102	109	102	102	99	103	105	101	98	107	99	96	107	96	96	102	99	97	107	103	105	101	96	98	100	98	104
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD043WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD043WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD043WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	108	100	109	101	103	98	104	107	102	97	105	100	96	107	97	97	101	98	97	105	103	105	101	97	98	99	98	104
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTD005SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	110	101	109	103	104	100	104	108	103	98	108	101	96	108	97	97	102	99	98	107	105	108	103	97	97	100	99	105
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D212-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	109	100	110	102	104	100	105	108	103	98	108	100	96	108	97	97	101	99	98	107	105	106	102	97	96	100	99	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	110	101	110	103	104	107	105	108	104	98	108	101	96	109	97	97	101	99	99	107	105	107	103	97	96	100	99	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	110	101	109	103	103	107	104	108	103	98	108	100	96	110	96	96	102	99	100	107	105	108	103	97	97	100	99	104
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	110	101	109	103	103	109	104	107	103	98	108	100	96	110	96	96	102	99	100	107	104	107	103	97	97	100	99	104
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	106	100	107	102	102	110	102	106	102	97	104	100	96	109	95	95	101	98	100	105	103	107	102	94	98	99	98	105
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8D025 (SOIL) DATE : 04/22/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	21.6	1.24	-.110	.460	.160	5.89	.170	10.4	.410	.150	.420	5.95	-.130	-.370	14.2	.460	.800	.100	71.4	.110	.210	39.1	.080	.530	-.170	-.250	.430	-.200
MRLD2201	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2202	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	5.27	-1.86	1.82	.000	-11.3	.200	----	.160	-.070	1.37	----	9.03	5.78	----	2.24	-1.23	.170	-22.5	.680	.390	136	1.24	-1.19	1.41	3.71	-.010	2.80
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	54.0	1.54	-.500	.630	.310	7.49	.520	60.6	.960	.270	.920	12.0	.400	.350	21.9	.740	1.13	.480	115	.220	.260	68.3	.230	.550	.060	-.190	.710	1.99
WTD004SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	48.0	.900	-.580	1.69	1.10	5.76	.220	62.0	.780	.070	.890	7.44	.300	.480	42.9	1.88	.760	.190	103	-1.00	.260	74.9	.380	.040	.060	.500	.610	.020
D479-17T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-18T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-05T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-07T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	44.2	1.42	1.57	.560	.170	5.33	.460	13.3	.800	.180	.930	4.99	.890	-.010	18.3	.500	1.09	.390	58.6	.710	.350	23.5	.060	.220	.250	.490	.720	.490
D465-10T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-11T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-13T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-15T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-16T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	13.6	1.01	.270	.270	.090	5.57	.090	1.000	.110	-.030	.060	1.43	.490	-.880	12.0	.320	.540	.040	35.6	-.370	.150	11.7	.020	-.540	-.120	.040	.370	-.390
IPD034WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPD034WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	12.3	-.170	1.34	.220	-.010	3.10	.000	-1.40	.040	-.010	.110	-4.31	.130	-1.46	5.09	.010	.210	-.170	48.0	.580	.070	36.6	-.010	.030	.050	.090	.220	-.650
D122-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	11.1	.290	.420	.260	-.010	4.29	.050	-.570	.170	.040	.140	-2.31	.010	-.280	2.04	.180	.280	-.180	60.7	-.080	.040	68.9	.100	.350	.080	-.270	.260	-.720
IPD042WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD042WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD042WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	50.4	1.69	1.71	.520	.250	6.13	.530	9.64	.920	.200	.890	7.12	.730	-.830	1.21	.550	1.16	.380	95.8	-.190	.340	87.0	.070	.470	-.280	.210	.510	-.220
IPD043WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD043WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD043WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D164-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	35.2	1.64	.280	.420	.070	4.56	.320	1.66	.400	.140	.490	2.63	.770	-.930	7.19	.280	.680	.150	52.3	.050	.240	47.6	.040	.720	.210	-.230	.280	-.330
IPD044WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD044WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD044WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTD005SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
C270-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	26.8	1.84	-.140	.850	.510	4.32	.180	19.6	.370	.130	.380	-.850	.300	.010	25.4	1.18	.650	.060	241	.160	.150	741	.120	.070	-.360	.280	.350	-.690
D212-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D212-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D212-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	43.5	1.58	-1.51	1.27	.810	4.61	.250	44.8	.740	.150	.930	4.71	.550	.230	49.3	1.50	.890	.030	149	-.710	.230	345	.280	.150	.300	.240	.430	-.390
D190-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	25.4	1.50	.520	.410	.100	141	.140	-2.82	.180	.070	.420	-2.24	.460	-.930	2.23	.110	.620	-.030	124	.240	.110	185	.050	.090	.310	.090	.340	-.760
D190-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D190-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	29.3	1.25	.250	.560	.230	152	.090	5.39	.460	.170	.560	-1.84	.200	-.750	6.69	.600	.650	-.110	111	-.200	.060	171	.120	-.090	.120	-.150	.280	-.780
D191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	22.7	1.52	-.100	.370	.100	180	.150	-4.75	.130	.080	.340	-2.19	.150	-.250	6.86	.330	.650	-.220	208	.240	.150	171	.050	-.090	-.070	-.020	.250	-.780
D191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D191-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	17.8	1.86	-.670	.680	.250	207	.210	6.00	.130	.030	.290	-.940	.180	.050	21.5	.590	.770	.180	270	.070	.220	200	.080	.620	-.350	.260	.120	-.690

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8D025001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8D025002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8D025003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8D025004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8D025005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8D025006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8D025007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8D025008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8D025009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8D025010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8D025011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8D025012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8D025013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8D025014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8D025015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLD2201		ID8D025016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLD2202		ID8D025017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8D025018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8D025019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8D025020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8D025021			1	☒	3XIDL	None
22	9	2	9	1	QC	WTD004SQ	5X STLC	ID8D025022			1	☒	1/2LOQ	None
23	10	2	10	1	Unk	D182-10A	10X	ID8D025023			1	☒	unk	---
24	11	2	11	1	Unk	D182-10T	10X	ID8D025024			1	☒	unk	---
25	12	2	12	1	Unk	D182-10J	50X	ID8D025025			1	☒	unk	---
26	13	2	1	2	Unk	D182-10G	10X	ID8D025026			1	☒	unk	---
27	14	2	2	2	Unk	D182-10H	10X	ID8D025027			1	☒	unk	---
28	15	2	3	2	Unk	D182-06T	10X	ID8D025028			1	☒	unk	---
29	16	2	4	2	Unk	D182-07T	10X	ID8D025029			1	☒	unk	---
30	17	2	5	2	Blank	Blank		ID8D025030			1	☐		---
31	18	2	6	2	QC	CCV2		ID8D025031			1	☒	CCV	None
32	19	2	7	2	QC	CCB2		ID8D025032			1	☒	3XIDL	None
33	20	2	8	2	Unk	D479-17T	5X	ID8D025033			1	☒	unk	---
34	21	2	9	2	Unk	D479-18T	5X	ID8D025034			1	☒	unk	---
35	22	2	10	2	Unk	D465-01A	5X	ID8D025035			1	☒	unk	---
36	23	2	11	2	Unk	D465-01T	5X	ID8D025036			1	☒	unk	---
37	24	2	12	2	Unk	D465-01J	25X	ID8D025037			1	☒	unk	---
38	25	2	1	3	Unk	D465-01G	5X	ID8D025038			1	☒	unk	---
39	26	2	2	3	Unk	D465-01H	5X	ID8D025039			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	Unk	D465-05T	5X	ID8D025040			1	☒	unk	---
41	28	2	4	3	Unk	D465-07T	5X	ID8D025041			1	☒	unk	---
42	29	2	5	3	Blank	Blank		ID8D025042			1	☐		---
43	30	2	6	3	QC	CCV3		ID8D025043			1	☒	CCV	None
44	31	2	7	3	QC	CCB3		ID8D025044			1	☒	3XIDL	None
45	32	2	8	3	Unk	D465-10T	5X	ID8D025045			1	☒	unk	---
46	33	2	9	3	Unk	D465-11T	5X	ID8D025046			1	☒	unk	---
47	34	2	10	3	Unk	D465-13T	5X	ID8D025047			1	☒	unk	---
48	35	2	11	3	Unk	D465-15T	5X	ID8D025048			1	☒	unk	---
49	36	2	12	3	Unk	D465-16T	5X	ID8D025049			1	☒	unk	---
50	37	2	1	4	Blank	Blank		ID8D025050			1	☐		---
51	38	2	2	4	QC	CCV4		ID8D025051			1	☒	CCV	None
52	39	2	3	4	QC	CCB4		ID8D025052			1	☒	3XIDL	None
53	40	2	4	4	QC	IPD034WQ		ID8D025053			1	☒	1/2LOQ	None
54	41	2	5	4	QC	IPD034WX		ID8D025054			1	☒	LCS	None
55	42	2	6	4	QC	IPD034WY		ID8D025055			1	☒	LCS	None
56	43	2	7	4	Unk	D122-04A		ID8D025056			1	☒	unk	---
57	44	2	8	4	Unk	D122-04W		ID8D025057			1	☒	unk	---
58	45	2	9	4	Unk	D122-04J		ID8D025058			1	☒	unk	---
59	46	2	10	4	Unk	D122-04G		ID8D025059			1	☒	unk	---
60	47	2	11	4	Unk	D122-04H		ID8D025060			1	☒	unk	---
61	48	2	12	4	Unk	D122-01W		ID8D025061			1	☒	unk	---
62	49	2	1	5	Blank	Blank		ID8D025062			1	☐		---
63	50	2	2	5	QC	CCV5		ID8D025063			1	☒	CCV	None
64	51	2	3	5	QC	CCB5		ID8D025064			1	☒	LOD	None
65	52	2	4	5	Unk	D122-02W		ID8D025065			1	☒	unk	---
66	53	2	5	5	Unk	D122-03W		ID8D025066			1	☒	unk	---
67	54	2	6	5	Unk	D122-05W		ID8D025067			1	☒	unk	---
68	55	2	7	5	Unk	D122-06W		ID8D025068			1	☒	unk	---
69	56	2	8	5	Blank	Blank		ID8D025069			1	☐		---
70	57	2	9	5	QC	CCV6		ID8D025070			1	☒	CCV	None
71	58	2	10	5	QC	CCB6		ID8D025071			1	☒	LOD	None
72	59	2	11	5	QC	IPD042WB		ID8D025072			1	☒	1/2LOQ	None
73	60	2	12	5	QC	IPD042WL		ID8D025073			1	☒	LCS	None
74	61	3	1	1	QC	IPD042WC		ID8D025074			1	☒	LCS	None
75	62	3	2	1	Unk	D164-01A		ID8D025075			1	☒	unk	---
76	63	3	3	1	Unk	D164-01		ID8D025076			1	☒	unk	---
77	64	3	4	1	Unk	D164-01J		ID8D025077			1	☒	unk	---
78	65	3	5	1	Unk	D164-01M		ID8D025078			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	66	3	6	1	Unk	D164-01S		ID8D025079			1	☒	unk	---
80	67	3	7	1	Unk	D164-02		ID8D025080			1	☒	unk	---
81	68	3	8	1	Blank	Blank		ID8D025081			1	☐		---
82	69	3	9	1	QC	CCV7		ID8D025082			1	☒	CCV	None
83	70	3	10	1	QC	CCB7		ID8D025083			1	☒	3XIDL	None
84	71	3	11	1	QC	IPD043WB		ID8D025084			1	☒	1/2LOQ	None
85	72	3	12	1	QC	IPD043WL		ID8D025085			1	☒	LCS	None
86	73	3	1	2	QC	IPD043WC		ID8D025086			1	☒	LCS	None
87	74	3	2	2	Unk	D164-03		ID8D025087			1	☒	unk	---
88	75	3	3	2	Unk	D164-04A		ID8D025088			1	☒	unk	---
89	76	3	4	2	Unk	D164-04		ID8D025089			1	☒	unk	---
90	77	3	5	2	Unk	D164-04J		ID8D025090			1	☒	unk	---
91	78	3	6	2	Unk	D164-05		ID8D025091			1	☒	unk	---
92	79	3	7	2	Unk	D164-06		ID8D025092			1	☒	unk	---
93	80	3	8	2	Blank	Blank		ID8D025093			1	☐		---
94	81	3	9	2	QC	CCV8		ID8D025094			1	☒	CCV	None
95	82	3	10	2	QC	CCB8		ID8D025095			1	☒	3XIDL	None
96	138	4	6	2	QC	IPD044WB		ID8D025096			1	☒	1/2LOQ	None
97	139	4	7	2	QC	IPD044WL		ID8D025097			1	☒	LCS	None
98	140	4	8	2	QC	IPD044WC		ID8D025098			1	☒	LCS	None
99	141	4	9	2	QC	WTD005SB	STLC	ID8D025099			1	☒	1/2LOQ	None
100	142	4	10	2	Unk	C270-08A	STLC	ID8D025100			1	☒	unk	---
101	143	4	11	2	Unk	C270-08	STLC	ID8D025101			1	☒	unk	---
102	144	4	12	2	Unk	C270-08J	STLC	ID8D025102			1	☒	unk	---
103	145	4	1	3	Unk	C270-08M	STLC	ID8D025103			1	☒	unk	---
104	146	4	2	3	Unk	C270-08S	STLC	ID8D025104			1	☒	unk	---
105	147	4	3	3	Blank	Blank		ID8D025105			1	☐		---
106	148	4	4	3	QC	CCV9		ID8D025106			1	☒	CCV	None
107	149	4	5	3	QC	CCB9		ID8D025107			1	☒	3XIDL	None
108	83	3	11	2	Unk	D212-01		ID8D025108			1	☒	unk	---
109	84	3	12	2	Unk	D212-02		ID8D025109			1	☒	unk	---
110	85	3	1	3	Unk	D212-03		ID8D025110			1	☒	unk	---
111	86	3	2	3	Unk	D212-04		ID8D025111			1	☒	unk	---
112	87	3	3	3	Unk	D212-05		ID8D025112			1	☒	unk	---
113	88	3	4	3	Unk	D212-06		ID8D025113			1	☒	unk	---
114	89	3	5	3	Blank	Blank		ID8D025114			1	☐		---
115	90	3	6	3	QC	CCV10		ID8D025115			1	☒	CCV	None
116	91	3	7	3	QC	CCB10		ID8D025116			1	☒	3XIDL	None
117	92	3	8	3	Unk	D190-01	TOT	ID8D025117			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	93	3	9	3	Unk	D190-02	TOT	ID8D025118			1	☒	unk	---
119	94	3	10	3	Unk	D190-03	TOT	ID8D025119			1	☒	unk	---
120	95	3	11	3	Unk	D190-04	TOT	ID8D025120			1	☒	unk	---
121	96	3	12	3	Unk	D190-05	TOT	ID8D025121			1	☒	unk	---
122	97	3	1	4	Unk	D190-06	TOT	ID8D025122			1	☒	unk	---
123	98	3	2	4	Unk	D190-07	TOT	ID8D025123			1	☒	unk	---
124	99	3	3	4	Unk	D190-08	TOT	ID8D025124			1	☒	unk	---
125	100	3	4	4	Blank	Blank		ID8D025125			1	☐		---
126	101	3	5	4	Blank	Blank		ID8D025126			1	☐		---
127	102	3	6	4	QC	CCV11		ID8D025127			1	☒	CCV	None
128	103	3	7	4	QC	CCB11		ID8D025128			1	☒	3XIDL	None
129	104	3	8	4	Unk	D190-01	DISS	ID8D025129			1	☒	unk	---
130	105	3	9	4	Unk	D190-02	DISS	ID8D025130			1	☒	unk	---
131	106	3	10	4	Unk	D190-03	DISS	ID8D025131			1	☒	unk	---
132	107	3	11	4	Unk	D190-04	DISS	ID8D025132			1	☒	unk	---
133	108	3	12	4	Unk	D190-05	DISS	ID8D025133			1	☒	unk	---
134	109	3	1	5	Unk	D190-06	DISS	ID8D025134			1	☒	unk	---
135	110	3	2	5	Unk	D190-07	DISS	ID8D025135			1	☒	unk	---
136	111	3	3	5	Unk	D190-08	DISS	ID8D025136			1	☒	unk	---
137	112	3	4	5	Blank	Blank		ID8D025137			1	☐		---
138	113	3	5	5	Blank	Blank		ID8D025138			1	☐		---
139	114	3	6	5	QC	CCV12		ID8D025139			1	☒	CCV	None
140	115	3	7	5	QC	CCB12		ID8D025140			1	☒	3XIDL	None
141	116	3	8	5	Unk	D191-01	TOT	ID8D025141			1	☒	unk	---
142	117	3	9	5	Unk	D191-02	TOT	ID8D025142			1	☒	unk	---
143	118	3	10	5	Unk	D191-03	TOT	ID8D025143			1	☒	unk	---
144	119	3	11	5	Unk	D191-04	TOT	ID8D025144			1	☒	unk	---
145	120	3	12	5	Unk	D191-05	TOT	ID8D025145			1	☒	unk	---
146	121	4	1	1	Unk	D191-05M	TOT	ID8D025146			1	☒	unk	---
147	122	4	2	1	Unk	D191-05S	TOT	ID8D025147			1	☒	unk	---
148	123	4	3	1	Blank	Blank		ID8D025148			1	☐		---
149	124	4	4	1	Blank	Blank		ID8D025149			1	☐		---
150	125	4	5	1	QC	CCV13		ID8D025150			1	☒	CCV	None
151	126	4	6	1	QC	CCB13		ID8D025151			1	☒	3XIDL	None
152	127	4	7	1	Unk	D191-01	DISS	ID8D025152			1	☒	unk	---
153	128	4	8	1	Unk	D191-02	DISS	ID8D025153			1	☒	unk	---
154	129	4	9	1	Unk	D191-03	DISS	ID8D025154			1	☒	unk	---
155	130	4	10	1	Unk	D191-04	DISS	ID8D025155			1	☒	unk	---
156	131	4	11	1	Unk	D191-05	DISS	ID8D025156			1	☒	unk	---

7057

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	132	4	12	1	Unk	D191-05M	DISS	ID8D025157			1	☒	unk	---
158	133	4	1	2	Unk	D191-05S	DISS	ID8D025158			1	☒	unk	---
159	134	4	2	2	Blank	Blank		ID8D025159			1	☐		---
160	135	4	3	2	Blank	Blank		ID8D025160			1	☐		---
161	136	4	4	2	QC	CCV14		ID8D025161			1	☒	CCV	None
162	137	4	5	2	QC	CCB14		ID8D025162			1	☒	3XIDL	None

7058

ID8D025 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00110	.00002	-.00001	.00021	.00007	.00011	-.00005	.00055	-.00002	-.00096	Blank
2	S20					.86593		.12258				S20
3	S21					8.5240		1.1941				S21
4	S22				.48261						.15761	S22
5	S23				4.7465						1.6210	S23
6	S24						.09521					S24
7	S25						.98580					S25
8	S26	.25842							.96000	.14073		S26
9	S27	9.2499							8.5896	1.3341		S27
10	S28		.00556									S28
11	S29		.05452									S29
12	S30			.00132								S30
13	S31			.00528								S31
14	ICV	105.71	1.4292	1.0578	1.9489	1.5328	2.4441	2.0495	76.757	2.4536	.93228	ICV
15	ICB	.02163	.00124	-.00011	.00046	.00016	.00589	.00017	.01043	.00041	.00015	ICB
16	MRLD2201	.23685	.10070	.01055	.01139	.01038	.01469*	.01097	1.1493	.01085	.00950	MRLD2201
17	MRLD2202	.23211	.04765	.01075	.00522	.00416	.09758	.00538	.51543	.01040	.00929	MRLD2202
18	ICSA1	407.82	.00527	-.00186	.00182	.00000	-.01134	.00020	492.21	.00016	-.00007	ICSA1
19	ICSAB1	410.41	1.0280	1.0984	.53310	.50591	.49201	.99533	488.37	.48722	.47495	ICSAB1
20	CCV1	105.94	1.5014	1.0675	1.9969	1.5156	2.4343	2.0116	76.899	2.4871	.96710	CCV1
21	CCB1	.05404*	.00154	-.00050	.00063	.00031*	.00749*	.00052*	.06062	.00096	.00027	CCB1
22	WTD004SQ	.03372	-.00044	-.00109	.11735*	-.00001	.03738	.00000	.04705	.00127	-.00013	WTD004SQ
23	D182-10A	12.793	2.4916	.47468	.51929	.44973	.51345	.48526	57.725	.46110	.42053	D182-10A
24	D182-10T	7.8451	.00236	.00637	.08898	.00069	.00305	.02787	5.5441	.01848	.00414	D182-10T
25	D182-10J	1.5797	-.00008	.00119	.01779	.00011	.00167	.00558	1.1204	.00354	.00069	D182-10J
26	D182-10G	12.543	.19617	.05792	.15205	.05428	.04740	.08346	11.038	.07613	.05319	D182-10G
27	D182-10H	13.457	.19587	.05800	.16217	.05299	.04661	.08400	12.243	.07638	.05263	D182-10H
28	D182-06T	4.7204	.00373	.00510	.04833	.00034	.00161	.03816	9.7502	.00832	.00253	D182-06T
29	D182-07T	7.3182	.00230	.00579	.08247	.00049	.00104	.04311	8.9412	.01178	.00344	D182-07T
30	Blank	.01068	-.00006	.00094	.00017	-.00001	.00020	-.00005	.00297	-.00001	.00006	Blank
31	CCV2	107.28	1.5169	1.0849	2.0245	1.5421	2.4519	2.0552	78.730	2.5218	.97362	CCV2
32	CCB2	.04803*	.00090	-.00058	.00169	.00110*	.00576	.00022	.06198	.00078	.00007	CCB2
33	D479-17T	19.921	-.00086	.00108	.02143	.00018	.03269	.00018	238.97	.00843	.07031	D479-17T
34	D479-18T	12.734	-.00118	-.00159	.02671	.00014	.03105	.00016	280.59	.00443	.09444	D479-18T
35	D465-01A	23.933	2.4664	.54946	.65961	.52646	.53479	.51007	312.42	.52575	.49026	D465-01A
36	D465-01T	18.421	.00614	-.00182	.15132	.00025	.01521	.00046	271.48	.01795	.00158	D465-01T
37	D465-01J	3.4690	.00103	.00013	.02941	.00003	.00354	.00006	54.803	.00378	.00028	D465-01J
38	D465-01G	24.403	.39700	.04021	.30198	.10235	.12007	.09879	366.65	.12196	.09677	D465-01G
39	D465-01H	24.156	.38973	.04349	.29391	.10382	.11910	.10082	356.75	.12402	.09885	D465-01H
40	D465-05T	12.642	.00986	.00816	.04668	.00017	.10147	.01668	458.44	.04504	.00426	D465-05T
41	D465-07T	23.875	.00162	-.00031	.14822	.00023	.03046	.00300	455.79	.03997	.00711	D465-07T
42	Blank	.00990	.00043	-.00048	.00020	-.00005	.00055	-.00002	.02963	.00002	-.00007	Blank
43	CCV3	107.12	1.5078	1.0687	2.0010	1.5310	2.4305	2.0275	77.504	2.5033	.97155	CCV3
44	CCB3	.04419*	.00142	.00157	.00056	.00017	.00533	.00046	.01326	.00080	.00018	CCB3
45	D465-10T	21.154	.00259	.00016	.17614	.00024	.03707	.00043	268.10	.03274	.00159	D465-10T
46	D465-11T	24.326	.00050	-.00113	.19817	.00026	.02002	.00042	384.18	.02927	.00283	D465-11T
47	D465-13T	21.611	.00624	.00085	.10148	.00018	.01285	.00065	242.89	.03622	.00241	D465-13T
48	D465-15T	21.960	.00102	.00121	.91309	.00024	.23555	.00057	458.22	.03523	.00372	D465-15T
49	D465-16T	22.704	.00289	.00265	1.1193	.00016	.01604	.00138	295.18	.05657	.00173	D465-16T
50	Blank	.01190	-.00030	.00097	.00021	.00000	.00063	-.00002	.03930	.00005	.00000	Blank
51	CCV4	105.27	1.5029	1.0634	2.0120	1.5233	2.4413	2.0014	77.867	2.4955	.97373	CCV4
52	CCB4	.01358	.00101	.00027	.00027	.00009	.00557	.00009	.00100	.00011	-.00003	CCB4
53	IPD034WQ	.00999	.00025	-.00029	.00007	-.00005	.00116	-.00005	-.01924	.00011	.00009	IPD034WQ
54	IPD034WX	5.6693	2.4990	.54785	.50613	.52532	.50690	.53413	51.168	.51516	.47957	IPD034WX

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55	IPD034WY	5.6388	2.5219	.54930	.50593	.52497	.51004	.53759	51.613	.51692	.48108	IPD034WY
56	D122-04A	6.2723	2.5737	.67226	.81924	.53558	.80828	.53005	228.63	.52103	.49392	D122-04A
57	D122-04W	.31392	.00167	.09071	.30588	.00001	.27729	-.00009	184.16	.00152	-.00032	D122-04W
58	D122-04J	.08692	.00135	.01772	.06166	-.00001	.05425	-.00003	38.349	.00060	-.00019	D122-04J
59	D122-04G	6.0070	2.5382	.64322	.80981	.51720	.79723	.50954	233.36	.50612	.47725	D122-04G
60	D122-04H	6.0937	2.5539	.64178	.80072	.51441	.79723	.50631	231.48	.50311	.47615	D122-04H
61	D122-01W	.17027	.00224	.09023	.40939	.00002	.28327	.00003	192.16	.00125	-.00038	D122-01W
62	Blank	.00958	.00086	.00094	.00031	-.00002	.00167	.00001	.03647	.00005	-.00001	Blank
63	CCV5	107.41	1.4920	1.0670	2.0146	1.5323	2.4481	2.0182	77.953	2.5150	.97500	CCV5
64	CCB5	.01225	-.00017	.00134	.00022	-.00001	.00310	.00000	-.00140	.00004	-.00001	CCB5
65	D122-02W	.02848	.00005	.03214	.62268	-.00004	.26982	-.00013	401.47	.00101	.00124	D122-02W
66	D122-03W	.02884	-.00023	.07555	.42419	-.00004	.23167	-.00006	210.35	.00131	-.00048	D122-03W
67	D122-05W	.02733	-.00079	.07531	.54575	-.00006	.31324	-.00008	176.76	.00117	-.00031	D122-05W
68	D122-06W	.17535	-.00049	.08789	.41492	-.00005	.28121	-.00013	192.18	.00116	-.00023	D122-06W
69	Blank	.00916	-.00009	-.00114	.00021	-.00001	.00176	-.00004	.02630	.00002	-.00008	Blank
70	CCV6	105.37	1.5090	1.0679	2.0212	1.5231	2.4449	2.0027	77.632	2.4868	.97551	CCV6
71	CCB6	.01108	.00029	.00042	.00026	-.00001	.00429	.00005	-.00057	.00017	.00004	CCB6
72	IPD042WB	.01200	-.00044	-.00062	.00012	.00001	.00311	.00001	.02206	.00009	.00002	IPD042WB
73	IPD042WL	5.4640	2.4737	.53246	.49926	.51716	.50976	.52422	51.520	.51081	.47748	IPD042WL
74	IPD042WC	5.5515	2.4758	.54004	.50466	.52524	.51377	.52938	52.146	.51856	.48265	IPD042WC
75	D164-01A	5.8607	2.5036	.56645	.71247	.53152	.57367	.52440	141.69	.52322	.50070	D164-01A
76	D164-01	.03251	.00275	.00872	.20539	.00005	.03751	.00006	96.262	.00287	.00980	D164-01
77	D164-01J	.01752	.00015	.00308	.04183	.00000	.00798	.00000	19.791	.00074	.00198	D164-01J
78	D164-01M	5.8729	2.4987	.56289	.71438	.52739	.56528	.52008	145.08	.51859	.49154	D164-01M
79	D164-01S	5.9826	2.5381	.57283	.73500	.53953	.57591	.52755	149.32	.53042	.50388	D164-01S
80	D164-02	.02738	.00220	-.00002	.06795	.00001	.03406	.00007	26.583	.00413	-.00018	D164-02
81	Blank	.01272	.00047	.00028	.00016	-.00002	.00085	-.00001	-.00310	.00006	.00009	Blank
82	CCV7	107.79	1.5253	1.0930	2.0401	1.5352	2.4706	2.0602	78.638	2.5303	.97794	CCV7
83	CCB7	.05041*	.00169	.00171	.00052	.00025	.00613	.00053*	.00964	.00092	.00020	CCB7
84	IPD043WB	.01460	-.00004	.00033	.00022	.00012	.00310	-.00001	.00506	.00011	.00020	IPD043WB
85	IPD043WL	5.7735	2.5073	.55465	.51745	.53800	.52465	.54849	53.880	.53526	.49267	IPD043WL
86	IPD043WC	5.7465	2.4846	.54865	.51270	.53301	.52187	.54704	53.427	.53142	.48588	IPD043WC
87	D164-03	.03553	.00282	.00094	.07608	.00008	.02892	.00009	39.823	.00303	.00627	D164-03
88	D164-04A	5.9197	2.5117	.57011	.59218	.54156	.56115	.54819	80.219	.53610	.49433	D164-04A
89	D164-04	.02775	.00223	-.00073	.07191	.00005	.03130	.00006	27.543	.00372	.00155	D164-04
90	D164-04J	.01655	.00133	-.00020	.01481	.00000	.00671	-.00002	5.6937	.00082	.00034	D164-04J
91	D164-05	.08360	.00047	.00141	.15248	-.00001	.03036	-.00001	69.311	.00179	.00766	D164-05
92	D164-06	.02452	.00052	-.00018	.04517	.00000	.02709	-.00001	23.590	.00266	.00256	D164-06
93	Blank	.01301	.00079	-.00026	.00008	-.00003	.00066	-.00001	-.00408	-.00005	-.00009	Blank
94	CCV8	107.72	1.5063	1.0853	2.0227	1.5384	2.4597	2.0764	79.995	2.5446	.97353	CCV8
95	CCB8	.03517	.00164	.00028	.00042	.00007	.00456	.00032	.00166	.00040	.00014	CCB8
96	IPD044WB	.01383	.00059	-.00172	.00008	-.00003	.00272	.00007	-.01684	.00010	.00006	IPD044WB
97	IPD044WL	6.0202*	2.5862	.57387	.53673	.55652	.54165	.56599	52.752	.54948	.50346	IPD044WL
98	IPD044WC	6.0890*	2.4973	.57978	.54373	.56154	.52364	.56895	53.638	.55417	.51041	IPD044WC
99	WTD005SB	.03787	-.00230	.00188	.00148	.00018	.00718	-.00009	.04418	.00593*	.00017	WTD005SB
100	C270-08A	11.686	2.7480	.75247	1.0195	.50752	.75639	.53576	218.65	.61000	.51190	C270-08A
101	C270-08	5.8601	.02477	.08713	.50770	.00163	.19015	.02387	168.04	.08877	.02614	C270-08
102	C270-08J	1.1340	.00383	.01484	.09952	.00031	.03685	.00483	35.423	.01844	.00504	C270-08J
103	C270-08M	12.032	2.7926	.76872	1.0445	.52583	.76634	.55946	223.02	.63653	.52604	C270-08M
104	C270-08S	12.313	2.8599	.79049	1.0574	.53821	.78319	.57732	227.54	.65268	.54068	C270-08S
105	Blank	.01741	.00057	.00043	.00050	.00003	.00118	.00008	.08450	.00011	.00012	Blank
106	CCV9	109.89	1.5082	1.0927	2.0552	1.5534	2.4887	2.0785	80.854	2.5644	.98079	CCV9
107	CCB9	.02683	.00184	-.00014	.00085	.00051*	.00432	.00018	.01960	.00037	.00013	CCB9
108	D212-01	.03306	-.00055	-.00027	.01196	-.00008	.01122	.00766	547.62	.00058	.00425	D212-01
109	D212-02	.02849	.00034	-.00049	.01179	-.00013	.01408	.00726	547.84	.00069	.00427	D212-02
110	D212-03	.03050	.00082	-.00065	.02606	-.00006	.02163	.00913	303.87	.00069	.00002	D212-03
111	D212-04	.02912	.00039	-.00071	.02498	-.00005	.01829	.00692	301.10	.00045	.00003	D212-04

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
112	D212-05	.02861	.00082	-.00124	.01820	-.00010	.01845	.05901	424.14	.00064	.00029	D212-05
113	D212-06	.02973	.00060	-.00150	.01868	-.00007	.01903	.06083	433.68	.00074	.00035	D212-06
114	Blank	.01661	.00077	.00056	.00028	-.00002	.00020	.00005	.12180	.00017	-.00002	Blank
115	CCV10	109.27	1.5058	1.0967	2.0499	1.5536	2.4946	2.1034	80.954	2.5755	.97757	CCV10
116	CCB10	.04346*	.00158	-.00151	.00127	.00081*	.00461	.00025	.04475	.00074	.00015	CCB10
117	D190-01	.03964	.00096	.02325	.18117	.00000	142.38*	-.00071	153.54	.00354	.00007	D190-01
118	D190-02	.04114	.00016	.02450	.18323	.00000	144.65*	-.00072	155.84	.00341	.00001	D190-02
119	D190-03	.03837	.00022	.08523	.19579	.00006	93.877*	-.00059	251.84	.01232	-.00001	D190-03
120	D190-04	.04456	.00140	.03540	.10323	-.00002	278.58*	-.00163	95.882	.00353	-.00003	D190-04
121	D190-05	.07441	-.00049	.00202	.05873	.00002	151.78*	-.00071	46.012	.00754	-.00024	D190-05
122	D190-06	.05337	-.00130	.44206	.16095	-.00003	80.405*	-.00050	207.69	.00249	-.00014	D190-06
123	D190-07	.04057	-.00007	.00390	.23235	-.00002	20.327*	-.00021	195.50	.00363	.00010	D190-07
124	D190-08	.02052	-.00100	.00169	.00039	-.00004	.34033	-.00002	.03381	.00006	-.00003	D190-08
125	Blank	.01837	.00028	-.00043	.00035	.00000	.22776	-.00003	.05445	-.00001	-.00004	Blank
126	Blank	.01717	-.00003	-.00053	.00037	.00001	.18101	-.00002	.06128	.00010	.00005	Blank
127	CCV11	109.92	1.5097	1.0951	2.0633	1.5573	2.6736	2.1007	81.324	2.5908	.97946	CCV11
128	CCB11	.02535	.00150	.00052	.00041	.00010	.14067*	.00014	-.00282	.00018	.00007	CCB11
129	D190-01	.03973	.00068	.02567	.18117	.00001	142.11*	-.00068	155.62	.00349	-.00003	D190-01
130	D190-02	.03780	.00146	.02431	.18138	-.00002	142.73*	-.00066	154.55	.00343	-.00008	D190-02
131	D190-03	.03403	-.00022	.08407	.12876	.00000	93.505*	-.00051	250.09	.01183	.00004	D190-03
132	D190-04	.03469	.00004	.03889	.10246	-.00001	272.02*	-.00159	93.597	.00378	-.00001	D190-04
133	D190-05	.07389	-.00018	.00476	.05875	.00003	149.28*	-.00069	45.154	.00832	-.00013	D190-05
134	D190-06	.03235	-.00112	.36228	.12903	-.00004	75.265*	-.00049	192.86	.00275	-.00020	D190-06
135	D190-07	.02884	-.00043	.00300	.21865	-.00003	19.778*	-.00019	190.12	.00333	.00009	D190-07
136	D190-08	.01386	.00007	.00072	.00029	-.00002	.38486	-.00005	.05286	-.00001	-.00005	D190-08
137	Blank	.01616	-.00029	-.00043	.00039	.00002	.25608	.00002	.07942	-.00003	.00012	Blank
138	Blank	.01771	-.00009	-.00069	.00042	.00002	.20390	.00001	.08583	.00019	.00000	Blank
139	CCV12	109.79	1.5141	1.0947	2.0644	1.5516	2.6866	2.0807	80.711	2.5741	.98216	CCV12
140	CCB12	.02927	.00125	.00025	.00056	.00023	.15152*	.00009	.00539	.00046	.00017	CCB12
141	D191-01	.04715	.00061	.00413	.13895	-.00003	61.306*	-.00039	205.92	.00323	-.00010	D191-01
142	D191-02	.03954	.01709	.01853	.04911	-.00003	290.14*	-.00170	160.14	.00210	-.00010	D191-02
143	D191-03	.03701	.00774	.12581	.04574	.00001	292.21*	-.00174	61.962	.00188	-.00009	D191-03
144	D191-04	.07768	-.00053	.01214	.14079	.00000	8.3882	-.00012	153.94	.00235	-.00016	D191-04
145	D191-05	.03945	.00097	.00375	.36717	-.00003	56.014*	-.00035	174.34	.00180	.00023	D191-05
146	D191-05M	6.0439	2.5647	.57039	.88941	.52742	55.626*	.50347	216.05	.52026	.50149	D191-05M
147	D191-05S	6.1113	2.5948	.57804	.88761	.52825	56.027*	.51498	218.47	.52302	.49939	D191-05S
148	Blank	.01760	.00175	-.00009	.00031	.00002	.37588	-.00001	.00805	.00012	-.00001	Blank
149	Blank	.01417	.00048	.00188	.00020	-.00003	.24423	-.00001	-.00554	.00007	.00015	Blank
150	CCV13	109.66	1.5120	1.0943	2.0684	1.5489	2.7190	2.0786	80.243	2.5632	.98232	CCV13
151	CCB13	.02266	.00152	-.00010	.00037	.00010	.17989*	.00015	-.00475	.00013	.00008	CCB13
152	D191-01	.03842	.00112	.00381	.13848	-.00001	62.363*	-.00033	209.06	.00334	.00010	D191-01
153	D191-02	.03066	.01566	.01529	.04650	-.00001	283.07*	-.00160	155.92	.00216	-.00011	D191-02
154	D191-03	.02894	.00797	.12530	.03933	-.00002	301.85*	-.00173	63.412	.00187	-.00004	D191-03
155	D191-04	.03185	.00017	.01150	.13780	-.00003	8.3594	-.00014	154.14	.00238	-.00021	D191-04
156	D191-05	.03159	-.00026	.00439	.33877	-.00004	55.710*	-.00034	170.84	.00189	.00030	D191-05
157	D191-05M	6.0239	2.5762	.57006	.86622	.52485	55.815*	.50118	215.84	.51573	.49964	D191-05M
158	D191-05S	5.9432	2.5936	.57119	.85807	.52045	55.376*	.50165	215.79	.51196	.49498	D191-05S
159	Blank	.01327	.00200	.00040	.00012	.00005	.44996	.00011	.01192	.00023	.00010	Blank
160	Blank	.00891	.00060	-.00051	.00007	-.00003	.30311	-.00004	-.00935	.00000	-.00009	Blank
161	CCV14	106.44	1.4971	1.0693	2.0336	1.5254	2.7420	2.0375	79.375	2.5377	.97392	CCV14
162	CCB14	.01785	.00186	-.00067	.00068	.00025	.20741*	.00021	.00600	.00013	.00003	CCB14

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00137	.00001	.00003	-.00002	-.00001	.00000	-.00007	-.00048	-.00020	.00000	Blank
2	S20			.19894			.11506					S20
3	S21			1.9706			1.1399					S21
4	S22	.32538	.05651									S22
5	S23	3.1139	2.1522									S23
6	S24							.74671				S24
7	S25							7.3911				S25
8	S26								.78776	.32922		S26
9	S27								7.5215	3.2942		S27
10	S28					.10809						S28
11	S29					.44149						S29
12	S30				.02730						.00145	S30
13	S31				.13483						.00572	S31
14	ICV	2.5539	25.330	2.4070	.52349	57.621	2.3525	2.4540	2.4276	57.565	1.0516	ICV
15	ICB	.00042	.00595	-.00013	-.00037	.01417	.00046	.00080*	.00010	.07142	.00011	ICB
16	MRLD2201	.01369*	.22054	.01035	.01093	1.0273	.01062	.01059	.01037	.97870	.01114	MRLD2201
17	MRLD2202	.01079	.10621	.00286	.10204	.19219	.00499	.00956	.00984	.94952	.01134	MRLD2202
18	ICSA1	.00137	195.35	.00903	.00578	197.54	.00224	-.00123	.00017	-.02250	.00068	ICSA1
19	ICSAB1	.55593	194.57	.95103	1.1329	194.39	.46843	1.0353	.98105	77.705	1.0946	ICSAB1
20	CCV1	2.6003	24.856	2.4002	.52757	56.983	2.3710	2.5312	2.4512	57.255	1.0449	CCV1
21	CCB1	.00092	.01203	.00040	.00035	.02188	.00074	.00113*	.00048	.11518	.00022	CCB1
22	WTD004SQ	.00120	.00483	.00010	.00074	.01475	.00022	.00023	.00001	.29598	.00443	WTD004SQ
23	D182-10A	.47054	16.928	.95034	.00431	51.397	.75510	.51337	.40012	49.652	.46190	D182-10A
24	D182-10T	.01632	12.653	.52914	.00387	2.1287	.33805	.00046	.00878	.76951	-.00006	D182-10T
25	D182-10J	.00319	2.5327	.10519	.00076	.42545	.06810	.00008	.00164	.18973	.00100	D182-10J
26	D182-10G	.07220	14.585	.61204	.00575	7.2674	.39262	.04780	.05579	5.6998	.05168	D182-10G
27	D182-10H	.07130	17.160	.70682	.00549	7.7646	.46522	.04804	.05537	5.6001	.05084	D182-10H
28	D182-06T	.01023	9.1364	.73286	.00289	2.6018	.13142	.00019	.00698	.43502	-.00041	D182-06T
29	D182-07T	.01023	12.966	.52090	.00314	2.2274	.17408	.00029	.00709	.42033	.00065	D182-07T
30	Blank	.00008	-.00092	.00017	-.00083	.00261	.00012	-.00004	-.00023	.01545	.00028	Blank
31	CCV2	2.6307	25.028	2.4050	.53372	57.903	2.4126	2.5455	2.4623	57.798	1.0599	CCV2
32	CCB2	.00089	.00744	.00030	.00048	.04289*	.00188*	.00076*	.00019	.10307	-.00100	CCB2
33	D479-17T	.01125	2.8901	.00618	.01324	3.2502	.09345	.00062	.00506	3.8274	-.00101	D479-17T
34	D479-18T	.00679	2.5131	.00621	.01546	3.3590	.10278	.00073	.00547	1.9476	.00051	D479-18T
35	D465-01A	.57360	16.779	.52002	.00851	59.655	.61499	.51987	.46650	52.539	.54544	D465-01A
36	D465-01T	.01967	12.202	.02727	.00738	11.520	.12856	-.00038	.01021	1.3609	-.00045	D465-01T
37	D465-01J	.00386	2.4414	.00522	.00146	2.2797	.02541	-.00026	.00169	.25213	-.00154	D465-01J
38	D465-01G	.12995	15.404	.12801	.01030	25.245	.26443	.07877	.09945	11.825	.06239	D465-01G
39	D465-01H	.13390	15.801	.13090	.01032	24.346	.26891	.07844	.10269	11.705	.06725	D465-01H
40	D465-05T	.01729	9.9792	.09674	.01922	17.160	.32332	.00009	.02187	1.5190	-.00073	D465-05T
41	D465-07T	.03378	21.418	.02069	.01184	33.185	.33325	-.00107	.02660	1.4003	-.00072	D465-07T
42	Blank	.00000	-.00174	.00010	-.00076	.00015	-.00001	.00000	-.00020	.00676	.00119	Blank
43	CCV3	2.5804	25.017	2.4085	.52659	57.968	2.3856	2.5524	2.4553	57.329	1.0422	CCV3
44	CCB3	.00093	.00499	.00089	-.00001	.01827	.00050	.00109*	.00039	.05858	.00071	CCB3
45	D465-10T	.02077	12.947	.02284	.00796	11.253	.12201	.00016	.00747	1.7684	.00038	D465-10T
46	D465-11T	.04572	15.826	.02712	.01074	17.516	.19539	-.00035	.01713	1.6916	-.00011	D465-11T
47	D465-13T	.03490	18.937	.02779	.00620	5.5228	.09373	-.00049	.01254	2.4977	-.00018	D465-13T
48	D465-15T	.02532	13.814	.03241	.01251	29.456	.25856	-.00027	.01823	1.2733	.00053	D465-15T
49	D465-16T	.09182	12.209	.11195	.00940	8.2827	.15265	-.00042	.00796	1.2981	-.00079	D465-16T
50	Blank	-.00004	-.00003	-.00017	-.00016	.00789	.00020	.00007	-.00028	.02123	-.00043	Blank
51	CCV4	2.5971	24.738	2.4129	.53277	57.120	2.3900	2.5427	2.4698	58.218	1.0446	CCV4
52	CCB4	.00006	.00143	.00049	-.00088	.01204	.00032	.00054	.00004	.03556	-.00037	CCB4
53	IPD034WQ	.00005	.00009	.00051	.00000	.00029	.00016	.00016	-.00021	-.00270	-.00035	IPD034WQ
54	IPD034WX	.53962	5.2874	.49217	.00011*	48.402	.49224	.50920	.44257	48.100	.54363	IPD034WX

55	IPD034WY	.53854	5.2604	.49496	.00047*	48.387	.49427	.50970	.44388	48.165	.54770	IPD034WY
56	D122-04A	.56472	10.152	.50439	.00446	93.625	3.8507	.56235	.46262	57.321	.57462	D122-04A
57	D122-04W	.00159	4.9743	.00210	.00460	45.093	3.4674	.03717	.00042	5.4277	.00086	D122-04W
58	D122-04J	.00037	1.0325	.00068	.00047	9.1680	.71680	.00728	-.00002	1.0872	-.00033	D122-04J
59	D122-04G	.53894	10.006	.48966	.00476	93.408	3.9126	.55323	.43776	56.867	.54837	D122-04G
60	D122-04H	.53495	10.066	.48590	.00396	93.125	3.8744	.55783	.43624	57.068	.54534	D122-04H
61	D122-01W	.00218	6.7342	.00201	.00411	47.935	2.9804	.04386	.00062	5.1519	-.00201	D122-01W
62	Blank	-.00001	-.00020	.00031	-.00038	.01556	.00061	.00015	-.00019	.07853	.00005	Blank
63	CCV5	2.6127	24.961	2.4139	.53427	57.692	2.3920	2.5555	2.4639	57.977	1.0385	CCV5
64	CCB5	.00011	-.00431	.00013	-.00146	.00509	.00001	.00021	-.00017	.04798	.00058	CCB5
65	D122-02W	.00172	14.558	.00123	.03054	129.72	2.7857	.05508	.00298	8.5995	-.00126	D122-02W
66	D122-03W	.00125	6.8496	.00115	.00591	52.204	3.9645	.03687	.00021	5.0929	-.00072	D122-03W
67	D122-05W	.00093	2.0885	.00086	.00414	40.959	3.2479	.04205	-.00003	5.8135	.00021	D122-05W
68	D122-06W	.00128	6.6880	.00169	.00455	47.671	2.9871	.04358	.00057	5.1090	-.00015	D122-06W
69	Blank	-.00006	.00055	.00049	-.00013	.01061	.00040	.00007	-.00010	.09585	.00020	Blank
70	CCV6	2.6038	24.627	2.4114	.53263	56.906	2.3815	2.5489	2.4676	58.254	1.0506	CCV6
71	CCB6	.00014	-.00231	.00001	-.00028	.00204	.00018	.00028	-.00018	.06072	-.00008	CCB6
72	IPD042WB	.00005	-.00225	.00010	-.00022	.01316	.00018	.00018	-.00009	.04070	-.00098	IPD042WB
73	IPD042WL	.52627	5.1403	.49154	.00050*	47.563	.48963	.50519	.43982	48.356	.53072	IPD042WL
74	IPD042WC	.53271	5.2199	.49675	.00002*	48.170	.49772	.50742	.44308	49.162	.53674	IPD042WC
75	D164-01A	.55735	7.5249	.49987	.00286	94.243	6.0465	.52030	.47210	54.634	.56092	D164-01A
76	D164-01	.00119	2.4281	.00152	.00259	46.890	5.7908	-.00016	.01374	2.6814	.00126	D164-01
77	D164-01J	.00042	.50004	.00032	-.00049	9.5567	1.1979	.00009	.00249	.54668	-.00005	D164-01J
78	D164-01M	.55973	7.5064	.48598	.00286	95.165	6.1932	.51692	.45379	53.975	.55848	D164-01M
79	D164-01S	.57276	7.6870	.49611	.00361	97.882	6.4171	.53105	.46472	55.262	.56536	D164-01S
80	D164-02	.00285	-.00086	.00125	.00133	13.049	.00116	.00022	.00296	2.1309	.00304	D164-02
81	Blank	.00002	-.00486	.00006	-.00084	.00711	.00009	.00003	-.00014	.06589	-.00032	Blank
82	CCV7	2.6696	24.855	2.4048	.53707	57.307	2.4041	2.5532	2.4746	58.236	1.0740	CCV7
83	CCB7	.00089	.00712	.00073	-.00083	.00121	.00055	.00116*	.00038	.09582	-.00019	CCB7
84	IPD043WB	.00011	-.00242	.00062	-.00019	.00660	.00051	.00025	-.00007	.05550	-.00014	IPD043WB
85	IPD043WL	.55446	5.3405	.50266	-.00017*	49.371	.50823	.51490	.45181	49.819	.54903	IPD043WL
86	IPD043WC	.55230	5.2693	.49558	-.00104*	48.960	.50250	.50741	.44572	49.374	.54794	IPD043WC
87	D164-03	.00190	.08297	.00100	.00069	19.544	.97630	.00011	.01053	2.1912	.00110	D164-03
88	D164-04A	.56523	5.3329	.49821	.00147	64.213	.62082	.51541	.46441	52.912	.56324	D164-04A
89	D164-04	.00163	.00495	.00073	.00058	14.861	.11769	.00019	.00490	2.5396	.00245	D164-04
90	D164-04J	.00035	-.00202	.00007	-.00029	3.0803	.02433	.00014	.00088	.53923	.00078	D164-04J
91	D164-05	.00090	1.1651	.00104	.00127	40.372	2.9823	-.00016	.00722	3.3611	.00214	D164-05
92	D164-06	.00059	.11014	.00087	.00676	13.303	.53119	.00008	.00276	1.7659	.00210	D164-06
93	Blank	-.00008	-.00390	-.00003	-.00078	-.00037	.00002	.00007	-.00015	.04127	.00026	Blank
94	CCV8	2.6309	24.908	2.4058	.53531	57.981	2.4161	2.5335	2.4616	58.379	1.0546	CCV8
95	CCB8	.00049	.00263	.00077	-.00093	.00719	.00028	.00068*	.00015	.05229	.00005	CCB8
96	IPD044WB	.00011	-.00021	-.00022	-.00131	-.00413	.00022	.00019	-.00022	.03511	.00056	IPD044WB
97	IPD044WL	.57858	5.5093	.51142	-.00013*	48.497	.52328	.52873	.46250	49.100	.56767	IPD044WL
98	IPD044WC	.58458	5.5819	.51976	-.00055*	49.565	.52711	.51407	.47029	50.126	.57452	IPD044WC
99	WTD005SB	.00176	.00795	-.00037	.00222	.02430	.00034	.00013	.00000	1.0824*	.02788*	WTD005SB
100	C270-08A	2.9052	45.619	1.2602	.01716	71.787	1.6336	.57565	.60487	71.845	.76949	C270-08A
101	C270-08	2.2797	41.124	.79135	.01673	24.124	1.1564	.02788	.15847	12.387	.03374	C270-08
102	C270-08J	.41625	8.4301	.16157	.00287	4.9875	.23714	.00541	.03143	2.4489	.00648	C270-08J
103	C270-08M	2.9706	47.205	1.2978	.01732	70.404	1.6874	.57632	.60776	69.226	.78605	C270-08M
104	C270-08S	3.0035	47.532	1.3114	.01802	74.231	1.6936	.59149	.62095	74.242	.81281	C270-08S
105	Blank	.00036	.00088	.00067	-.00030	.00358	.00033	.00026	-.00016	.49854	-.00014	Blank
106	CCV9	2.6986	25.131	2.4061	.54031	58.199	2.4290	2.5599	2.4777	59.020	1.0660	CCV9
107	CCB9	.00038	-.00085	.00030	.00001	.02544	.00118*	.00065*	.00006	.24079*	.00016	CCB9
108	D212-01	.00304	5.8440	.01555	.00933	6.5495	.33879	.00671	.03988	.95199	-.00095	D212-01
109	D212-02	.00278	4.1244	.00083	.00916	6.5017	.33694	.00662	.04031	.94740	-.00177	D212-02
110	D212-03	.00277	4.4804	.01067	.00785	9.1870	.18531	.00440	.00851	1.5829	-.00158	D212-03
111	D212-04	.00239	.32079	.00110	.00732	8.9554	.16761	.00452	.00809	1.5332	-.00029	D212-04

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
112	D212-05	.00511	27757	.02360	.00890	8.0991	.28625	.00117	.01318	1.7346	-.00043	D212-05
113	D212-06	.00634	19745	.01253	.00965	8.2677	.28720	.00113	.01524	1.7399	-.00008	D212-06
114	Blank	.00007	-.00095	-.00021	-.00131	.00817	.00027	.00008	-.00011	.10403	.00028	Blank
115	CCV10	2.7042	25.091	2.4034	.54051	58.363	2.4242	2.5329	2.4686	58.805	1.0662	CCV10
116	CCB10	.00093	.00471	.00055	.00023	.04928*	.00150*	.00089*	.00003	.14862*	.00071	CCB10
117	D190-01	.00173	.08063	.00146	.05269	39.911	.13609	.00131	.00184	53.130	-.00382	D190-01
118	D190-02	.00190	.08448	.00180	.05337	40.887	.13802	.00124	.00212	54.079	-.00344	D190-02
119	D190-03	.00184	5.8786	.00193	.07929	36.882	.49176	.01447	.00456	16.465	.00039	D190-03
120	D190-04	.00183	.12782	.00272	.10392	10.785	.01371	.01058	.00261	14.135	-.01016*	D190-04
121	D190-05	.00471	.07618	.00323	.04361	7.7733	.01098	.00245	.00250	12.154	-.00379	D190-05
122	D190-06	.00168	10.256	.00190	.03625	13.739	.48247	.05056	.00173	11.285	-.00243	D190-06
123	D190-07	.00163	2.1719	.00112	.10778	21.397	.16923	.00058	.00073	15.234	.00008	D190-07
124	D190-08	.00025	.00465	.00012	.00006	.00690	.00022	.00004	.00014	.15722	-.00048	D190-08
125	Blank	.00013	-.00209	-.00007	-.00065	-.00041	.00010	.00000	-.00019	.11589	-.00122	Blank
126	Blank	.00005	-.00358	.00067	-.00117	.00352	.00001	.00004	-.00015	.09255	.00148	Blank
127	CCV11	2.6969	25.217	2.4049	.54513	58.482	2.4245	2.5338	2.4715	59.417	1.0696	CCV11
128	CCB11	.00042	-.00224	.00046	-.00093	.00223	.00011	.00062*	-.00003	.12377	.00024	CCB11
129	D190-01	.00151	.06642	.00157	.05287	40.246	.13683	.00144	.00164	53.392	-.00301	D190-01
130	D190-02	.00160	.06448	.00142	.05311	40.413	.13638	.00121	.00171	53.489	-.00333	D190-02
131	D190-03	.00142	.61693	.00146	.08051	36.417	.47424	.01424	.00395	16.402	-.00137	D190-03
132	D190-04	.00186	.10435	.00263	.10337	10.538	.01339	.01091	.00243	14.027	-.01022*	D190-04
133	D190-05	.00529	.06706	.00279	.04292	7.6227	.01059	.00275	.00264	11.974	-.00547*	D190-05
134	D190-06	.00096	5.4280	.00120	.03422	12.833	.44682	.04716	.00127	10.541	-.00253	D190-06
135	D190-07	.00097	1.3904	.00013	.10514	20.699	.16323	.00040	.00059	14.908	.00097	D190-07
136	D190-08	.00006	-.00108	.00015	.00012	.00961	.00038	.00004	-.00006	.15550	.00046	D190-08
137	Blank	.00003	-.00080	.00009	-.00071	.00077	.00019	.00001	-.00021	.10005	.00059	Blank
138	Blank	.00016	-.00317	.00033	-.00073	.00430	.00013	.00012	-.00014	.08299	.00074	Blank
139	CCV12	2.7046	25.014	2.4038	.54993	57.810	2.4079	2.5512	2.4779	59.768	1.0693	CCV12
140	CCB12	.00056	-.00184	.00020	-.00075	.00669	.00060	.00065*	-.00011	.11052	-.00020	CCB12
141	D191-01	.00214	.28103	.00178	.06482	27.886	.04272	.00461	.00108	19.606	-.00143	D191-01
142	D191-02	.00469	.34904	.00268	.16057	15.629	.05924	.03041	.00289	16.433	-.01055*	D191-02
143	D191-03	.00282	1.9281	.00364	.11342	7.7261	.01367	.01466	.00107	23.339	-.01001*	D191-03
144	D191-04	.00121	.40856	.00113	.01977	13.704	.04972	.00014	.00056	6.7947	.00028	D191-04
145	D191-05	.00147	1.1440	.00114	.06894	58.387	.08695	.00444	.00106	167.03	-.00074	D191-05
146	D191-05M	.58669	6.1866	.49490	.07070	104.05	.56847	.54115	.45528	218.84	.55093	D191-05M
147	D191-05S	.58978	6.2423	.49311	.07042	105.72	.56916	.54030	.45380	218.27	.55498	D191-05S
148	Blank	.00013	-.00225	.00020	-.00048	.01984	.00005	.00012	-.00023	.70786	.00027	Blank
149	Blank	-.00005	-.00607	.00014	-.00041	-.00219	.00021	.00013	-.00009	.30369	.00020	Blank
150	CCV13	2.7077	25.019	2.4046	.55056*	57.537	2.3937	2.5517	2.4788	59.793	1.0681	CCV13
151	CCB13	.00034	-.00219	.00015	-.00025	.00686	.00033	.00065*	-.00022	.20781*	.00024	CCB13
152	D191-01	.00165	.19642	.00193	.06463	28.398	.04329	.00462	.00100	19.955	-.00165	D191-01
153	D191-02	.00419	.01147	.00283	.15405	15.317	.02461	.02913	.00292	16.006	-.00892*	D191-02
154	D191-03	.00181	.27163	.00289	.11273	8.0120	.01325	.01415	.00091	23.492	-.01001*	D191-03
155	D191-04	.00098	.20873	.00071	.01829	13.823	.04904	.00013	.00039	6.7774	-.00020	D191-04
156	D191-05	.00137	.25851	.00092	.06948	57.706	.08475	.00430	.00105	165.90	-.00126	D191-05
157	D191-05M	.58311	5.3308	.49338	.07103	105.24	.56504	.54189	.45501	219.96	.55946	D191-05M
158	D191-05S	.57687	5.2873	.49084	.07029	104.66	.56051	.53922	.45084	219.16	.56204	D191-05S
159	Blank	.00003	-.00112	-.00007	-.00006	.00988	.00007	.00024	-.00013	.76827	.00050	Blank
160	Blank	-.00024	-.00145	.00010	.00011	.00475	.00007	.00000	-.00014	.33323	.00085	Blank
161	CCV14	2.6091	24.957	2.4114	.54447	57.134	2.3678	2.5209	2.4592	60.122	1.0470	CCV14
162	CCB14	.00029	-.00094	.00018	.00005	.02150	.00059	.00077*	.00018	.27017*	.00007	CCB14

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00010	.00117	-.00011	-.00001	.00008	.00001	-.00017	.00107	Blank
2	S20									S20
3	S21									S21
4	S22							.14256		S22
5	S23							1.4287		S23
6	S24		1.0540							S24
7	S25		6.1599							S25
8	S26									S26
9	S27									S27
10	S28				.00618					S28
11	S29				.05996					S29
12	S30	.04329		.13421		.02591	.01612		.60057	S30
13	S31	.21442		.65085		.12574	.08013		5.8993	S31
14	ICV	.50397	61.507	.48602	2.3880	.47008	.49226	1.4781	2.6025	ICV
15	ICB	.00021	.03906	.00008	.00053	-.00017	-.00025	.00043	-.00020	ICB
16	MRLD2201	.01032	1.1888	.01097	.01072	-.00011	.01050	.01064	.02255	MRLD2201
17	MRLD2202	.01007	.51658	.00992	.01060	.00944	.01030	.01020	.00994	MRLD2202
18	ICSA1	.00039	.13583	.00124	-.00119	.00141	.00371	-.00001	.00280	ICSA1
19	ICSAB1	1.1067	82.667	.49747	.87268	.95998	.98761	.49657	1.0459	ICSAB1
20	CCV1	.50652	62.115	.49812	2.3520	.49270	.49453	1.4689	2.6070	CCV1
21	CCB1	.00026	.06829	.00023	.00055	.00006	-.00019	.00071*	.00199	CCB1
22	WTD004SQ	.00017	564.16*	.00143	-.00329	.00130	.00023	.00033	.05705*	WTD004SQ
23	D182-10A	.42070	52.677	.49100	.43718	.48397	.66565	.46189	4.6643	D182-10A
24	D182-10T	.00020	.13218	.00652	-.00037	.00497	.15331	.02161	4.0343	D182-10T
25	D182-10J	.00013	.05921	.00142	-.00017	.00084	.03073	.00444	.79840	D182-10J
26	D182-10G	.05081	5.2708	.05656	.05321	.05148	.22686	.07676	4.4535	D182-10G
27	D182-10H	.04967	5.1508	.05725	.05172	.05204	.23991	.07913	4.6748	D182-10H
28	D182-06T	.00001	.04460	.00552	-.00043	.00471	.06421	.01477	5.4485	D182-06T
29	D182-07T	.00002	.04240	.00731	-.00018	.00436	.09842	.02281	5.9848	D182-07T
30	Blank	.00010	-.00016	.00004	-.00069	.00006	-.00019	.00012	-.00049	Blank
31	CCV2	.51520	62.696	.50432	2.4040	.49146	.50014	1.4843	2.6131	CCV2
32	CCB2	.00026	.07486	.00038	.00004	.00006	.00050	.00061	.00002	CCB2
33	D479-17T	.00160	8.9324	.11765	-.00022	.03845	.83560	.00613	.34087	D479-17T
34	D479-18T	.00220	4.4343	.07687	-.00068	.03596	.81367	.00544	.35109	D479-18T
35	D465-01A	.51301	58.273	.72388	.47778	.49613	2.2182	.52769	28.860	D465-01A
36	D465-01T	-.00008	3.9310	.24987	-.00063	.02828	1.7866	.01646	29.179	D465-01T
37	D465-01J	-.00015	.73379	.04855	.00017	.00525	.34540	.00336	5.9003	D465-01J
38	D465-01G	.10220	15.830	.45365	.08999	.12384	2.1980	.11988	33.646	D465-01G
39	D465-01H	.10405	15.743	.50310	.09149	.12277	2.1816	.12329	32.576	D465-01H
40	D465-05T	.00019	5.1292	.92268	-.00132	.01403	1.4887	.03006	63.855*	D465-05T
41	D465-07T	-.00017	4.5340	1.0273	-.00020	.02139	2.9057	.06912	29.187	D465-07T
42	Blank	.00009	-.00985	.00008	.00022	.00003	.00029	.00028	.00128	Blank
43	CCV3	.50710	62.162	.49700	2.3813	.49684	.49735	1.4830	2.6159	CCV3
44	CCB3	.00035	.02351	.00006	.00022	.00025	.00049	.00072*	.00049	CCB3
45	D465-10T	.00006	4.6877	.20638	-.00102	.03091	1.4425	.01711	19.764	D465-10T
46	D465-11T	.00017	5.1670	.64477	-.00077	.02764	1.8834	.03379	19.811	D465-11T
47	D465-13T	.00011	4.8996	.10441	-.00135	.04047	2.1772	.01629	47.774*	D465-13T
48	D465-15T	-.00005	4.0875	.75791	-.00158	.01799	1.9756	.03242	16.586	D465-15T
49	D465-16T	-.00018	3.1668	.32766	-.00096	.02369	1.6605	.01391	29.852	D465-16T
50	Blank	.00009	-.00680	.00007	-.00033	.00005	.00042	.00018	.00225	Blank
51	CCV4	.50784	62.822	.50480	2.3331	.49370	.49722	1.4668	2.6134	CCV4
52	CCB4	.00015	.01167	.00002	-.00054	-.00012	.00004	.00037	-.00039	CCB4
53	IPD034WQ	.00006	-.00023	.00003	.00031	-.00009	-.00008	.00002	-.00008	IPD034WQ
54	IPD034WX	.51482	51.401	.47770	.51437	.47055	.50969	.51536	.52737	IPD034WX

55	IPD034WY	.51604	51.551	.48079	.51745	.47224	.51116	.51291	.52807	IPD034WY
56	D122-04A	.53107	215.32	2.1197	.48783	.48249	.52605	.52953	.55322	D122-04A
57	D122-04W	-.00007	167.39	1.6842	-.00073	.00008	.01388	.00070	.00452	D122-04W
58	D122-04J	-.00004	33.442	.34147	-.00004	.00033	.00431	.00021	.00089	D122-04J
59	D122-04G	.53586	218.71	2.1625	.46518	.47553	.52116	.50777	.53306	D122-04G
60	D122-04H	.53240	218.36	2.1457	.46652	.48156	.52768	.50736	.53128	D122-04H
61	D122-01W	-.00007	162.30	1.6685	-.00017	.00022	.00858	.00035	.01041	D122-01W
62	Blank	.00019	.15152	.00035	.00038	-.00030	-.00002	.00022	-.00092	Blank
63	CCV5	.51055	62.844	.50152	2.3668	.49330	.49778	1.4823	2.6184	CCV5
64	CCB5	.00007	.03660	-.00001	.00003	.00005	.00009	.00022	-.00065	CCB5
65	D122-02W	-.00028	395.82	3.4714	-.00073	-.00059	.00128	-.00006	.00449	D122-02W
66	D122-03W	-.00001	159.97	1.8512	-.00087	-.00040	.00173	.00003	.00428	D122-03W
67	D122-05W	-.00020	160.21	1.6168	-.00111	-.00014	.00168	.00002	.00408	D122-05W
68	D122-06W	-.00008	162.07	1.6845	-.00050	-.00011	.00917	.00031	.00580	D122-06W
69	Blank	.00005	.17888	.00031	-.00014	-.00013	.00000	.00023	-.00097	Blank
70	CCV6	.50875	62.872	.50532	2.3386	.49466	.49665	1.4621	2.6024	CCV6
71	CCB6	.00004	.06889	.00010	.00035	.00008	-.00027	.00026	-.00072	CCB6
72	IPD042WB	.00009	.05788	.00008	-.00024	-.00011	-.00015	.00021	.00232	IPD042WB
73	IPD042WL	.51007	51.470	.48501	.50015	.47066	.50525	.50350	.52340	IPD042WL
74	IPD042WC	.51857	52.205	.48741	.50713	.47185	.50767	.51028	.52984	IPD042WC
75	D164-01A	.52476	228.53	1.6868	.48537	.47583	.50763	.51734	.55851	D164-01A
76	D164-01	.00003	181.96	1.2360	-.00124	.00074	.00144	.00045	.01884	D164-01
77	D164-01J	.00004	36.319	.24998	.00040	.00007	.00029	.00026	.00310	D164-01J
78	D164-01M	.54484	230.44	1.7139	.47412	.46529	.50803	.51118	.53930	D164-01M
79	D164-01S	.55726	238.46	1.7678	.48260	.47602	.52210	.52233	.55209	D164-01S
80	D164-02	.00007	68.956	.37338	-.00065	.00020	.00049	.00108	.01120	D164-02
81	Blank	.00012	.11662	.00003	-.00060	-.00035	-.00005	.00016	-.00102	Blank
82	CCV7	.51736	63.009	.50747	2.4038	.48756	.49924	1.4750	2.5999	CCV7
83	CCB7	.00034	.08702	.00007	.00047	-.00028	.00021	.00051	-.00022	CCB7
84	IPD043WB	.00005	.06066	.00010	-.00024	.00002	.00009	.00011	.00094	IPD043WB
85	IPD043WL	.53443	53.162	.49590	.52213	.47099	.51578	.52049	.53675	IPD043WL
86	IPD043WC	.53205	52.551	.48975	.52059	.46327	.50985	.51315	.52952	IPD043WC
87	D164-03	.00026	69.617	.51303	-.00003	-.00018	.00025	.00094	.02607	D164-03
88	D164-04A	.51981	119.90	.86051	.51926	.47003	.51555	.52248	.55104	D164-04A
89	D164-04	.00015	67.791	.37833	.00034	.00007	.00016	.00119	.01293	D164-04
90	D164-04J	.00011	13.885	.07806	.00020	.00002	.00045	.00046	.00206	D164-04J
91	D164-05	-.00007	124.18	.90239	-.00062	.00010	.00065	.00025	.00565	D164-05
92	D164-06	.00003	58.127	.32303	-.00049	-.00024	.00091	.00084	.00471	D164-06
93	Blank	.00010	.07184	.00003	-.00024	-.00010	.00013	.00011	-.00089	Blank
94	CCV8	.51626	63.126	.50684	2.4132	.48763	.49601	1.4738	2.6101	CCV8
95	CCB8	.00024	.04761	.00004	.00072	.00021	-.00023	.00028	-.00033	CCB8
96	IPD044WB	.00006	.03654	-.00002	.00049	.00023	.00054	.00017	.00005	IPD044WB
97	IPD044WL	.55114	52.186	.51062	.53899	.48251	.53511	.53571	.54745	IPD044WL
98	IPD044WC	.55557	53.332	.49244	.54333	.46879	.51774	.54235	.55578	IPD044WC
99	WTD005SB	.00044	2337.0*	.00053	-.01838	.00947	.00082	.00050	.00119	WTD005SB
100	C270-08A	.59712	2363.0*	1.2776	.42352	.53218	1.0378	.72293	3.3358	C270-08A
101	C270-08	-.00020	2277.5*	.77608	-.01792*	.06551	.52813	.21210	2.8016	C270-08
102	C270-08J	-.00005	526.80	.15443	-.00326	.01283	.10528	.04235	.54829	C270-08J
103	C270-08M	.64885	2402.7*	1.3041	.43631	.53780	1.0571	.74928	3.4445	C270-08M
104	C270-08S	.66489	2399.2*	1.3162	.45054	.54598	1.0664	.76653	3.4453	C270-08S
105	Blank	.00013	1.9450	.00013	-.00007	.00022	.00007	.00032	.00226	Blank
106	CCV9	.52310	64.687	.51335	2.4171	.48686	.50237	1.4907	2.6137	CCV9
107	CCB9	.00015	.74081*	.00012	.00007	-.00036	.00028	.00035	-.00069	CCB9
108	D212-01	-.00033	2.8245	.30305	.00002	-.00025	.00147	.00002	8.2849	D212-01
109	D212-02	-.00042	2.7555	.30344	-.00061	-.00007	.00121	.00028	7.8953	D212-02
110	D212-03	-.00032	4.7702	.33217	-.00022	-.00034	.00171	.00008	3.3276	D212-03
111	D212-04	-.00013	4.7179	.32903	-.00026	.00007	.00173	.00009	2.6168	D212-04

112	D212-05	-.00032	4.5234	.41146	-.00020	-.00026	.00182	.00014	10.553	D212-05
113	D212-06	-.00015	4.5635	.41186	-.00146	.00026	.00157	-.00005	10.744	D212-06
114	Blank	.00014	.31257	.00008	-.00030	-.00015	-.00009	.00034	.00319	Blank
115	CCV10	.52532	63.860	.51184	2.4296	.48232	.50227	1.4865	2.6229	CCV10
116	CCB10	.00023	.34533*	.00028	.00015	.00030	.00024	.00043	-.00039	CCB10
117	D190-01	-.00048	339.33	.87010	-.00131	.00200	.00501	.00848	.00238	D190-01
118	D190-02	-.00054	345.24	.87739	-.00055	.00219	.00514	.00843	.00193	D190-02
119	D190-03	-.00044	200.62	1.2087	-.00170	.00181	.00959	.02041	.00487	D190-03
120	D190-04	-.00100	405.99	.51899	-.00149	.00616	.00436	.01106	.00287	D190-04
121	D190-05	-.00049	254.37	.27210	-.00108	.00212	.04807	.02826	.00326	D190-05
122	D190-06	-.00040	142.58	1.0376	-.00096	.00162	.00461	.00590	.00645	D190-06
123	D190-07	-.00023	96.454	1.2850	-.00090	.00026	.00420	.00770	.00333	D190-07
124	D190-08	.00005	.27833	.00026	-.00020	.00022	.00004	.00011	.00586	D190-08
125	Blank	.00021	.21037	-.00001	-.00034	.00021	-.00018	.00026	.00130	Blank
126	Blank	.00009	.19079	-.00002	-.00043	-.00003	.00022	.00008	.00167	Blank
127	CCV11	.52407	64.198	.51268	2.4236	.48203	.50226	1.4875	2.6117	CCV11
128	CCB11	.00011	.18458*	.00005	.00009	.00031	.00009	.00034	-.00076	CCB11
129	D190-01	-.00056	338.28	.87112	-.00070	.00185	.00473	.00850	.00398	D190-01
130	D190-02	-.00043	339.52	.86712	-.00165	.00224	.00489	.00852	.00604	D190-02
131	D190-03	-.00045	200.87	1.1859	-.00111	.00214	.00711	.01792	.00311	D190-03
132	D190-04	-.00127	398.73	.51360	-.00238	.00536	.00541	.01111	.00286	D190-04
133	D190-05	-.00051	253.94	.26899	-.00043	.00218	.05243	.02837	.00500	D190-05
134	D190-06	-.00046	133.57	.96866	-.00090	.00114	.00224	.00370	.00297	D190-06
135	D190-07	-.00016	94.264	1.2544	-.00112	.00024	.00327	.00689	.00245	D190-07
136	D190-08	.00010	.28435	.00055	-.00041	-.00011	-.00026	.00021	.00314	D190-08
137	Blank	.00014	.18812	.00005	-.00028	.00001	-.00011	.00023	.00227	Blank
138	Blank	.00016	.17250	-.00004	-.00050	-.00005	-.00014	.00020	.00270	Blank
139	CCV12	.52526	64.523	.51484	2.4166	.48397	.50180	1.4807	2.5981	CCV12
140	CCB12	.00006	.17121*	.00012	-.00009	.00012	-.00015	.00028	-.00078	CCB12
141	D191-01	-.00026	180.32	1.2386	-.00035	.00113	.00460	.00701	.00427	D191-01
142	D191-02	-.00129	480.68	.73937	-.00149	.00579	.00164	.00167	.00644	D191-02
143	D191-03	-.00133	496.61	.32055	-.00178	.00613	.00170	.00342	.00505	D191-03
144	D191-04	-.00006	36.489	.96097	-.00096	.00024	.00691	.00853	.00432	D191-04
145	D191-05	-.00017	358.28	1.1353	-.00091	.00114	.00293	.00405	.00627	D191-05
146	D191-05M	.57598	408.86	1.6252	.45172	.47462	.51400	.51548	.53955	D191-05M
147	D191-05S	.57785	408.30	1.6205	.46156	.47539	.51471	.51852	.54214	D191-05S
148	Blank	.00014	.42792	.00014	-.00031	.00003	.00026	.00027	-.00078	Blank
149	Blank	.00016	.22049	-.00003	-.00019	.00074	.00019	.00021	-.00056	Blank
150	CCV13	.52215	64.463	.51479	2.4127	.48257	.50147	1.4811	2.5995	CCV13
151	CCB13	.00015	.17071*	.00005	-.00009	-.00007	-.00002	.00025	-.00078	CCB13
152	D191-01	-.00025	181.69	1.2444	-.00056	.00075	.00434	.00671	.00341	D191-01
153	D191-02	-.00122	468.97	.71234	-.00156	.00546	.00179	.00155	.00513	D191-02
154	D191-03	-.00122	503.08	.31621	-.00136	.00525	.00127	.00291	.00229	D191-03
155	D191-04	-.00019	36.225	.94609	-.00042	-.00039	.00394	.00808	.00355	D191-04
156	D191-05	-.00023	356.69	1.1229	-.00046	.00095	.00287	.00395	.00214	D191-05
157	D191-05M	.57011	411.34	1.6273	.44932	.47778	.51578	.51514	.54257	D191-05M
158	D191-05S	.56567	406.30	1.6178	.45104	.47608	.51258	.51047	.53653	D191-05S
159	Blank	.00022	.45360	.00024	.00030	.00032	.00009	.00030	-.00059	Blank
160	Blank	.00018	.24292	.00009	-.00023	-.00008	.00010	.00010	-.00115	Blank
161	CCV14	.51400	64.469	.51050	2.3541	.49047	.49544	1.4695	2.6233	CCV14
162	CCB14	.00022	.20050*	.00008	.00062	-.00035	.00026	.00012	-.00069	CCB14
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

1701

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-100
Batch: IPD039S
Matrix: Soil
Digestor ID: C

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	5
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		°C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-348	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SM5B-02-155	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☑ Thermometer ID: 11124 1146
☑ Pipette ID: ICP-07
☑ Pipette ID: 538480308
☐ Pipette ID:
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 5.0 ml with Class A volumetric flask

Prepared By: HF
Standard Added By: HF Witnessed By: [illegible]
Extract Rcvd By: TH Checked By: TH

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPD039S01	IPD039SB	1	g	4/19/11 13:04	100	1	100	1	
11IPD039S02	IPD039SL	1	g	4/19/11 13:04	100	1	100	1	
11IPD039S03	IPD039SC	1	g	4/19/11 13:04	100	1	100	1	
11IPD039S04	D182-01	1.04	g	4/19/11 13:07	100	1	100	0.962	✓
11IPD039S05	D182-02	1.36	g	4/19/11 13:08	100	1	100	0.735	✓
11IPD039S06	D182-03	1.12	g	4/19/11 13:09	100	1	100	0.893	✓
11IPD039S07	D182-04	1.23	g	4/19/11 13:10	100	1	100	0.813	✓
11IPD039S08	D182-05	1.2	g	4/19/11 13:11	100	1	100	0.833	✓
11IPD039S09	D182-06	1.03	g	4/19/11 13:12	100	1	100	0.971	✓
11IPD039S10	D182-07	1.24	g	4/19/11 13:14	100	1	100	0.806	✓
11IPD039S11	D182-08	1.2	g	4/19/11 13:15	100	1	100	0.833	✓
11IPD039S12	D182-09	1.39	g	4/19/11 13:16	100	1	100	0.719	✓
11IPD039S13	D182-10	1.09	g	4/19/11 13:17	100	1	100	0.917	✓
11IPD039S14	D182-10M	1.17	g	4/19/11 13:18	100	1	100	0.855	✓
11IPD039S15	D182-10S	1.33	g	4/19/11 13:18	100	1	100	0.752	✓

HF 4/19/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/19/11 15:30 Prepared By: HF

☑ Digestion Ended @ 4/19/11 17:30 Checked By: TH

Comments: Date 4/19/11

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of three (3) soil samples were received on 04/16/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPD041SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Samples were oven-dried and pass through sieve # 60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPD041SB	1	NA	04/21/1116:32	04/20/1116:13	ID8D024024	ID8D024022	IPD041S	Method Blank
LCS1S	IPD041SL	1	NA	04/21/1116:35	04/20/1116:13	ID8D024025	ID8D024022	IPD041S	Lab Control Sample (LCS)
LCD1S	IPD041SC	1	NA	04/21/1116:38	04/20/1116:13	ID8D024026	ID8D024022	IPD041S	LCS Duplicate
IR5-SS2-046-050-COMPAS	D192-11A	0.794	13.5	04/21/1116:40	04/20/1116:13	ID8D024027	ID8D024022	IPD041S	Analytical Spike Sample
IR5-SS2-046-050-COMP	D192-11	0.794	13.5	04/21/1116:43	04/20/1116:13	ID8D024028	ID8D024022	IPD041S	Field Sample
IR5-SS2-046-050-COMPDL	D192-11J	3.97	13.5	04/21/1116:45	04/20/1116:13	ID8D024029	ID8D024022	IPD041S	Diluted Sample
CB146-01-01	D182-01	0.893	NA	04/21/1119:41	04/20/1116:13	ID8D024092	ID8D024087	IPD041S	Field Sample
CB231-18-01	D182-04	0.943	NA	04/21/1119:44	04/20/1116:13	ID8D024093	ID8D024087	IPD041S	Field Sample
CB146-02-02	D182-07	0.926	NA	04/21/1119:47	04/20/1116:13	ID8D024094	ID8D024087	IPD041S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	04/12/11 17:25
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/20/11 16:13
Sample ID:	CB146-01-01	Date Analyzed:	04/21/11 19:41
Lab Samp ID:	D182-01	Dilution Factor:	0.893
Lab File ID:	ID8D024092	Matrix :	SOIL
Ext Btch ID:	IPD041S	% Moisture :	NA
Calib. Ref.:	ID8D024087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	99.5	0.893	0.268

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client :	CH2M HILL	Date Collected:	04/12/11 09:30
Project :	TAR CREEK OU4	Date Received:	04/16/11
SDG NO. :	11D182	Date Extracted:	04/20/11 16:13
Sample ID:	CB231-18-01	Date Analyzed:	04/21/11 19:44
Lab Samp ID:	D182-04	Dilution Factor:	0.943
Lab File ID:	ID8D024093	Matrix :	SOIL
Ext Btch ID:	IPD041S	% Moisture :	NA
Calib. Ref.:	ID8D024087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	107	0.943	0.283

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client :	CH2M HILL	Date Collected:	04/12/11 17:50
Project :	TAR CREEK OU4	Date Received:	04/16/11
SDG NO. :	11D182	Date Extracted:	04/20/11 16:13
Sample ID:	CB146-02-02	Date Analyzed:	04/21/11 19:47
Lab Samp ID:	D182-07	Dilution Factor:	0.926
Lab File ID:	ID8D024094	Matrix :	SOIL
Ext Btch ID:	IPD041S	% Moisture :	NA
Calib. Ref.:	ID8D024087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	529	0.926	0.278

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client :	CH2M HILL	Date Collected:	NA
Project :	TAR CREEK OU4	Date Received:	04/20/11
SDG NO. :	11D182	Date Extracted:	04/20/11 16:13
Sample ID:	MBLK1S	Date Analyzed:	04/21/11 16:32
Lab Samp ID:	IPD041SB	Dilution Factor:	1
Lab File ID:	ID8D024024	Matrix :	SOIL
Ext Btch ID:	IPD041S	% Moisture :	NA
Calib. Ref.:	ID8D024022	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPD041SB	IPD041SL	IPD041SC		
LAB FILE ID:	ID8D024024	ID8D024025	ID8D024026		
DATIME EXTRCTD:	04/20/1116:13	04/20/1116:13	04/20/1116:13	DATE COLLECTED:	NA
DATIME ANALYZD:	04/21/1116:32	04/21/1116:35	04/21/1116:38	DATE RECEIVED:	04/20/11
PREP. BATCH:	IPD041S	IPD041S	IPD041S		
CALIB. REF:	ID8D024022	ID8D024022	ID8D024022		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	49.8	100	50	49.8	100	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: METHOD 3050B/6010B

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MATRIX: SOIL % MOISTURE: 13.5

DILUTION FACTOR:	0.794	3.97
SAMPLE ID:	IR5-SS2-046-050-COMP	IR5-SS2-046-050-COM
EMAX SAMP ID:	D192-11	D192-11J
LAB FILE ID:	ID8D024028	ID8D024029
DATE EXTRACTED:	04/20/1116:13	04/20/1116:13
DATE ANALYZED:	04/21/1116:43	04/21/1116:45
PREP. BATCH:	IPD041S	IPD041S
CALIB. REF:	ID8D024022	ID8D024022

DATE COLLECTED: 04/18/11 14:10
DATE RECEIVED: 04/18/11

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	6.08	6.37	5	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 3050B/6010B

MATRIX: SOIL % MOISTURE: 13.5
DILTN FACTR: 0.794 0.794
SAMPLE ID: IR5-SS2-046-050-COMP
CONTROL NO.: D192-11 D192-11A
LAB FILE ID: ID8D024028 ID8D024027
DATIME EXTRCTD: 04/20/1116:13 04/20/1116:13 DATE COLLECTED: 04/18/11 14:10
DATIME ANALYZD: 04/21/1116:43 04/21/1116:40 DATE RECEIVED: 04/18/11
PREP. BATCH: IPD041S IPD041S
CALIB. REF: ID8D024022 ID8D024022

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	6.08	45.9	53.5	103	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/21/11 15:24

End Date: 4/21/11 23:43

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	1
☐ EMAX-	

Comments: -ICSA1 Cd, Pb >LOD in method 11D6010(V24). Update IEC saved as 11D6010(V25).
- ICSA1 Na>LOD.
- CCB7 Al, K, Na>LOD
- D182-10 Zn>LOR. Needs dilution
06
07
- D465-01 Ca>LOR. Needs dilution since Ca interfers w/ Pb
05
07
10
11
13
15
16

Book #: AD8-019

Instrument No.: D8

Analytical Batch: 1D8D624

Analytical Sequence: S-11 D6OD (V25)

Method File: 11D6010(V25)

Database: Emax 13

	STANDARDS ID		STANDARDS ID
S0	SMIB14-5004	S30	SMIB14-4201
S1	NA	S31	4202
S2		ICV	5412
S3		CCV	7005
S4		ICSA	5001
S5		ICSAB	4601
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1	SMIB14-4109
S10		MRL2	5302
S11			
S12			
S16			
S17			
S18			
S20	SMIB14-3102		
S21	3702		
S22	3703		
S23	3704		
S24	40-01		
S25	4002		
S26	2801		
S27	2802		
S28	4003		
S29	4004		

Analyzed By: TH

Date: 4/22/11

7090

SEQUENCE FILE : ID8D024

4-18 LFID	19-33 LSID	34-43 TIME	44-53 DATE	54-63 DF
ID8D024001	Blank	15:24	04/21/11	1.000
ID8D024002	S20	15:27	04/21/11	1.000
ID8D024003	S21	15:30	04/21/11	1.000
ID8D024004	S22	15:33	04/21/11	1.000
ID8D024005	S23	15:36	04/21/11	1.000
ID8D024006	S24	15:39	04/21/11	1.000
ID8D024007	S25	15:42	04/21/11	1.000
ID8D024008	S26	15:45	04/21/11	1.000
ID8D024009	S27	15:47	04/21/11	1.000
ID8D024010	S28	15:51	04/21/11	1.000
ID8D024011	S29	15:53	04/21/11	1.000
ID8D024012	S30	15:56	04/21/11	1.000
ID8D024013	S31	15:59	04/21/11	1.000
ID8D024014	ICV	16:02	04/21/11	1.000
ID8D024015	ICB	16:04	04/21/11	1.000
ID8D024016	MRLD2101	16:07	04/21/11	1.000
ID8D024017	MRLD2102	16:10	04/21/11	1.000
ID8D024018	ICSA1	16:13	04/21/11	1.000
ID8D024019	ICSAB1	16:16	04/21/11	1.000
ID8D024020	CCV1	16:19	04/21/11	1.000
ID8D024021	CCB1	16:22	04/21/11	1.000
ID8D024022	CCV2	16:26	04/21/11	1.000
ID8D024023	CCB2	16:29	04/21/11	1.000
ID8D024024	IPD041SB	16:32	04/21/11	1.000
ID8D024025	IPD041SL	16:35	04/21/11	1.000
ID8D024026	IPD041SC	16:38	04/21/11	1.000
ID8D024027	D192-11A	16:40	04/21/11	1.000
ID8D024028	D192-11	16:43	04/21/11	1.000
ID8D024029	D192-11J	16:45	04/21/11	5.000
ID8D024030	D192-11M	16:48	04/21/11	1.000
ID8D024031	D192-11S	16:51	04/21/11	1.000
ID8D024032	D192-01	16:53	04/21/11	1.000
ID8D024033	Blank	16:56	04/21/11	1.000
ID8D024034	CCV3	16:59	04/21/11	1.000
ID8D024035	CCB3	17:01	04/21/11	1.000
ID8D024036	D192-02	17:04	04/21/11	1.000
ID8D024037	D192-03	17:07	04/21/11	1.000
ID8D024038	D192-06	17:10	04/21/11	1.000
ID8D024039	D208-02	17:12	04/21/11	1.000
ID8D024040	D208-08	17:15	04/21/11	1.000
ID8D024041	D208-12	17:18	04/21/11	1.000
ID8D024042	D208-16	17:20	04/21/11	1.000
ID8D024043	Blank	17:23	04/21/11	1.000
ID8D024044	CCV4	17:26	04/21/11	1.000
ID8D024045	CCB4	17:28	04/21/11	1.000
ID8D024046	IPD038WB	17:31	04/21/11	1.000
ID8D024047	IPD038WL	17:34	04/21/11	1.000
ID8D024048	IPD038WC	17:37	04/21/11	1.000
ID8D024049	D170-17A	17:39	04/21/11	1.000
ID8D024050	D170-17	17:42	04/21/11	1.000
ID8D024051	D170-17J	17:45	04/21/11	5.000
ID8D024052	D170-17M	17:48	04/21/11	1.000
ID8D024053	D170-17S	17:50	04/21/11	1.000
ID8D024054	D192-04	17:53	04/21/11	1.000

ID8D024055	Blank	17:56	04/21/11	1.000
ID8D024056	CCV5	17:58	04/21/11	1.000
ID8D024057	CCB5	18:01	04/21/11	1.000
ID8D024058	IPD034WQ	18:04	04/21/11	1.000
ID8D024059	IPD034WX	18:07	04/21/11	1.000
ID8D024060	IPD034WY	18:09	04/21/11	1.000
ID8D024061	D122-04A	18:12	04/21/11	1.000
ID8D024062	D122-04W	18:15	04/21/11	1.000
ID8D024063	D122-04J	18:18	04/21/11	5.000
ID8D024064	D122-04G	18:21	04/21/11	1.000
ID8D024065	D122-04H	18:23	04/21/11	1.000
ID8D024066	D122-01W	18:26	04/21/11	1.000
ID8D024067	Blank	18:29	04/21/11	1.000
ID8D024068	CCV6	18:32	04/21/11	1.000
ID8D024069	CCB6	18:35	04/21/11	1.000
ID8D024070	D122-02W	18:38	04/21/11	1.000
ID8D024071	D122-03W	18:41	04/21/11	1.000
ID8D024072	D122-05W	18:44	04/21/11	1.000
ID8D024073	D122-06W	18:47	04/21/11	1.000
ID8D024074	Blank	18:50	04/21/11	1.000
ID8D024075	CCV7	18:53	04/21/11	1.000
ID8D024076	CCB7	18:55	04/21/11	1.000
ID8D024077	TXD006SB	18:58	04/21/11	1.000
ID8D024078	D462-02A	19:01	04/21/11	1.000
ID8D024079	D462-02	19:04	04/21/11	1.000
ID8D024080	D462-02J	19:07	04/21/11	5.000
ID8D024081	D462-02M	19:10	04/21/11	1.000
ID8D024082	D462-02S	19:12	04/21/11	1.000
ID8D024083	D462-03	19:15	04/21/11	1.000
ID8D024084	D462-07	19:18	04/21/11	1.000
ID8D024085	D462-08	19:21	04/21/11	1.000
ID8D024086	Blank	19:24	04/21/11	1.000
ID8D024087	CCV8	19:27	04/21/11	1.000
ID8D024088	CCB8	19:29	04/21/11	1.000
ID8D024089	D462-09	19:32	04/21/11	1.000
ID8D024090	D463-01	19:35	04/21/11	1.000
ID8D024091	D494-01	19:38	04/21/11	1.000
ID8D024092	D182-01	19:41	04/21/11	1.000
ID8D024093	D182-04	19:44	04/21/11	1.000
ID8D024094	D182-07	19:47	04/21/11	1.000
ID8D024095	Blank	19:49	04/21/11	1.000
ID8D024096	CCV9	19:52	04/21/11	1.000
ID8D024097	CCB9	19:55	04/21/11	1.000
ID8D024098	TXD007WB	19:58	04/21/11	1.000
ID8D024099	D462-01A	20:01	04/21/11	1.000
ID8D024100	D462-01	20:03	04/21/11	1.000
ID8D024101	D462-01J	20:06	04/21/11	5.000
ID8D024102	D462-06	20:09	04/21/11	1.000
ID8D024103	D462-06M	20:12	04/21/11	1.000
ID8D024104	D462-06S	20:15	04/21/11	1.000
ID8D024105	D462-10	20:17	04/21/11	1.000
ID8D024106	D478-01	20:20	04/21/11	1.000
ID8D024107	Blank	20:23	04/21/11	1.000
ID8D024108	CCV10	20:26	04/21/11	1.000
ID8D024109	CCB10	20:29	04/21/11	1.000
ID8D024110	WTD004SB	20:31	04/21/11	1.000
ID8D024111	D081-01A	20:34	04/21/11	5.000

ID8D024112	D081-01T	20:37	04/21/11	5.000
ID8D024113	D081-01J	20:40	04/21/11	25.00
ID8D024114	D081-01M	20:43	04/21/11	5.000
ID8D024115	D081-01S	20:46	04/21/11	5.000
ID8D024116	Blank	20:49	04/21/11	1.000
ID8D024117	CCV11	20:52	04/21/11	1.000
ID8D024118	CCB11	20:54	04/21/11	1.000
ID8D024119	IPD039SB	20:57	04/21/11	1.000
ID8D024120	IPD039SL	21:00	04/21/11	1.000
ID8D024121	IPD039SC	21:03	04/21/11	1.000
ID8D024122	D182-10A	21:05	04/21/11	1.000
ID8D024123	D182-10	21:08	04/21/11	1.000
ID8D024124	D182-10J	21:11	04/21/11	5.000
ID8D024125	D182-10M	21:13	04/21/11	1.000
ID8D024126	D182-10S	21:16	04/21/11	1.000
ID8D024127	D182-01	21:19	04/21/11	1.000
ID8D024128	Blank	21:21	04/21/11	1.000
ID8D024129	CCV12	21:24	04/21/11	1.000
ID8D024130	CCB12	21:27	04/21/11	1.000
ID8D024131	D182-02	21:30	04/21/11	1.000
ID8D024132	D182-03	21:32	04/21/11	1.000
ID8D024133	D182-04	21:35	04/21/11	1.000
ID8D024134	D182-05	21:38	04/21/11	1.000
ID8D024135	D182-06	21:41	04/21/11	1.000
ID8D024136	D182-07	21:43	04/21/11	1.000
ID8D024137	D182-08	21:46	04/21/11	1.000
ID8D024138	D182-09	21:49	04/21/11	1.000
ID8D024139	Blank	21:51	04/21/11	1.000
ID8D024140	CCV13	21:54	04/21/11	1.000
ID8D024141	CCB13	21:57	04/21/11	1.000
ID8D024142	IPD040SB	22:00	04/21/11	1.000
ID8D024143	IPD040SL	22:03	04/21/11	1.000
ID8D024144	IPD040SC	22:05	04/21/11	1.000
ID8D024145	D465-01A	22:08	04/21/11	1.000
ID8D024146	D465-01	22:11	04/21/11	1.000
ID8D024147	D465-01J	22:14	04/21/11	5.000
ID8D024148	D465-01M	22:17	04/21/11	1.000
ID8D024149	D465-01S	22:20	04/21/11	1.000
ID8D024150	D465-02	22:23	04/21/11	1.000
ID8D024151	Blank	22:26	04/21/11	1.000
ID8D024152	CCV14	22:29	04/21/11	1.000
ID8D024153	CCB14	22:31	04/21/11	1.000
ID8D024154	D465-03T	22:34	04/21/11	10.00
ID8D024155	D465-04T	22:37	04/21/11	10.00
ID8D024156	D465-05	22:40	04/21/11	1.000
ID8D024157	D465-06T	22:43	04/21/11	10.00
ID8D024158	D465-07	22:45	04/21/11	1.000
ID8D024159	D465-08	22:49	04/21/11	1.000
ID8D024160	D465-09T	22:52	04/21/11	10.00
ID8D024161	D465-10	22:54	04/21/11	1.000
ID8D024162	D465-11	22:57	04/21/11	1.000
ID8D024163	Blank	23:00	04/21/11	1.000
ID8D024164	CCV15	23:03	04/21/11	1.000
ID8D024165	CCB15	23:06	04/21/11	1.000
ID8D024166	D465-12T	23:09	04/21/11	10.00
ID8D024167	D465-13	23:12	04/21/11	1.000
ID8D024168	D465-14T	23:15	04/21/11	10.00

ID8D024169	D465-15	23:18	04/21/11	1.000
ID8D024170	D465-16	23:21	04/21/11	1.000
ID8D024171	D465-17	23:25	04/21/11	1.000
ID8D024172	D499-01	23:28	04/21/11	1.000
ID8D024173	D479-17T	23:31	04/21/11	10.00
ID8D024174	D479-18T	23:34	04/21/11	10.00
ID8D024175	Blank	23:37	04/21/11	1.000
ID8D024176	CCV16	23:40	04/21/11	1.000
ID8D024177	CCB16	23:43	04/21/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8D024 DATE : 04/21/11 INST : EMAX7

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	96	104	97	101	102	100	103	99	95	103	103	98	105	94	94	96	98	98	104	101	104	97	94	95	98	100	104
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	98	----	----	----	----	----	----	96	----	----	----	96	----	----	95	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	98	102	105	104	98	101	95	95	94	94	107	96	94	112	94	91	99	96	104	104	107	110	97	84	97	97	98	102
CCV1	104	102	104	98	99	99	98	101	98	98	102	100	97	105	93	93	99	98	97	102	100	104	98	93	101	98	99	105
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	103	105	98	100	101	100	103	100	97	102	102	96	104	94	94	97	96	97	103	101	104	98	95	100	98	100	104
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	104	102	104	99	100	100	99	102	98	98	103	100	98	105	93	94	99	98	97	102	100	104	98	93	101	98	99	105
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	101	105	99	101	98	100	102	98	99	102	99	99	105	95	95	100	99	97	102	99	105	98	94	101	99	98	107
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	101	104	99	101	97	99	102	97	99	101	99	99	105	95	95	100	99	97	101	98	104	98	93	102	99	97	107
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	104	101	105	99	100	99	101	102	99	99	102	100	99	105	94	94	99	99	97	102	100	104	98	94	101	99	98	107
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	103	100	104	100	101	97	100	102	97	100	101	98	101	106	95	94	101	100	97	100	98	105	98	93	102	100	97	108
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXD006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	100	103	101	101	97	98	101	96	100	102	98	100	105	94	94	102	100	97	100	99	105	98	92	102	99	97	107
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D463-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D494-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	103	101	104	99	100	98	100	101	98	99	101	99	99	105	94	94	100	99	97	101	99	105	99	94	101	99	98	106
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXD007WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D478-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	104	98	100	101	101	96	95	99	95	101	103	96	101	107	93	93	103	101	98	98	97	106	99	90	102	100	96	105
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTD004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D081-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	104	100	102	100	100	98	96	99	95	99	103	97	99	106	91	92	101	99	98	100	99	105	99	90	101	99	97	104
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	103	99	100	100	100	96	94	100	94	97	101	97	97	106	92	92	99	97	97	98	96	105	98	89*	101	99	97	103
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	104	101	104	100	101	98	100	102	98	99	102	100	99	106	95	94	100	99	99	101	99	106	99	94	102	99	98	106
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	104	101	104	99	99	99	99	102	99	97	101	101	97	105	94	92	98	97	98	101	100	105	97	94	101	98	99	104
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	104	99	102	100	100	97	97	101	96	98	101	99	99	106	94	93	100	99	99	99	98	106	98	92	102	100	98	106
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-14T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D465-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D499-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-17T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-18T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	102	98	100	99	99	97	95	99	95	97	100	98	98	105	92	91	99	97	98	97	97	105	97	90	101	98	97	103
CCB16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8D024 (SOIL) DATE : 04/21/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.9	.620	.170	.370	.220	6.28	.210	15.0	.330	.070	.510	22.7	.020	.430	9.99	.240	.660	.290	110	.180	.000	97.6	.080	.910	-.400	.450	.220	-.260
MRLD2101	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2102	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	6.21	-.100	1.45	.030	-.040	.740	----	-.090	-.350	1.22	----	2.03	6.02	----	1.55	-.760	.510	5.84	.290	.070	132	1.32	-.340	2.05	3.72	-.560	2.32
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	69.1	1.05	-.220	1.16	.590	8.21	.960	467	1.45	.430	2.40	21.1	.290	.730	34.8	1.11	1.58	1.23	122	.060	.260	77.9	.380	1.32	.120	.070	.840	13.3
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	25.5	.700	.250	.290	.140	6.71	.440	-6.09	.630	.210	.770	3.95	.300	-.600	7.58	.320	1.01	.460	66.6	.530	-.020	32.0	.000	.660	-.050	.120	.180	-.500
IPD041SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD041SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	35.8	.480	.440	.270	.260	6.38	.410	-2.21	.790	.100	1.03	10.6	.140	.950	14.0	.350	1.01	.580	93.2	-.320	.060	44.7	.090	.950	-.200	.380	.410	-.420
D192-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D208-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	5.45	.210	.600	.120	.120	4.89	.050	-11.6	.030	.040	.240	-1.06	-.170	.470	1.80	.140	.540	.070	71.6	.110	-.070	24.2	.030	.480	-.150	.180	.080	-.970
IPD038WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD038WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D170-17S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D192-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	7.27	.940	.550	.100	.080	5.44	.160	-11.2	.020	.100	.200	-.280	.230	.530	7.28	.130	.650	.040	72.5	.810	-.020	33.6	.050	.480	-.030	.020	.030	-.850
IPD034WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD034WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-04H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-01W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	8.04	.540	.460	.080	.070	6.45	.110	-5.67	.130	.070	.150	-2.59	-.150	.020	2.69	.180	.580	.060	83.0	.920	-.060	86.1	-.020	.450	.210	.090	.070	-.880
D122-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D122-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	32.9	.440	.410	.380	.230	6.07	.490	6.31	.610	.210	.750	7.00	.460	.340	11.1	.650	1.01	.560	107	1.44	.170	110	.070	.880	-.120	-.020	.270	.070
TXD006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	35.7	.200	.920	.500	.230	4.72	.470	22.9	.660	.270	.780	7.86	.970	-.220	.750	.290	1.24	.590	123	-.310	.010	167	.130	.450	.110	.150	.500	.750
D462-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D463-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D494-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	36.1	.400	-.290	.710	.240	5.51	.480	27.8	.600	.110	.970	8.54	.160	-.150	12.1	.400	1.08	.700	73.4	1.41	.040	102	.170	1.22	-.180	.000	.570	.780
TXD007WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D462-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D478-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	44.3	.810	.450	.700	.280	6.49	.580	21.7	.750	.340	1.06	9.59	.380	.390	7.58	.430	1.26	.620	145	.920	.020	225	.150	.950	.010	-.220	.520	.840
WTD004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D081-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D081-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	42.5	.800	.590	.570	.250	5.66	.560	20.3	.900	.300	1.08	8.73	.660	.720	8.64	.380	1.20	.720	158	.480	.040	306	.190	1.01	.110	.300	.580	.590
IPD039SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD039SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	37.5	.480	.790	.680	.250	5.92	.510	18.1	.780	.260	1.02	8.62	.610	-.180	5.23	.400	1.15	.610	98.8	.270	.130	124	.110	1.17	.180	-.320	.500	.910
D182-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	5.82	.870	-.550	.500	.070	4.93	.070	10.2	-.040	.110	.030	.820	-.070	-.500	5.18	.150	.550	-.040	58.3	.700	-.070	70.8	.090	.450	.070	-.260	.110	.120
IPD040SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPD040SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	5.14	-.020	.010	.330	.090	5.50	.110	9.71	-.060	.110	.040	-.330	.070	.190	2.71	.150	.630	.120	90.7	.080	-.180	75.6	.080	.530	.080	.060	.080	.450
D465-03T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-04T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-06T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-09T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	31.9	-.270	.350	1.46	1.12	5.47	.240	58.3	.600	.200	.700	6.53	.500	.460	42.3	1.94	.710	.330	124	1.12	.000	110	.320	.560	.220	.150	.440	2.52
D465-12T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-14T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

D465-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D465-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D499-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-17T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D479-18T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB16	7.25	.190	.990	.260	.070	5.19	.080	4.15	.050	.070	.210	6.37	.070	.600	3.57	.120	.620	.520	53.1	.030	.020	65.1	.050	.610	-.240	-.190	.010	.210

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8D024001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8D024002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8D024003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8D024004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8D024005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8D024006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8D024007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8D024008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8D024009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8D024010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8D024011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8D024012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8D024013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8D024014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8D024015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLD2101		ID8D024016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLD2102		ID8D024017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8D024018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8D024019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8D024020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8D024021			1	☒	3XIDL	None
22	7	2	7	1	QC	CCV2		ID8D024022			1	☒	CCV	None
23	8	2	8	1	QC	CCB2		ID8D024023			1	☒	3XIDL	None
24	9	2	9	1	QC	IPD041SB		ID8D024024			1	☒	1/2LOQ	None
25	10	2	10	1	QC	IPD041SL		ID8D024025			1	☒	LCS	None
26	11	2	11	1	QC	IPD041SC		ID8D024026			1	☒	LCS	None
27	12	2	12	1	Unk	D192-11A		ID8D024027			1	☒	unk	---
28	13	2	1	2	Unk	D192-11		ID8D024028			1	☒	unk	---
29	14	2	2	2	Unk	D192-11J		ID8D024029			1	☒	unk	---
30	15	2	3	2	Unk	D192-11M		ID8D024030			1	☒	unk	---
31	16	2	4	2	Unk	D192-11S		ID8D024031			1	☒	unk	---
32	17	2	5	2	Unk	D192-01		ID8D024032			1	☒	unk	---
33	18	2	6	2	Blank	Blank		ID8D024033			1	☐		---
34	19	2	7	2	QC	CCV3		ID8D024034			1	☒	CCV	None
35	20	2	8	2	QC	CCB3		ID8D024035			1	☒	LOD	None
36	21	2	9	2	Unk	D192-02		ID8D024036			1	☒	unk	---
37	22	2	10	2	Unk	D192-03		ID8D024037			1	☒	unk	---
38	23	2	11	2	Unk	D192-06		ID8D024038			1	☒	unk	---
39	24	2	12	2	Unk	D208-02		ID8D024039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	25	2	1	3	Unk	D208-08		ID8D024040			1	☒	unk	---
41	26	2	2	3	Unk	D208-12		ID8D024041			1	☒	unk	---
42	27	2	3	3	Unk	D208-16		ID8D024042			1	☒	unk	---
43	28	2	4	3	Blank	Blank		ID8D024043			1	☐		---
44	29	2	5	3	QC	CCV4		ID8D024044			1	☒	CCV	None
45	30	2	6	3	QC	CCB4		ID8D024045			1	☒	3XIDL	None
46	31	2	7	3	QC	IPD038WB		ID8D024046			1	☒	1/2LOQ	None
47	32	2	8	3	QC	IPD038WL		ID8D024047			1	☒	LCS	None
48	33	2	9	3	QC	IPD038WC		ID8D024048			1	☒	LCS	None
49	34	2	10	3	Unk	D170-17A		ID8D024049			1	☒	unk	---
50	35	2	11	3	Unk	D170-17		ID8D024050			1	☒	unk	---
51	36	2	12	3	Unk	D170-17J		ID8D024051			1	☒	unk	---
52	37	2	1	4	Unk	D170-17M		ID8D024052			1	☒	unk	---
53	38	2	2	4	Unk	D170-17S		ID8D024053			1	☒	unk	---
54	39	2	3	4	Unk	D192-04		ID8D024054			1	☒	unk	---
55	40	2	4	4	Blank	Blank		ID8D024055			1	☐		---
56	41	2	5	4	QC	CCV5		ID8D024056			1	☒	CCV	None
57	42	2	6	4	QC	CCB5		ID8D024057			1	☒	3XIDL	None
58	43	2	7	4	QC	IPD034WQ		ID8D024058			1	☒	1/2LOQ	None
59	44	2	8	4	QC	IPD034WX		ID8D024059			1	☒	LCS	None
60	45	2	9	4	QC	IPD034WY		ID8D024060			1	☒	LCS	None
61	46	2	10	4	Unk	D122-04A		ID8D024061			1	☒	unk	---
62	47	2	11	4	Unk	D122-04W		ID8D024062			1	☒	unk	---
63	48	2	12	4	Unk	D122-04J		ID8D024063			1	☒	unk	---
64	49	2	1	5	Unk	D122-04G		ID8D024064			1	☒	unk	---
65	50	2	2	5	Unk	D122-04H		ID8D024065			1	☒	unk	---
66	51	2	3	5	Unk	D122-01W		ID8D024066			1	☒	unk	---
67	52	2	4	5	Blank	Blank		ID8D024067			1	☐		---
68	53	2	5	5	QC	CCV6		ID8D024068			1	☒	CCV	None
69	54	2	6	5	QC	CCB6		ID8D024069			1	☒	3XIDL	None
70	55	2	7	5	Unk	D122-02W		ID8D024070			1	☒	unk	---
71	56	2	8	5	Unk	D122-03W		ID8D024071			1	☒	unk	---
72	57	2	9	5	Unk	D122-05W		ID8D024072			1	☒	unk	---
73	58	2	10	5	Unk	D122-06W		ID8D024073			1	☒	unk	---
74	59	2	11	5	Blank	Blank		ID8D024074			1	☐		---
75	60	2	12	5	QC	CCV7		ID8D024075			1	☒	CCV	None
76	61	3	1	1	QC	CCB7	Al, K, Na > LOD	ID8D024076			1	☒	LOD	None
77	62	3	2	1	QC	TXD006SB	TCLP	ID8D024077			1	☒	1/2LOQ	None
78	63	3	3	1	Unk	D462-02A	TCLP	ID8D024078			1	☒	unk	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	64	3	4	1	Unk	D462-02	TCLP	ID8D024079			1	☒	unk	---
80	65	3	5	1	Unk	D462-02J	TCLP	ID8D024080			1	☒	unk	---
81	66	3	6	1	Unk	D462-02M	TCLP	ID8D024081			1	☒	unk	---
82	67	3	7	1	Unk	D462-02S	TCLP	ID8D024082			1	☒	unk	---
83	68	3	8	1	Unk	D462-03	TCLP	ID8D024083			1	☒	unk	---
84	69	3	9	1	Unk	D462-07	TCLP	ID8D024084			1	☒	unk	---
85	70	3	10	1	Unk	D462-08	TCLP	ID8D024085			1	☒	unk	---
86	71	3	11	1	Blank	Blank		ID8D024086			1	☐	unk	---
87	72	3	12	1	QC	CCV8		ID8D024087			1	☒	CCV	None
88	73	3	1	2	QC	CCB8		ID8D024088			1	☒	3XIDL	None
89	74	3	2	2	Unk	D462-09	TCLP	ID8D024089			1	☒	unk	---
90	75	3	3	2	Unk	D463-01	TCLP	ID8D024090			1	☒	unk	---
91	76	3	4	2	Unk	D494-01	TCLP	ID8D024091			1	☒	unk	---
92	77	3	5	2	Unk	D182-01	dried & sieved	ID8D024092			1	☒	unk	---
93	78	3	6	2	Unk	D182-04	dried & sieved	ID8D024093			1	☒	unk	---
94	79	3	7	2	Unk	D182-07	dried & sieved	ID8D024094			1	☒	unk	---
95	80	3	8	2	Blank	Blank		ID8D024095			1	☐		---
96	81	3	9	2	QC	CCV9		ID8D024096			1	☒	CCV	None
97	82	3	10	2	QC	CCB9		ID8D024097			1	☒	3XIDL	None
98	83	3	11	2	QC	TXD007WB	TCLP	ID8D024098			1	☒	1/2LOQ	None
99	84	3	12	2	Unk	D462-01A	TCLP	ID8D024099			1	☒	unk	---
100	85	3	1	3	Unk	D462-01	TCLP	ID8D024100			1	☒	unk	---
101	86	3	2	3	Unk	D462-01J	TCLP	ID8D024101			1	☒	unk	---
102	87	3	3	3	Unk	D462-06	TCLP	ID8D024102			1	☒	unk	---
103	88	3	4	3	Unk	D462-06M	TCLP	ID8D024103			1	☒	unk	---
104	89	3	5	3	Unk	D462-06S	TCLP	ID8D024104			1	☒	unk	---
105	90	3	6	3	Unk	D462-10	TCLP	ID8D024105			1	☒	unk	---
106	91	3	7	3	Unk	D478-01	TCLP	ID8D024106			1	☒	unk	---
107	92	3	8	3	Blank	Blank		ID8D024107			1	☐		---
108	93	3	9	3	QC	CCV10	90% Tl	ID8D024108			1	☒	CCV	None
109	94	3	10	3	QC	CCB10		ID8D024109			1	☒	3XIDL	None
110	95	3	11	3	QC	WTD004SB	STLC Tl, Cr, Se, In	ID8D024110			1	☒	1/2LOQ	None
111	96	3	12	3	Unk	D081-01A	5X STLC YELLOW	ID8D024111			1	☒	unk	---
112	97	3	1	4	Unk	D081-01T	5X STLC YELLOW	ID8D024112			1	☒	unk	---
113	98	3	2	4	Unk	D081-01J	25X STLC YELLOW	ID8D024113			1	☒	unk	---
114	99	3	3	4	Unk	D081-01M	5X STLC YELLOW	ID8D024114			1	☒	unk	---
115	100	3	4	4	Unk	D081-01S	5X STLC YELLOW	ID8D024115			1	☒	unk	---
116	101	3	5	4	Blank	Blank		ID8D024116			1	☐		---
117	102	3	6	4	QC	CCV11		ID8D024117			1	☒	CCV	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	103	3	7	4	QC	CCB11		ID8D024118			1	☒	3XIDL	None
119	104	3	8	4	QC	IPD039SB		ID8D024119			1	☒	1/2LOQ	None
120	105	3	9	4	QC	IPD039SL		ID8D024120			1	☒	LCS	None
121	106	3	10	4	QC	IPD039SC		ID8D024121			1	☒	LCS	None
122	107	3	11	4	Unk	D182-10A	Zn7L1R2	ID8D024122			1	☒	unk	---
123	108	3	12	4	Unk	D182-10		ID8D024123			1	☒	unk	---
124	109	3	1	5	Unk	D182-10J		ID8D024124			1	☒	unk	---
125	110	3	2	5	Unk	D182-10M		ID8D024125			1	☒	unk	---
126	111	3	3	5	Unk	D182-10S		ID8D024126			1	☒	unk	---
127	112	3	4	5	Unk	D182-01		ID8D024127			1	☒	unk	---
128	113	3	5	5	Blank	Blank		ID8D024128			1	☐		---
129	114	3	6	5	QC	CCV12		ID8D024129			1	☒	CCV	None
130	115	3	7	5	QC	CCB12		ID8D024130			1	☒	3XIDL	None
131	116	3	8	5	Unk	D182-02		ID8D024131			1	☒	unk	---
132	117	3	9	5	Unk	D182-03		ID8D024132			1	☒	unk	---
133	118	3	10	5	Unk	D182-04		ID8D024133			1	☒	unk	---
134	119	3	11	5	Unk	D182-05		ID8D024134			1	☒	unk	---
135	120	3	12	5	Unk	D182-06	Zn7L1R	ID8D024135			1	☒	unk	---
136	121	4	1	1	Unk	D182-07		ID8D024136			1	☒	unk	---
137	122	4	2	1	Unk	D182-08		ID8D024137			1	☒	unk	---
138	123	4	3	1	Unk	D182-09		ID8D024138			1	☒	unk	---
139	124	4	4	1	Blank	Blank		ID8D024139			1	☐		---
140	125	4	5	1	QC	CCV13		ID8D024140			1	☒	CCV	None
141	126	4	6	1	QC	CCB13		ID8D024141			1	☒	3XIDL	None
142	127	4	7	1	QC	IPD040SB		ID8D024142			1	☒	1/2LOQ	None
143	128	4	8	1	QC	IPD040SL		ID8D024143			1	☒	LCS	None
144	129	4	9	1	QC	IPD040SC		ID8D024144			1	☒	LCS	None
145	130	4	10	1	Unk	D465-01A	Ca7L1R2	ID8D024145			1	☒	unk	---
146	131	4	11	1	Unk	D465-01		ID8D024146			1	☒	unk	---
147	132	4	12	1	Unk	D465-01J		ID8D024147			1	☒	unk	---
148	133	4	1	2	Unk	D465-01M		ID8D024148			1	☒	unk	---
149	134	4	2	2	Unk	D465-01S		ID8D024149			1	☒	unk	---
150	135	4	3	2	Unk	D465-02		ID8D024150			1	☒	unk	---
151	136	4	4	2	Blank	Blank		ID8D024151			1	☐		---
152	137	4	5	2	QC	CCV14		ID8D024152			1	☒	CCV	None
153	138	4	6	2	QC	CCB14		ID8D024153			1	☒	3XIDL	None
154	139	4	7	2	Unk	D465-03T	10X COLORED	ID8D024154			1	☒	unk	---
155	140	4	8	2	Unk	D465-04T	10X COLORED	ID8D024155			1	☒	unk	---
156	141	4	9	2	Unk	D465-05	Ca7L1R	ID8D024156			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	142	4	10	2	Unk	D465-06T	10X COLORED	ID8D024157			1	☒	unk	---
158	143	4	11	2	Unk	D465-07	Carlin	ID8D024158			1	☒	unk	---
159	144	4	12	2	Unk	D465-08		ID8D024159			1	☒	unk	---
160	145	4	1	3	Unk	D465-09T	10X COLORED	ID8D024160			1	☒	unk	---
161	146	4	2	3	Unk	D465-10	Carlin	ID8D024161			1	☒	unk	---
162	147	4	3	3	Unk	D465-11	↓	ID8D024162			1	☒	unk	---
163	148	4	4	3	Blank	Blank		ID8D024163			1	☐		---
164	149	4	5	3	QC	CCV15		ID8D024164			1	☒	CCV	None
165	150	4	6	3	QC	CCB15		ID8D024165			1	☒	3XIDL	None
166	151	4	7	3	Unk	D465-12T	10X COLORED	ID8D024166			1	☒	unk	---
167	152	4	8	3	Unk	D465-13	Carlin	ID8D024167			1	☒	unk	---
168	153	4	9	3	Unk	D465-14T	10X COLORED	ID8D024168			1	☒	unk	---
169	154	4	10	3	Unk	D465-15	Carlin	ID8D024169			1	☒	unk	---
170	155	4	11	3	Unk	D465-16	↓	ID8D024170			1	☒	unk	---
171	156	4	12	3	Unk	D465-17	± TH 4/22/11	ID8D024171			1	☒	unk	---
172	157	4	1	4	Unk	D499-01		ID8D024172			1	☒	unk	---
173	158	4	2	4	Unk	D479-17T	5X	ID8D024173			1	☒	unk	---
174	159	4	3	4	Unk	D479-18T	5X	ID8D024174			1	☒	unk	---
175	160	4	4	4	Blank	Blank		ID8D024175			1	☐		---
176	161	4	5	4	QC	CCV16		ID8D024176			1	☒	CCV	None
177	162	4	6	4	QC	CCB16		ID8D024177			1	☒	3XIDL	None

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ID8D024 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00134	.00002	-.00001	.00023	.00006	.00014	-.00004	.00051	.00001	-.00122	Blank
2	S20					.87756		.14054				S20
3	S21					8.6782		1.3387				S21
4	S22				.48330						.19567	S22
5	S23				4.7904						2.0079	S23
6	S24						.10371					S24
7	S25						1.0824					S25
8	S26	.29713							.93246	.15460		S26
9	S27	10.552							8.4815	1.5086		S27
10	S28		.00612									S28
11	S29		.05966									S29
12	S30			.00151								S30
13	S31			.00610								S31
14	ICV	105.10	1.4449	1.0396	1.9417	1.5145	2.5476	2.0062	77.142	2.4830	.95110	ICV
15	ICB	.01591	.00062	.00017	.00037	.00022	.00628	.00021	.01500	.00033	.00007	ICB
16	MRLD2101	.21807	.10033	.01060	.01047	.01020	.01460*	.01053	1.0460	.01032	.00938	MRLD2101
17	MRLD2102	.21909	.04736	.00923	.00534	.00407	.09913	.00521	.52446	.00991	.00940	MRLD2102
18	ICSA1	392.28	.00621	-.00010	.00145	.00003	-.00004	.00074	478.95	-.00009	-.00035	ICSA1
19	ICSAB1	391.66	1.0216	1.0480	.51773	.49191	.50334	.94591	472.61	.46985	.46962	ICSAB1
20	CCV1	103.77	1.5269	1.0420	1.9634	1.4874	2.4859	1.9637	76.107	2.4393	.97697	CCV1
21	CCB1	.06913*	.00105	-.00022	.00116	.00059*	.00821*	.00096*	.46666*	.00145*	.00043	CCB1
22	CCV2	104.69	1.5412	1.0532	1.9616	1.4943	2.5186	1.9997	76.942	2.4890	.96558	CCV2
23	CCB2	.02549	.00070	.00025	.00029	.00014	.00671*	.00044	-.00609	.00063	.00021	CCB2
24	IPD041SB	.00293	-.00004	-.00128	.00015	-.00001	.00229	.00005	-.01910	-.00002	-.00003	IPD041SB
25	IPD041SL	5.0113	2.3335	.48248	.49311	.50961	.45138	.49101	50.796	.48621	.49127	IPD041SL
26	IPD041SC	4.9576	2.2952	.48138	.48907	.50678	.45088	.48927	49.701	.48839	.49099	IPD041SC
27	D192-11A	36.186	2.3714	.55867	.72933	.52897	.52572	.54418	68.210	1.5139	.53651	D192-11A
28	D192-11	30.453	.00227	.04769	.22311	.00169	.05975	.04692	17.407	1.0371	.02383	D192-11
29	D192-11J	6.4828	-.00022	.01005	.04613	.00044	.01389	.01003	3.6704	.21713	.00479	D192-11J
30	D192-11M	42.847	2.9859	.54870	.71132	.51205	.52234	.52839	70.069	1.5113	.52225	D192-11M
31	D192-11S	39.999	2.2459	.53215	.69228	.50002	.51647	.51178	69.230	1.4705	.50612	D192-11S
32	D192-01	37.705	.00108	.04102	.36407	.00210	.09404	.04626	29.051	.47012	.02715	D192-01
33	Blank	.01080	.00002	-.00017	.00057	.00023	.00149	.00007	.03652	.00009	.00000	Blank
34	CCV3	104.34	1.5255	1.0416	1.9728	1.4942	2.4942	1.9732	76.236	2.4582	.97975	CCV3
35	CCB3	.03576*	.00048	.00044	.00027	.00026	.00638	.00041	-.00221	.00079	.00010	CCB3
36	D192-02	16.857	-.01877	.02267	.12715	.00117	.04667	.09661	14.268	3.5151	.01490	D192-02
37	D192-03	25.771	.00107	.02895	.21827	.00147	.04994	.02174	17.647	.27943	.01647	D192-03
38	D192-06	33.803	-.00679	.04508	.25089	.00170	.08154	.07764	18.130	1.6216	.02224	D192-06
39	D208-02	41.104	-.00781	.04274	.28152	.00208	.11223	.08027	20.354	2.0771	.02749	D208-02
40	D208-08	38.147	-.00595	.03506	.43331	.00213	.06420	.08836	33.315	1.5233	.02782	D208-08
41	D208-12	33.187	.00020	.02274	.35317	.00183	.04545	.03218	29.421	.38981	.02263	D208-12
42	D208-16	34.190	-.00097	.04349	.27679	.00182	.05711	.06008	24.274	.49738	.02783	D208-16
43	Blank	.01101	.00001	.00009	.00039	.00001	.00027	.00003	.00113	.00019	-.00007	Blank
44	CCV4	104.14	1.5207	1.0503	1.9882	1.5123	2.4516	2.0059	76.741	2.4437	.99136	CCV4
45	CCB4	.00545	.00021	.00060	.00012	.00012	.00489	.00005	-.01158	.00003	.00004	CCB4
46	IPD038WB	.00388	-.00044	-.00103	.00008	.00001	.00273	-.00005	-.01301	.00003	.00004	IPD038WB
47	IPD038WL	5.5531	2.5203	.53321	.50206	.52329	.52405	.52938	51.203	.51289	.49210	IPD038WL
48	IPD038WC	5.5138	2.4917	.52928	.49747	.51883	.52256	.52622	50.466	.51469	.48572	IPD038WC
49	D170-17A	5.6537	2.5054	.53942	.50230	.52562	.53000	.53751	51.949	.53226	.49183	D170-17A
50	D170-17	.00530	.00441	.00049	.00011	.00008	.00271	.00012	.00160	.01080	.00008	D170-17
51	D170-17J	-.00031	.00055	-.00026	.00001	.00004	.00090	.00002	-.00841	.00206	.00005	D170-17J
52	D170-17M	5.3939	2.4281	.51380	.48945	.51138	.50797	.51446	49.970	.50062	.48649	D170-17M
53	D170-17S	5.0493	2.4359	.48100	.46175	.48074	.50371	.47985	49.783	.46193	.45405	D170-17S
54	D192-04	.01228	.00118	-.00011	.00028	.00008	.05677	.00004	.11837	.00012	.00007	D192-04

7 1 9 5

55	Blank	.00155	.00015	.00046	.00023	-.00001	.00083	.00001	-.00388	-.00006	.00013	Blank
56	CCV5	103.57	1.5123	1.0394	1.9821	1.5108	2.4372	1.9860	76.714	2.4207	.99097	CCV5
57	CCB5	.00727	.00094	.00055	.00010	.00008	.00544	.00016	-.01123	.00002	.00010	CCB5
58	IPD034WQ	.00160	-.00038	.00056	.00004	-.00001	.00200	.00002	-.01589	-.00009	.00000	IPD034WQ
59	IPD034WX	5.4643	2.4764	.52692	.49410	.51710	.51936	.52569	50.822	.51020	.48542	IPD034WX
60	IPD034WY	5.5052	2.4837	.52402	.49222	.51568	.51793	.52335	50.794	.50798	.48391	IPD034WY
61	D122-04A	6.0527	2.5713	.63938	.79797	.52420	.80711	.51666	221.09	.51013	.49647	D122-04A
62	D122-04W	.30355	.00171	.08852	.30098	.00003	.28009	.00001	179.93	.00142	-.00029	D122-04W
63	D122-04J	.06207	.00047	.01738	.06183	.00001	.05492	-.00006	37.836	.00038	-.00008	D122-04J
64	D122-04G	5.8599	2.4935	.62300	.80143	.51277	.78923	.50092	226.30	.49062	.48785	D122-04G
65	D122-04H	5.9522	2.4674	.61192	.79250	.50842	.80048	.49171	222.76	.49034	.48441	D122-04H
66	D122-01W	.15444	.00130	.08499	.39568	.00001	.28138	.00002	183.81	.00100	-.00033	D122-01W
67	Blank	.00093	.00044	.00037	.00036	.00002	.00186	.00002	.01445	-.00012	-.00005	Blank
68	CCV6	103.86	1.5203	1.0511	1.9799	1.5056	2.4741	2.0172	76.472	2.4658	.98974	CCV6
69	CCB6	.00804	.00054	.00046	.00008	.00007	.00645*	.00011	-.00567	.00013	.00007	CCB6
70	D122-02W	.01855	-.00135	.03035	.60491	-.00003	.27536	-.00004	391.48	.00087	.00129	D122-02W
71	D122-03W	.02074	-.00061	.07183	.40824	-.00004	.23718	-.00005	207.04	.00119	-.00045	D122-03W
72	D122-05W	.02202	-.00132	.07396	.53363	-.00002	.32093	.00002	172.81	.00113	-.00049	D122-05W
73	D122-06W	.16528	-.00065	.08411	.41090	-.00004	.28283	-.00003	189.35	.00102	-.00054	D122-06W
74	Blank	.00201	-.00020	-.00019	.00036	.00000	.00100	.00000	.02436	-.00002	.00006	Blank
75	CCV7	103.15	1.5019	1.0369	1.9998	1.5214	2.4195	2.0016	76.206	2.4143	1.0041	CCV7
76	CCB7	.03293	.00044	.00041	.00038	.00023	.00607	.00049	.00631	.00061	.00021	CCB7
77	TXD006SB	.01751	-.00043	-.00165	.00117	.00003	.00469	-.00005	-.00057	.00038	-.00020	TXD006SB
78	D462-02A	5.6632	2.5231	.56048	.75280	.52351	.69118	.52917	51.756	.50660	.50916	D462-02A
79	D462-02	.04021	.00540	-.00146	.25702	.00005	.16923	.00136	1.7131	.00063	.00036	D462-02
80	D462-02J	.00833	.00015	.00087	.05003	.00004	.03235	.00023	.32063	.00005	-.00007	D462-02J
81	D462-02M	5.6349	2.5481	.55224	.67025	.51234	.59239	.51230	50.482	.49745	.50343	D462-02M
82	D462-02S	5.5361	2.5452	.55699	.64973	.51384	.58213	.52788	51.439	.50540	.49232	D462-02S
83	D462-03	.09884	.00397	-.00171	.66333	.00009	.25025	.07257	83.716	.00388	.00060	D462-03
84	D462-07	.27461	.00415	-.00042	.35258	.00009	.18934	.00052	10.659	.00037	.00025	D462-07
85	D462-08	.04300	-.00068	.00050	.34039	.00000	.13069	.00099	14.119	.00029	.00005	D462-08
86	Blank	.00028	-.00066	.00076	.00037	.00000	.00072	-.00001	-.00395	-.00007	.00003	Blank
87	CCV8	103.56	1.4943	1.0279	2.0237	1.5117	2.4324	1.9678	75.709	2.4089	1.0047	CCV8
88	CCB8	.03565	.00020	.00092	.00050	.00023	.00472	.00047	.02295	.00066	.00027	CCB8
89	D462-09	.34217	.03467	.00062	.72442	.00004	.16573	.00015	3.9442	.00021	-.00008	D462-09
90	D463-01	.04762	-.00112	-.00096	.33632	.00000	.25722	.00002	19.774	.00041	.00041	D463-01
91	D494-01	.01350	-.00097	-.00070	.40762	-.00001	.13967	.00120	122.29	.00051	.01482	D494-01
92	D182-01	73.543	.01033	.06996	.85177	.00564	.00882	.12747	31.276	.14709	.04443	D182-01
93	D182-04	84.759	.01298	.09473	1.2130	.00853	.01851	.26767	67.111	.17349	.10168	D182-04
94	D182-07	66.152	.02937	.06285	.85143	.00515	.00915	.29618	74.055	.11902	.03733	D182-07
95	Blank	.02497	-.00025	.00003	.00062	.00001	.00039	.00004	.03517	-.00012	.00002	Blank
96	CCV9	103.43	1.5167	1.0436	1.9851	1.5066	2.4549	1.9977	76.028	2.4448	.98576	CCV9
97	CCB9	.03614*	.00040	-.00029	.00071	.00024	.00551	.00048	.02782	.00060	.00011	CCB9
98	TXD007WB	.00432	-.00026	.00135	.00017	-.00002	.00258	-.00001	-.00788	-.00013	.00003	TXD007WB
99	D462-01A	5.8076	2.4855	.53723	.78288	.53553	.73417	.55729	52.512	.51913	.50358	D462-01A
100	D462-01	.06796	.00466	-.00003	.27656	.00006	.20191	.02644	.49832	.00046	.00056	D462-01
101	D462-01J	.01345	.00028	-.00014	.05658	-.00003	.04146	.00534	.17498	-.00006	.00028	D462-01J
102	D462-06	.04158	-.00032	.00064	.33945	-.00007	.11257	-.00022	73.131	.01374	.00005	D462-06
103	D462-06M	5.5529	2.4478	.52229	.84038	.49448	.63206	.47123	119.29	.48140	.47597	D462-06M
104	D462-06S	5.9528	2.6194	.56047	.90641	.53028	.68273	.50693	131.09	.51731	.51151	D462-06S
105	D462-10	.20361	.00174	.00093	.23638	.00011	.24557	.00070	11.381	.00170	.00162	D462-10
106	D478-01	.06043	.01325	.02105	.23344	-.00001	2.8142	.61931	1.8389	.03562	.01927	D478-01
107	Blank	.00419	-.00022	-.00011	.00027	.00004	.00782	.00010	.00887	.00013	.00000	Blank
108	CCV10	103.73	1.4756	1.0042	2.0233	1.5148	2.4039	1.9050	74.293	2.3637	1.0130	CCV10
109	CCB10	.04432*	.00081	.00045	.00070	.00028	.00649*	.00058*	.02169	.00075	.00034	CCB10
110	WTD004SB	.04784	-.00609	.00246	.59144*	.00006	.18304*	.00005	.24057	.00611*	.00018	WTD004SB
111	D081-01A	7.2961	2.5656	.57935	.59517	.52318	.59159	.50661	223.94	.56657	.52717	D081-01A

112	D081-01T	1.4390	.00856	.00583	.07459	.00000	.05425	-.00050	173.78	.05528	.00148	D081-01T
113	D081-01J	.28539	.00155	.00136	.01513	.00003	.01167	-.00050	36.346	.01169	.00019	D081-01J
114	D081-01M	2.7816	.52296	.11942	.11798	.10354	.17209	.09973	198.32	.16531	.10420	D081-01M
115	D081-01S	2.6932	.51844	.11452	.11621	.10205	.16812	.09816	188.07	.16033	.10371	D081-01S
116	Blank	.00235	-.00049	-.00027	.00003	.00000	.00071	.00000	.02271	-.00012	.00001	Blank
117	CCV11	104.28	1.5049	1.0231	2.0034	1.4929	2.4437	1.9148	74.342	2.3814	.99278	CCV11
118	CCB11	.04248*	.00080	.00059	.00057	.00025	.00566	.00056*	.02028	.00090	.00030	CCB11
119	IPD039SB	-.00153	-.00082	.00054	-.00004	-.00003	.00135	.00003	-.01981	-.00014	.00013	IPD039SB
120	IPD039SL	5.0970	2.3683	.48777	.50360	.51032	.46620	.48412	50.169	.48978	.49892	IPD039SL
121	IPD039SC	5.0477	2.3382	.47949	.49668	.50599	.45959	.47627	49.343	.48467	.49042	IPD039SC
122	D182-10A	76.876	2.3247	.54403	1.3495	.52002	.46992	.69525	98.362	.63829	.54383	D182-10A
123	D182-10	73.465	.01255	.05396	.86762	.00652	.01093	.24378	50.959	.16836	.04398	D182-10
124	D182-10J	15.418	.00156	.01204	.17783	.00136	.00300	.05154	10.615	.03489	.00865	D182-10J
125	D182-10M	115.62	1.9416	.54562	1.4855	.51653	.43864	.71528	100.28	.68137	.54375	D182-10M
126	D182-10S	123.77	1.9450	.54407	1.6000	.50846	.43606	.71609	113.63	.68276	.53925	D182-10S
127	D182-01	52.924	.01088	.05594	.61607	.00447	.02438	.10766	28.371	.15959	.03366	D182-01
128	Blank	.03806	-.00028	-.00002	.00121	.00021	.00084	.00007	.07503	.00005	.00007	Blank
129	CCV12	103.05	1.4879	.99953	2.0020	1.4963	2.4019	1.8790	74.662	2.3443	.97274	CCV12
130	CCB12	.03755*	.00048	.00079	.00068	.00025	.00592	.00051*	.01811	.00078	.00026	CCB12
131	D182-02	79.279	.00787	.07105	.88683	.00593	.00851	.02389	19.829	.16414	.03280	D182-02
132	D182-03	66.564	.00622	.06489	.94098	.00511	.00404	.02527	16.204	.14808	.04575	D182-03
133	D182-04	90.412	.01056	.07487	1.1854	.00800	.02439	.13260	57.150	.17427	.05880	D182-04
134	D182-05	85.941	.00763	.06999	1.2217	.00768	.01095	.15681	46.617	.15706	.06245	D182-05
135	D182-06	45.522	.02775	.04955	.48591	.00356	.00871	.35031	92.153	.07648	.02767	D182-06
136	D182-07	68.728	.02727	.06057	.82126	.00496	.00847	.39032	84.284	.10954	.03688	D182-07
137	D182-08	63.563	.00345	.04845	1.1686	.00613	.01053	.01515	19.880	.20571	.08047	D182-08
138	D182-09	86.037	.00525	.07611	1.2279	.00760	.01182	.00686	15.502	.26336	.09974	D182-09
139	Blank	.04055	-.00135	.00000	.00047	-.00002	.00003	.00004	.01087	-.00002	.00013	Blank
140	CCV13	104.14	1.5128	1.0438	1.9990	1.5123	2.4592	2.0073	76.405	2.4594	.98804	CCV13
141	CCB13	.00582	.00087	-.00055	.00050	.00007	.00493	.00007	.01021	-.00004	.00011	CCB13
142	IPD040SB	.00498	.00036	-.00175	.00019	.00005	.00186	-.00008	-.00750	.00049	-.00001	IPD040SB
143	IPD040SL	5.0878	2.3462	.49477	.50283	.51788	.45883	.50160	50.779	.50057	.49918	IPD040SL
144	IPD040SC	5.1321	2.3644	.50001	.50448	.51933	.46266	.50702	52.043	.50457	.50305	IPD040SC
145	D465-01A	91.423	2.4982	.53280	1.2325	.50454	.56859	.46173	1192.8*	.55203	.50767	D465-01A
146	D465-01	89.348	.00497	.00227	.75364	.00083	.07121	.00343	1210.5*	.08137	.00860	D465-01
147	D465-01J	17.773	.00184	.00090	.14933	.00036	.01528	.00052	267.79	.01709	.00169	D465-01J
148	D465-01M	116.27	2.0645	.21880	1.4985	.48433	.58182	.44105	1552.6*	.55188	.48943	D465-01M
149	D465-01S	117.02	2.0380	.23109	1.4801	.50204	.59262	.45292	1557.7*	.57807	.50465	D465-01S
150	D465-02	95.331	.00819	.00069	.37247	.00094	.01400	.00844	146.98	.06692	.02362	D465-02
151	Blank	.02113	-.00055	.00027	.00053	.00008	.00118	.00006	.41288	-.00004	.00008	Blank
152	CCV14	104.10	1.5213	1.0431	1.9712	1.4916	2.4867	1.9887	76.382	2.4628	.97023	CCV14
153	CCB14	.00514	-.00002	.00001	.00033	.00009	.00550	.00011	.00971	-.00006	.00011	CCB14
154	D465-03T	8.0386	.00156	.00921	.03943	.00014	.01002	-.00043	4.0363	.03873	.01394	D465-03T
155	D465-04T	8.0608	.00302	.00558	.03826	.00013	.00463	-.00068	4.0010	.04597	.00375	D465-04T
156	D465-05	64.061	.00896	.04832	.23374	.00095	.50951	.07726	1912.3*	.21059	.02276	D465-05
157	D465-06T	6.1153	.00508	.00159	.01915	.00007	.02931	.00460	51.588	.01278	.29026	D465-06T
158	D465-07	118.76	-.00725	.00650	.75579	.00113	.15111	.01591	1907.6*	.18261	.03682	D465-07
159	D465-08	117.83	.00267	.00250	.35646	.00083	.03799	.00544	547.16	.19307	.01593	D465-08
160	D465-09T	12.431	-.01237	1.5972	.03813	.00013	.00305	-.00024	5.8586	1.2105	.00938	D465-09T
161	D465-10	101.44	.00784	.00498	.88429	.00084	.17976	.00302	1158.4*	.15115	.00832	D465-10
162	D465-11	115.29	.00213	.00373	.97796	.00117	.09838	.00344	1621.7*	.13062	.01492	D465-11
163	Blank	.04007	-.00049	-.00001	.00036	-.00004	.00028	-.00001	.52913	-.00009	-.00002	Blank
164	CCV15	104.49	1.4860	1.0178	2.0048	1.5064	2.4330	1.9484	76.044	2.4099	.98291	CCV15
165	CCB15	.03193	-.00027	.00035	.00146	.00112*	.00547	.00024	.05835	.00060	.00020	CCB15
166	D465-12T	3.8291	.00390	.00607	.03434	.00008	.00129	-.00125	1.3695	.06028	.00463	D465-12T
167	D465-13	101.87	.00357	.00678	.50326	.00087	.06367	.00452	1068.3*	.16550	.01240	D465-13
168	D465-14T	5.0391	.00290	.00663	.02230	.00011	.00209	-.00127	2.0828	.05241	.00353	D465-14T

169	D465-15	108.00	-.00061	.00961	4.6061	.00114	1.1630	.00403	1890.2*	.15800	.01854	D465-15
170	D465-16	107.82	.00444	.00927	5.4992	.00073	.07985	.00734	1285.8*	.26154	.00866	D465-16
171	D465-17	134.28	.01571	.01638	.09118	.00078	.14428	.00209	452.24	.06929	.89395	D465-17
172	D499-01	49.588	.15970	.02391	54.386*	-.00225	.04661	.04850	671.14	5.2100	2.2803	D499-01
173	D479-17T	19.451	-.00128	.00089	.03016	.00013	.03160	.00025	227.10	.00899	.07281	D479-17T
174	D479-18T	12.204	-.00181	-.00067	.02640	.00009	.02974	.00022	271.58	.00411	.09473	D479-18T
175	Blank	.00529	-.00171	.00024	.00028	-.00004	.00014	-.00001	.03743	-.00024	.00008	Blank
176	CCV16	102.17	1.4662	1.0033	1.9798	1.4809	2.4158	1.9064	74.539	2.3860	.97376	CCV16
177	CCB16	.00725	.00019	.00099	.00026	.00007	.00519	.00008	.00415	.00005	.00007	CCB16
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00155	.00001	.00006	-.00009	.00000	.00002	-.00003	-.00069	-.00022	.00000	Blank
2	S20			.24104			.11593					S20
3	S21			2.4011			1.1552					S21
4	S22	.36832	.06459									S22
5	S23	3.4840	2.4217									S23
6	S24							.94934				S24
7	S25							9.6501				S25
8	S26								.99358	.32012		S26
9	S27								9.4497	3.1876		S27
10	S28					.11120						S28
11	S29					.45277						S29
12	S30				.02698						.00167	S30
13	S31				.13305						.00664	S31
14	ICV	2.5778	25.732	2.4445	.52417	56.447	2.3436	2.3992	2.4451	58.944	1.0359	ICV
15	ICB	.00051	.02269	.00002	.00043	.00999	.00024	.00066*	.00029	.10964	.00018	ICB
16	MRLD2101	.01071	.22523	.01014	.01046	.96109	.01008	.00992	.00999	.99654	.00996	MRLD2101
17	MRLD2102	.01058	.10882	.00235*	.10108	.19931	.00494	.00920	.00997	.98950	.01025	MRLD2102
18	ICSA1	.00122	192.80	.00203	.00602	189.39	.00155	-.00076	.00051	.00584	.00029	ICSA1
19	ICSAB1	.53654	192.21	.94035	1.1151	187.51	.45470	.99031	.95835	78.128	1.0393	ICSAB1
20	CCV1	2.5532	25.068	2.4356	.52336	55.630	2.3210	2.4666	2.4434	57.909	1.0193	CCV1
21	CCB1	.00240*	.02109	.00029	.00073	.03482	.00111*	.00158*	.00123*	.12231	.00006	CCB1
22	CCV2	2.5513	25.419	2.4110	.52128	56.209	2.3395	2.4365	2.4107	58.284	1.0269	CCV2
23	CCB2	.00077	.00395	.00030	-.00060	.00758	.00032	.00101*	.00046	.06665	.00053	CCB2
24	IPD041SB	.00005	.00117	.00006	-.00181	-.00805	.00001	.00015	.00012	.02404	.00031	IPD041SB
25	IPD041SL	.49889	5.0528	.49760	-.00010*	47.617	.48200	.51830	.44590	48.252	.47195	IPD041SL
26	IPD041SC	.50011	5.0129	.49839	.00014*	46.959	.47903	.51397	.44541	47.251	.47261	IPD041SC
27	D192-11A	.77424	75.918	.58291	.04953	66.864	.99969	.54619	.60296	59.792	.49505	D192-11A
28	D192-11	.25399	72.907	.06623	.04822	18.406	.51644	.01697	.13237	10.374	.00253	D192-11
29	D192-11J	.05260	15.494	.01389	.01001	3.8600	.10839	.00325	.02642	2.1192	-.00010	D192-11J
30	D192-11M	.77367	81.473	.57320	.05440	67.358	1.0036	.55110	.58222	59.310	.48697	D192-11M
31	D192-11S	.77532	74.186	.67711	.05103	65.398	.95048	.52922	.56820	58.124	.47444	D192-11S
32	D192-01	.32954	82.832	.07501	.06058	23.700	.72300	.01729	.12135	12.647	.00272	D192-01
33	Blank	.00015	.02162	-.00023	.00027	.02880	.00067	.00013	.00017	.07558	-.00033	Blank
34	CCV3	2.5655	25.006	2.4465	.52308	56.021	2.3397	2.4728	2.4519	58.205	1.0205	CCV3
35	CCB3	.00103	.01057	.00014	.00095	.01396	.00035	.00101	.00058	.09322	-.00032	CCB3
36	D192-02	.72569	51.034	.58597	.02677	13.025	.37613	.00470	.34366	5.9704	.00256	D192-02
37	D192-03	.13220	63.486	.04656	.04289	18.115	.45890	.01554	.06720	8.9228	.00240	D192-03
38	D192-06	.29350	76.962	.07631	.04786	19.684	.49602	.01512	.21746	11.425	.00429	D192-06
39	D208-02	.48348	90.116	.10198	.05748	25.590	.68165	.01802	.23609	14.310	.00193	D208-02
40	D208-08	.35144	90.936	.07081	.06171	23.101	.82461	.01295	.21520	11.958	.00354	D208-08
41	D208-12	.17663	72.186	.05171	.05377	22.739	.67420	.00846	.09341	10.490	.00211	D208-12
42	D208-16	.27386	82.265	.06353	.05548	20.100	.67972	.02171	.11641	10.668	.00333	D208-16
43	Blank	.00000	.02729	-.00029	-.00001	.00740	.00008	.00002	.00000	.02621	.00079	Blank
44	CCV4	2.5388	24.866	2.4818	.52602	57.096	2.3678	2.4997	2.4791	58.342	1.0188	CCV4
45	CCB4	.00024	-.00106	-.00017	.00047	.00180	.00014	.00054	.00007	.07163	.00011	CCB4
46	IPD038WB	.00018	.00247	-.00040	-.00033	.00370	.00016	.00028	-.00006	.03417	.00094	IPD038WB
47	IPD038WL	.53101	5.3272	.51100	.00084*	48.076	.49271	.50006	.44825	49.204	.52884	IPD038WL
48	IPD038WC	.52886	5.3389	.50505	.00046*	47.297	.48912	.49155	.44178	48.667	.52553	IPD038WC
49	D170-17A	.53836	5.4588	.51156	.00040	48.620	.49740	.49609	.46101	49.734	.53292	D170-17A
50	D170-17	.00082	.04797	.00032	-.00054	.00788	.00096	.00044	.00520	.08558	-.00052	D170-17
51	D170-17J	.00002	.00876	-.00048	-.00090	.00048	.00019	.00010	.00111	.04171	-.00049	D170-17J
52	D170-17M	.51850	5.1457	.50481	.00057	47.180	.48152	.49477	.44249	48.262	.51017	D170-17M
53	D170-17S	.48385	4.7872	.47068	.00102	47.133	.45132	.49537	.41381	48.186	.47554	D170-17S
54	D192-04	.00025	.01007	-.00005	.00000	.03596	.00018	.00026	.00018	.08593	.00094	D192-04

55	Blank	.00011	-.00075	-.00011	.00043	.00189	-.00014	.00003	-.00012	.03508	.00014	Blank
56	CCV5	2.5310	24.705	2.4793	.52537	56.876	2.3626	2.5007	2.4844	58.221	1.0081	CCV5
57	CCB5	.00020	-.00028	.00023	.00053	.00728	.00013	.00065*	.00004	.07249	.00081	CCB5
58	IPD034WQ	-.00009	-.00260	-.00023	-.00026	.00139	-.00009	.00011	.00006	.01347	.00057	IPD034WQ
59	IPD034WX	.52316	5.2720	.50289	.00053*	47.906	.48662	.49224	.44201	48.837	.51962	IPD034WX
60	IPD034WY	.52411	5.2495	.50199	-.00016*	47.789	.48512	.49248	.43929	48.685	.51604	IPD034WY
61	D122-04A	.54870	9.9608	.53924	.00476	91.694	3.7570	.54750	.45777	58.173	.54294	D122-04A
62	D122-04W	.00164	4.9700	.02885	.00500	44.401	3.4159	.03666	.00060	5.5183	-.00172	D122-04W
63	D122-04J	.00033	1.0320	.00538	.00111	9.2196	.71813	.00722	.00002	1.1174	.00067	D122-04J
64	D122-04G	.52722	9.9064	.52844	.00519	91.983	3.8503	.54457	.44220	57.006	.52355	D122-04G
65	D122-04H	.53110	9.9189	.52781	.00537	91.100	3.8174	.54444	.43890	57.432	.51734	D122-04H
66	D122-01W	.00178	6.6058	.03149	.00517	46.036	2.8815	.04142	.00083	5.1007	-.00051	D122-01W
67	Blank	.00006	-.00065	.00012	.00037	.00891	.00025	.00016	-.00010	.11833	-.00052	Blank
68	CCV6	2.5565	24.986	2.4813	.52402	56.586	2.3517	2.4875	2.4791	58.165	1.0179	CCV6
69	CCB6	.00015	-.00259	-.00015	.00002	.00269	.00018	.00058	.00006	.08295	.00092	CCB6
70	D122-02W	.00157	14.494	.03317	.03128	126.27	2.7267	.05268	.00333	8.7514	.00058	D122-02W
71	D122-03W	.00122	6.8869	.02997	.00677	51.706	3.8989	.03538	.00046	5.1499	-.00020	D122-03W
72	D122-05W	.00110	2.1165	.02865	.00451	40.768	3.2114	.04091	.00025	5.8987	-.00136	D122-05W
73	D122-06W	.00138	6.7197	.03057	.00500	47.983	2.9755	.04309	.00055	5.1892	-.00126	D122-06W
74	Blank	-.00003	.00083	.00019	.00018	.00155	.00053	.00003	-.00010	.08953	.00072	Blank
75	CCV7	2.5311	24.498	2.5150	.52879	56.946	2.3586	2.5307	2.5098	58.185	1.0045	CCV7
76	CCB7	.00075	.00700	.00046	.00034	.01107	.00065	.00101*	.00056	.10667	.00144	CCB7
77	TXD006SB	.00088	.00029	-.00038	.00051	.00270	.00016	.00066	-.00012	.21028	.00316	TXD006SB
78	D462-02A	.65270	5.4648	.52129	.01344	49.031	.51285	.52086	.52866	54.117	.57234	D462-02A
79	D462-02	.10990	.29988	.00447	.01302	1.8094	.02559	.00033	.06033	1.6333	.00229	D462-02
80	D462-02J	.02106	.05510	.00074	.00226	.34290	.00512	.00014	.01149	.40460	.00000	D462-02J
81	D462-02M	.67361	5.3630	.51226	.01537	47.295	.49881	.51901	.51847	53.900	.56997	D462-02M
82	D462-02S	.64485	5.4644	.50508	.01347	48.518	.50189	.50388	.50500	53.202	.56662	D462-02S
83	D462-03	.23628	.05190	.00374	.00368	.84912	.09800	.00114	.01957	1.4203	.00277	D462-03
84	D462-07	.00569	.03908	.00174	.00080	.81149	.00601	.00021	.00391	.97961	.00298	D462-07
85	D462-08	.00329	.03575	.00180	.00226	1.2458	.00781	.00021	.00307	1.1841	.00238	D462-08
86	Blank	.00013	.00189	.00032	-.00122	-.00444	.00010	-.00003	-.00012	.10722	.00033	Blank
87	CCV8	2.5437	24.412	2.5077	.52745	56.391	2.3390	2.5392	2.5103	58.232	.99871	CCV8
88	CCB8	.00078	.00786	.00097	-.00022	.00075	.00029	.00124*	.00059	.12289	-.00031	CCB8
89	D462-09	.00236	.00984	.00001	.00769	.25171	.00264	.00057	.00102	.66150	.00205	D462-09
90	D463-01	.00241	.21276	.00120	.00100	3.1819	.10477	.00033	.00422	2.3924	.00306	D463-01
91	D494-01	1.4953	-.00595	.00730	.02293	13.871	1.1728	.00072	2.8042	5.2071	.00170	D494-01
92	D182-01	.08147	151.18	1.1146	.03513	8.8083	2.4520	.00654	.07065	5.2015	.00680	D182-01
93	D182-04	.42870	150.11	1.1351	.04289	23.760	4.5183	.00690	.15018	8.7451	.00969	D182-04
94	D182-07	.10223	126.74	5.7170	.03546	19.363	1.6760	.00550	.08119	4.3654	.00722	D182-07
95	Blank	-.00002	.04160	.00010	-.00075	.00743	.00130	-.00001	-.00015	.03826	.00085	Blank
96	CCV9	2.5358	24.859	2.4773	.52563	56.540	2.3501	2.4900	2.4710	58.489	1.0109	CCV9
97	CCB9	.00097	.00854	.00016	-.00015	.01212	.00040	.00108*	.00070	.07343	.00141	CCB9
98	TXD007WB	.00008	.00225	.00012	.00015	-.00624	.00048	.00016	-.00001	.01582	.00009	TXD007WB
99	D462-01A	3.1156	5.4163	.52866	.00152	49.013	.70348	.50485	.47380	51.245	.53644	D462-01A
100	D462-01	2.6535	.01870	.00624	.00067	.07309	.21186	.00007	.00613	.32813	.00094	D462-01
101	D462-01J	.53197	.00331	.00109	-.00032	.01696	.04324	.00004	.00127	.09232	.00016	D462-01J
102	D462-06	.00478	27.926	.00161	.00634	19.418	1.0285	.00900	.05313	6.1404	.00269	D462-06
103	D462-06M	.53417	35.144	.48141	.00769	63.703	1.4903	.51021	.48282	57.836	.53316	D462-06M
104	D462-06S	.57229	36.433	.51861	.00849	69.751	1.6445	.54610	.51914	61.989	.57139	D462-06S
105	D462-10	.01116	1.4304	.00148	.00229	.88683	.11116	.00050	.00325	1.7338	.00149	D462-10
106	D478-01	.55559	13.058	2.2293	.16872	.02291	.43979	.09488	.13245	29.274	.01448	D478-01
107	Blank	.00010	.00535	.00041	.00055	.00345	.00021	.00010	.00003	.26095	.00047	Blank
108	CCV10	2.5639	23.989	2.5205	.53693	55.574	2.3233	2.5726	2.5261	58.580	.98216	CCV10
109	CCB10	.00106	.00959	.00038	.00039	.00758	.00043	.00126*	.00062	.14466*	.00092	CCB10
110	WTD004SB	.00310	.01977	-.00050	.00320	.03818	.00041	.00023	.00114	2.0836*	.02923*	WTD004SB
111	D081-01A	.58607	167.26	.53107	.00632	51.756	.65128	.57140	.49735	56.390	.59060	D081-01A

112	D081-01T	.00974	161.87	.00987	.00527	4.9885	.16562	.03167	.01439	.81217	.00458	D081-01T
113	D081-01J	.00213	33.797	.00115	.00218	1.0326	.03422	.00609	.00265	.30878	.00064	D081-01J
114	D081-01M	.12745	184.97	.11286	.00543	14.545	.28005	.14194	.10725	11.871	.11703	D081-01M
115	D081-01S	.12612	174.77	.11218	.00586	14.140	.26712	.14063	.10687	11.879	.11683	D081-01S
116	Blank	.00003	.01996	.00004	.00138	-.00132	.00000	.00005	.00003	.19827	-.00011	Blank
117	CCV11	2.5720	24.353	2.4671	.53241	54.735	2.2959	2.5192	2.4815	58.684	1.0002	CCV11
118	CCB11	.00108	.00873	.00066	.00072	.00864	.00038	.00120*	.00072	.15843*	.00048	CCB11
119	IPD039SB	-.00008	-.00123	.00016	.00031	-.00072	.00002	.00016	-.00002	.08693	.00164	IPD039SB
120	IPD039SL	.51882	5.0721	.50255	.00108*	46.516	.47320	.52801	.45256	49.094	.48353	IPD039SL
121	IPD039SC	.50938	5.0257	.49458	.00140*	45.875	.47057	.51921	.44499	48.060	.47540	IPD039SC
122	D182-10A	.68099	116.16	5.4505	.03754	65.411	3.4393	.52273	.54776	55.835	.48806	D182-10A
123	D182-10	.15925	116.34	5.2441	.03682	19.620	3.1058	.00378	.09047	6.8169	.00485	D182-10
124	D182-10J	.03200	24.668	1.0783	.00783	4.0899	.65197	.00062	.01785	1.4081	.00121	D182-10J
125	D182-10M	.71273	131.44	5.9380	.05979	66.548	3.5248	.50422	.55766	57.849	.48073	D182-10M
126	D182-10S	.71002	155.15	6.8753	.06359	72.453	4.2342	.50827	.55947	57.821	.47165	D182-10S
127	D182-01	.06244	133.37	.92899	.02314	8.3727	1.8171	.00554	.05657	3.6262	.00520	D182-01
128	Blank	.00016	.05694	.00023	.00002	.03259	.00299	.00008	.00004	.07785	.00033	Blank
129	CCV12	2.5162	24.286	2.4325	.53001	55.242	2.2911	2.4831	2.4349	58.433	.97520	CCV12
130	CCB12	.00102	.00862	.00061	-.00018	.00523	.00040	.00115*	.00061	.09878	.00027	CCB12
131	D182-02	.04433	166.81	.25796	.03468	6.5487	1.3601	.00776	.04875	4.1414	.00521	D182-02
132	D182-03	.03817	151.35	.27020	.02814	5.2124	2.6083	.00742	.04301	3.4794	.00441	D182-03
133	D182-04	.25881	134.46	.70419	.04627	18.403	3.8803	.00450	.11081	7.4083	.00834	D182-04
134	D182-05	.25378	130.44	.65400	.04227	15.955	3.6105	.00513	.11544	6.9811	.00581	D182-05
135	D182-06	.10200	85.405	7.6000	.02914	24.794	1.2455	.00325	.07700	4.1871	.00746	D182-06
136	D182-07	.10037	119.81	5.3265	.03896	21.083	1.6411	.00555	.07716	4.3661	.00520	D182-07
137	D182-08	.08451	120.75	.38989	.03238	5.8940	6.3805	.00557	.08332	10.273	.00412	D182-08
138	D182-09	.08930	172.59	.29428	.04304	7.3581	7.0145	.00776	.10052	12.327	.00351	D182-09
139	Blank	-.00018	.07466	.00043	-.00034	.00236	.00146	.00002	.00006	.01340	.00010	Blank
140	CCV13	2.5419	24.887	2.4796	.52907	56.919	2.3492	2.4884	2.4750	59.253	1.0059	CCV13
141	CCB13	.00003	.00082	-.00007	-.00050	.00518	.00015	.00055	-.00004	.05826	.00070	CCB13
142	IPD040SB	.00002	.00698	.00000	-.00003	.00507	.00023	.00037	.00024	.07577	.00134	IPD040SB
143	IPD040SL	.50917	5.1775	.50639	.00022*	47.755	.48458	.51929	.45374	48.666	.48280	IPD040SL
144	IPD040SC	.51424	5.1937	.51113	.00067*	48.884	.48716	.52195	.45729	50.061	.48763	IPD040SC
145	D465-01A	.64008	59.725	.64866	.04080	100.21	1.0372	.53983	.50732	61.694	.52954	D465-01A
146	D465-01	.09375	57.468	.15942	.04160	55.581	.60449	.00287	.05296	7.3325	.00328	D465-01
147	D465-01J	.01862	12.121	.03179	.00775	11.329	.12447	-.00041	.01015	1.4157	.00001	D465-01J
148	D465-01M	.64414	71.344	.66208	.05651	120.90	1.2174	.42055	.49289	63.242	.31662	D465-01M
149	D465-01S	.67725	74.815	.68242	.05683	119.51	1.2637	.42400	.51467	64.157	.34908	D465-01S
150	D465-02	.17040	79.423	.13848	.01522	9.8894	.25256	.00124	.06902	13.779	.00212	D465-02
151	Blank	-.00005	.01506	-.00004	.00022	.03409	.00026	.00003	-.00002	.05977	.00059	Blank
152	CCV14	2.5311	25.200	2.4318	.52321	56.299	2.3062	2.4499	2.4295	59.014	1.0146	CCV14
153	CCB14	.00004	-.00033	.00007	.00019	.00271	.00015	.00063*	.00012	.09068	.00008	CCB14
154	D465-03T	.04152	51.414	.02861	.00251	1.6257	.14677	.00332	.01445	1.8636	.00037	D465-03T
155	D465-04T	.03937	72.071	.03538	.00238	.93649	.12144	.00345	.01617	1.9635	-.00001	D465-04T
156	D465-05	.08600	47.241	.58678	.10650	81.387	1.5000	.00965	.10911	8.4989	.00518	D465-05
157	D465-06T	.01940	35.856	.06893	.00819	4.9502	.10753	.07156	.00800	.31675	.00016	D465-06T
158	D465-07	.16888	99.518	.13029	.07130	160.85	1.5508	.00095	.13624	7.9737	.00024	D465-07
159	D465-08	.23313	121.20	.17772	.02973	14.296	1.2369	.00550	.09136	15.470	.00232	D465-08
160	D465-09T	.87053	41.903	.02207	.00373	1.2302	.08909	.00197	.00939	2.7286	.00083	D465-09T
161	D465-10	.10185	60.997	.13458	.04453	52.931	.56661	.00404	.03909	9.8095	.00211	D465-10
162	D465-11	.22077	73.379	.15762	.05657	82.446	.89690	.00120	.08618	9.3885	.00187	D465-11
163	Blank	.00004	.03187	-.00029	.00033	.01835	.00016	.00000	.00009	.05634	-.00028	Blank
164	CCV15	2.5167	24.843	2.4768	.53174	56.484	2.3171	2.4881	2.4631	59.347	.98629	CCV15
165	CCB15	.00070	.00653	.00050	.00046	.04232*	.00194*	.00071*	.00033	.12410	.00112	CCB15
166	D465-12T	.03605	112.34	.02580	.00187	.79679	.08492	.00514	.02088	.61033	-.00025	D465-12T
167	D465-13	.16660	88.720	.16909	.03494	25.980	.43313	.00561	.06479	13.561	.00233	D465-13
168	D465-14T	.03554	97.128	.03221	.00163	.67882	.06500	.00441	.01697	1.0029	-.00081	D465-14T

169	D465-15	.12373	64.598	.19848	.06778	141.08	1.1916	.00141	.08974	7.1851	.00416	D465-15
170	D465-16	.45245	57.766	.57740	.04710	39.533	.70957	.00344	.04119	7.2129	.00060	D465-16
171	D465-17	.16698	96.147	.38421	.05681	52.324	.39601	.00238	.04217	20.837	.00243	D465-17
172	D499-01	4.4583	193.95	2.5870	.15116	27.888	2.8429	9.6346*	.12952	4.7716	.00602	D499-01
173	D479-17T	.01203	2.8954	.01120	.01347	3.1241	.08966	.00325	.00525	3.9442	-.00033	D479-17T
174	D479-18T	.00631	2.4792	.00963	.01517	3.2032	.09749	.00107	.00565	1.9869	.00037	D479-18T
175	Blank	.00001	.00619	-.00010	-.00024	.00108	.00009	.00014	.00006	.03009	.00056	Blank
176	CCV16	2.5005	24.449	2.4403	.52748	55.072	2.2756	2.4655	2.4354	59.073	.97221	CCV16
177	CCB16	.00021	.00637	.00007	.00060	.00357	.00012	.00062*	.00052	.05313	.00003	CCB16
INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00015	.00087	-.00012	-.00002	.00010	.00002	-.00016	.00115	Blank
2	S20									S20
3	S21									S21
4	S22							.16159		S22
5	S23							1.5961		S23
6	S24		1.0369							S24
7	S25		6.0535							S25
8	S26									S26
9	S27									S27
10	S28				.00715					S28
11	S29				.06808					S29
12	S30	.04882		.13416		.03251	.01628		.75768	S30
13	S31	.24100		.65839		.15828	.08096		7.4827	S31
14	ICV	.50679	62.372	.48720	2.3472	.47395	.48793	1.4935	2.5907	ICV
15	ICB	.00000	.09759	.00008	.00091	-.00040	.00045	.00022	-.00026	ICB
16	MRLD2101	.01012	1.0397	.01010	.01099	.00014	.00998	.01038	.02139	MRLD2101
17	MRLD2102	.00962	.52601	.00992	.01146	.00973	.01008	.00992	.01131	MRLD2102
18	ICSA1	.00007	.13213	.00132	-.00034	.00205	.00372	-.00056	.00232	ICSA1
19	ICSAB1	1.0719	82.431	.48595	.83999	.96955	.96777	.49138	1.0236	ICSAB1
20	CCV1	.49905	62.417	.48935	2.3170	.50573	.49046	1.4837	2.6169	CCV1
21	CCB1	.00026	.07786	.00038	.00132	.00012	.00007	.00084*	.01328	CCB1
22	CCV2	.50526	62.607	.49139	2.3726	.50236	.48822	1.5051	2.6062	CCV2
23	CCB2	-.00002	.03200	.00000	.00066	-.00005	.00012	.00018	-.00050	CCB2
24	IPD041SB	-.00009	-.00251	-.00002	.00069	.00014	-.00051	-.00004	-.00118	IPD041SB
25	IPD041SL	.46298	51.510	.46337	.46262	.52280	.50231	.49867	.53541	IPD041SL
26	IPD041SC	.46507	50.484	.45901	.45999	.51879	.49736	.49853	.53622	IPD041SC
27	D192-11A	.47583	78.549	.63101	.46286	.54160	2.3019	.66915	.80176	D192-11A
28	D192-11	.00861	26.368	.15705	.00010	.04683	1.8166	.16359	.24451	D192-11
29	D192-11J	.00178	5.3964	.03239	-.00033	.00908	.37467	.03368	.04882	D192-11J
30	D192-11M	.48779	78.955	.64145	.45212	.53340	2.6523	.67824	.85494	D192-11M
31	D192-11S	.47205	76.491	.63022	.43934	.53291	2.4345	.65732	.75622	D192-11S
32	D192-01	.01974	42.416	.20128	-.00195	.04678	2.0938	.20085	.28343	D192-01
33	Blank	.00022	.06690	.00036	.00015	.00011	.00153	.00012	-.00044	Blank
34	CCV3	.50175	62.567	.49141	2.3279	.50488	.49110	1.4809	2.6288	CCV3
35	CCB3	.00006	.04468	.00009	.00095	-.00020	.00038	.00041	-.00042	CCB3
36	D192-02	.09028	24.181	.14556	-.00005	.06000	1.0863	.10660	.70740	D192-02
37	D192-03	.01881	37.322	.12818	-.00059	.04464	1.5686	.13348	.15929	D192-03
38	D192-06	.01829	33.756	.17060	.00003	.04756	1.7996	.16962	.28796	D192-06
39	D208-02	.02286	47.112	.19903	-.00037	.04757	2.2066	.19897	.37722	D208-02
40	D208-08	.01289	28.761	.21064	-.00085	.04728	2.2670	.18885	.30763	D208-08
41	D208-12	.01770	20.836	.15958	-.00083	.04725	2.0516	.15489	.22181	D208-12
42	D208-16	.01044	23.060	.16144	-.00019	.04673	2.0711	.17079	.26160	D208-16
43	Blank	-.00023	.01137	.00003	.00014	-.00015	.00014	.00002	-.00045	Blank
44	CCV4	.49553	62.798	.49235	2.3468	.50733	.49629	1.4678	2.6689	CCV4
45	CCB4	-.00007	.02425	.00003	.00048	-.00015	.00018	.00008	-.00097	CCB4
46	IPD038WB	-.00009	.00222	.00002	-.00052	-.00017	.00012	-.00002	.00037	IPD038WB
47	IPD038WL	.51268	52.201	.47698	.51097	.48657	.51038	.51489	.54139	IPD038WL
48	IPD038WC	.51362	51.524	.47251	.50882	.47987	.50448	.51460	.53496	IPD038WC
49	D170-17A	.50044	52.859	.47714	.52696	.48423	.50812	.52332	.55115	D170-17A
50	D170-17	.00001	.09327	.00016	.00024	-.00003	-.00003	.00007	.00954	D170-17
51	D170-17J	.00001	.02301	.00004	.00015	-.00020	.00008	.00006	.00183	D170-17J
52	D170-17M	.49991	51.265	.46640	.49374	.47626	.49667	.49659	.53154	D170-17M
53	D170-17S	.46184	51.242	.46720	.46053	.47736	.50062	.46302	.49517	D170-17S
54	D192-04	-.00007	.49643	.00102	-.00003	.00010	.00026	.00020	.00116	D192-04

55	Blank	-.00002	.01154	.00004	.00019	-.00025	-.00040	.00010	-.00043	Blank
56	CCV5	.49133	62.668	.49116	2.3237	.50853	.49468	1.4622	2.6632	CCV5
57	CCB5	-.00002	.03364	.00005	.00048	-.00003	.00002	.00003	-.00085	CCB5
58	IPD034WQ	-.00023	-.00026	.00007	.00009	-.00004	-.00056	.00001	-.00105	IPD034WQ
59	IPD034WX	.50801	51.750	.46994	.50642	.48024	.50338	.50858	.53357	IPD034WX
60	IPD034WY	.50734	51.681	.46890	.50516	.47822	.50019	.50731	.53109	IPD034WY
61	D122-04A	.52180	213.25	2.0651	.47573	.48951	.51660	.51629	.54951	D122-04A
62	D122-04W	-.00028	166.00	1.6486	-.00021	.00009	.01365	.00077	.00502	D122-04W
63	D122-04J	-.00007	33.920	.33707	.00026	-.00026	.00309	.00001	.00033	D122-04J
64	D122-04G	.51615	216.14	2.1072	.45845	.48553	.51716	.49584	.54388	D122-04G
65	D122-04H	.52079	217.82	2.1039	.45156	.48550	.52413	.49607	.53871	D122-04H
66	D122-01W	-.00021	157.41	1.6053	-.00101	.00037	.00832	.00001	.00769	D122-01W
67	Blank	-.00015	.14606	.00011	-.00029	-.00006	-.00058	-.00004	-.00051	Blank
68	CCV6	.49881	62.656	.49076	2.3542	.50734	.49318	1.4771	2.6841	CCV6
69	CCB6	-.00006	.08614	-.00002	.00045	.00021	.00009	.00007	-.00088	CCB6
70	D122-02W	-.00017	395.11	3.3979	-.00094	-.00040	.00166	-.00040	.00522	D122-02W
71	D122-03W	-.00017	159.69	1.7918	-.00103	-.00014	.00206	-.00021	.00193	D122-03W
72	D122-05W	-.00014	160.65	1.5757	-.00052	-.00068	.00171	-.00026	.00430	D122-05W
73	D122-06W	-.00021	163.28	1.6508	-.00081	.00024	.00915	.00019	.00453	D122-06W
74	Blank	-.00001	.17145	.00019	.00022	-.00026	-.00018	-.00010	-.00049	Blank
75	CCV7	.49021	62.805	.48989	2.3287	.51109	.49875	1.4498	2.7023	CCV7
76	CCB7	.00017	.11037	.00007	.00088	-.00012	-.00002	.00027	.00007	CCB7
77	TXD006SB	.00019	389.45*	.00154	-.00132	.00062	-.00040	.00014	.00137	TXD006SB
78	D462-02A	.51142	414.01	.49996	.48005	.49156	.51037	.51092	1.1935	D462-02A
79	D462-02	.00001	371.68	.02269	-.00142	.00051	-.00017	.00012	.67194	D462-02
80	D462-02J	-.00012	74.579	.00444	.00023	.00005	-.00016	.00013	.12077	D462-02J
81	D462-02M	.53301	447.37	.49831	.46069	.48663	.50214	.50430	1.0750	D462-02M
82	D462-02S	.52531	415.93	.48837	.47155	.47967	.50240	.50828	1.0439	D462-02S
83	D462-03	.00009	505.63	.06225	-.00220	.00123	.00108	.00000	2.6219	D462-03
84	D462-07	-.00003	354.30	.15056	-.00119	.00128	-.00003	.00016	.55235	D462-07
85	D462-08	-.00019	362.19	.20935	-.00128	.00107	.00016	.00014	.37266	D462-08
86	Blank	-.00015	.36442	.00006	-.00012	-.00005	.00011	-.00003	-.00040	Blank
87	CCV8	.49361	62.874	.48992	2.3047	.51040	.49357	1.4541	2.6641	CCV8
88	CCB8	.00001	.16723*	.00013	.00045	.00011	.00015	.00050	.00075	CCB8
89	D462-09	-.00018	344.93	.04768	-.00115	.00090	-.00015	.00035	.37854	D462-09
90	D463-01	-.00012	352.89	.08417	-.00154	.00102	.00040	.00399	.62498	D463-01
91	D494-01	-.00011	383.37	.75858	-.00173	.00069	.00119	.00000	2.3985	D494-01
92	D182-01	-.00026	1.0338	.07577	-.00191	.04831	1.1291	.25761	19.048	D182-01
93	D182-04	-.00019	.59245	.09383	-.00166	.04942	1.1580	.27454	53.523*	D182-04
94	D182-07	-.00019	.69463	.07256	-.00052	.04748	.94496	.22788	44.995*	D182-07
95	Blank	.00006	.06404	.00004	.00040	.00008	.00016	-.00002	.00364	Blank
96	CCV9	.49534	62.829	.49275	2.3432	.50673	.49437	1.4672	2.6534	CCV9
97	CCB9	.00004	.10203	.00017	.00122	-.00018	.00000	.00057	.00078	CCB9
98	TXD007WB	.00006	.07109	.00001	.00037	-.00049	-.00007	-.00003	.00053	TXD007WB
99	D462-01A	.50283	55.234	.49097	.51951	.49293	.51782	.52416	7.6398	D462-01A
100	D462-01	-.00011	1.3142	.00623	.00024	.00032	.00033	.00022	6.8772	D462-01
101	D462-01J	-.00011	.30390	.00126	-.00011	.00021	.00002	.00012	1.4228	D462-01J
102	D462-06	-.00034	382.87	.75200	-.00174	.00122	.00233	.00038	.07262	D462-06
103	D462-06M	.52067	444.68	1.2432	.42999	.47168	.48822	.49746	.59261	D462-06M
104	D462-06S	.56214	499.72	1.3569	.45976	.50420	.52327	.53197	.63781	D462-06S
105	D462-10	-.00003	8.1508	.06137	-.00089	.00106	.00117	.00080	3.1505	D462-10
106	D478-01	.00003	924.30*	.00360	-.00872*	.01139	.00177	.01082	32.592	D478-01
107	Blank	-.00018	1.0479	.00010	.00023	.00001	.00009	.00002	.00445	Blank
108	CCV10	.48710	63.326	.49493	2.2423*	.51116	.49846	1.4374	2.6358	CCV10
109	CCB10	.00002	.22508*	.00015	.00095	.00001	-.00022	.00052	.00084	CCB10
110	WTD004SB	.00012	*****	.00710*	-.01961	.01099	.00054	.00047	.30626*	WTD004SB
111	D081-01A	.53734	574.96	.63400	.45246	.50479	.53144	.53476	.75454	D081-01A

112	D081-01T	.00017	510.64	.14717	-.00307	.00536	.02169	.01236	.17401	D081-01T
113	D081-01J	-.00016	107.66	.02983	-.00027	.00116	.00445	.00257	.03378	D081-01J
114	D081-01M	.11152	576.27	.25569	.08695	.10390	.12696	.11919	.16062	D081-01M
115	D081-01S	.11033	541.88	.24680	.08549	.10399	.12533	.11783	.15697	D081-01S
116	Blank	-.00017	.52890	.00003	.00010	.00030	-.00036	.00018	-.00028	Blank
117	CCV11	.49266	63.284	.49431	2.2607	.50748	.49331	1.4563	2.5944	CCV11
118	CCB11	.00004	.30612*	.00019	.00101	.00011	.00030	.00058	.00059	CCB11
119	IPD039SB	-.00020	.22378	.00003	.00051	.00002	-.00036	.00017	-.00125	IPD039SB
120	IPD039SL	.47601	52.403	.47206	.46085	.53178	.50822	.50987	.53553	IPD039SL
121	IPD039SC	.46915	51.192	.46637	.45378	.52591	.50362	.50438	.52702	IPD039SC
122	D182-10A	.46130	52.629	.53050	.43401	.53009	1.9756	.69795	36.647*	D182-10A
123	D182-10	-.00046	.41160	.06222	-.00124	.04908	1.5206	.20732	37.434*	D182-10
124	D182-10J	-.00022	.15948	.01271	-.00046	.01020	.31155	.04244	7.9634	D182-10J
125	D182-10M	.48285	52.983	.53609	.42812	.52073	2.2102	.72860	40.242*	D182-10M
126	D182-10S	.47127	52.472	.54875	.41588	.52639	2.3632	.75644	42.102*	D182-10S
127	D182-01	-.00016	.37007	.05295	-.00147	.05403	.85855	.22268	15.715	D182-01
128	Blank	-.00005	.11089	.00030	-.00006	.00024	.00134	.00038	.00402	Blank
129	CCV12	.48207	62.803	.48950	2.2290*	.50566	.49447	1.4492	2.5628	CCV12
130	CCB12	.00013	.12389	.00011	.00117	.00018	-.00032	.00050	.00091	CCB12
131	D182-02	-.00054	.35350	.05829	-.00106	.04620	1.2124	.31935	3.6885	D182-02
132	D182-03	-.00058	.28085	.04816	-.00117	.04664	1.0217	.28683	3.9584	D182-03
133	D182-04	-.00041	.37166	.08687	-.00162	.04846	1.1624	.28140	27.350	D182-04
134	D182-05	-.00059	.32500	.08703	-.00164	.04789	1.2757	.25981	34.254	D182-05
135	D182-06	-.00010	.35600	.05458	-.00081	.04763	.64503	.14365	50.962*	D182-06
136	D182-07	-.00036	.42911	.07302	-.00160	.04847	.98847	.21966	54.788*	D182-07
137	D182-08	-.00052	2.4138	.07340	-.00210	.04686	1.8573	.22070	2.2331	D182-08
138	D182-09	-.00065	2.5609	.07180	-.00234	.04834	2.4764	.30554	1.3368	D182-09
139	Blank	-.00004	.03392	-.00002	.00030	-.00003	.00032	.00006	.00507	Blank
140	CCV13	.49746	63.455	.49498	2.3471	.50863	.49590	1.4672	2.6597	CCV13
141	CCB13	-.00007	.07078	.00009	.00045	.00007	-.00026	.00011	.00012	CCB13
142	IPD040SB	-.00025	.07035	-.00001	.00026	.04169	.00008	.00018	.00146	IPD040SB
143	IPD040SL	.47606	51.588	.46729	.47315	.52818	.50810	.50700	.54935	IPD040SL
144	IPD040SC	.48018	53.025	.47067	.47769	.53160	.50898	.51449	.55190	IPD040SC
145	D465-01A	.52077	76.804	1.6525	.41317	.62481	9.1110	.57448	110.05*	D465-01A
146	D465-01	-.00069	21.027	1.2252	-.00263	.14439	8.9394	.07985	114.13*	D465-01
147	D465-01J	-.00024	4.0648	.24226	-.00026	.02764	1.8217	.01614	29.090	D465-01J
148	D465-01M	.52970	82.388	2.1963	.37993	.63307	12.207	.57784	124.67*	D465-01M
149	D465-01S	.55248	83.813	2.4742	.39121	.63531	11.078	.60860	121.34*	D465-01S
150	D465-02	.00786	30.065	.24561	-.00040	.28454	5.0570	.05004	21.629	D465-02
151	Blank	.00009	.08046	.00054	.00020	.00009	.00361	-.00002	.01113	Blank
152	CCV14	.50042	62.888	.48714	2.3438	.50334	.49112	1.4910	2.6100	CCV14
153	CCB14	-.00018	.07562	.00008	.00053	.00008	.00006	.00008	.00045	CCB14
154	D465-03T	.00014	4.8143	.02564	.00034	.03401	.16073	.01375	.16821	D465-03T
155	D465-04T	.00008	4.1487	.02563	.00023	.03856	.17091	.01420	.18570	D465-04T
156	D465-05	.00036	27.652	4.5115	-.00513*	.06970	7.4400	.15001	179.66*	D465-05
157	D465-06T	.00029	.68640	.05531	.00058	.06293	.23683	.01456	41.133*	D465-06T
158	D465-07	-.00086	24.834	5.0279	-.00402	.10992	14.715	.33810	112.58*	D465-07
159	D465-08	.00424	46.806	.44008	-.00331	.20154	11.829	.12834	150.58*	D465-08
160	D465-09T	.00015	6.0483	.02465	.00085	.02235	.18008	.00733	2.2692	D465-09T
161	D465-10	-.00053	25.237	1.0263	-.00316	.16422	7.1879	.08307	84.028*	D465-10
162	D465-11	-.00002	27.604	3.1462	-.00319	.13990	9.3024	.16274	83.700*	D465-11
163	Blank	-.00016	.06178	.00077	.00029	.00024	.00324	.00012	.03184	Blank
164	CCV15	.49012	63.358	.49037	2.2914	.51006	.49801	1.4691	2.6418	CCV15
165	CCB15	.00000	.11035	.00032	.00056	.00022	.00015	.00044	.00252	CCB15
166	D465-12T	-.00002	1.1910	.01546	.00092	.06530	.15269	.01000	.39726	D465-12T
167	D465-13	-.00015	25.979	.50699	-.00279	.21427	10.926	.07790	154.07*	D465-13
168	D465-14T	.00010	2.1690	.01495	.00080	.05041	.15335	.00798	.21103	D465-14T

169	D465-15	-.00057	22.075	3.7297	-.00263	.09326	9.8507	.15914	72.290*	D465-15
170	D465-16	-.00027	17.008	1.5933	-.00271	.12288	8.3185	.06676	113.79*	D465-16
171	D465-17	.00098	48.807	.71865	-.00141	.32607	6.6703	.04130	41.719*	D465-17
172	D499-01	.01427	19.142	1.1975	.00151	.17679	7.1303	.19383	150.70*	D499-01
173	D479-17T	.00137	9.0332	.11510	.00019	.03914	.82716	.00588	.38844	D479-17T
174	D479-18T	.00202	4.4838	.07476	-.00045	.03621	.76480	.00521	.34906	D479-18T
175	Blank	-.00014	.03624	.00000	.00023	.00000	.00010	.00002	.00358	Blank
176	CCV16	.48701	62.791	.48707	2.2521	.50254	.48892	1.4519	2.5862	CCV16
177	CCB16	.00002	.06509	.00005	.00061	-.00024	-.00019	.00001	.00021	CCB16
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8D024 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-100
Batch: IPD0413
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	5
☑ EMAX-3050	4
☐ EMAX-200.7	1
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		92 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-13-01-28	.5
LCS-2	SM1A-13-01-29	.5
LCS-3	SM1A-13-03-14	1
MS		
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-329	10
HCl	SW1A-04-348	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SM5B-02-155	10

Digestate Location	ICP
Extract Location	

☑ Reagent Water ID: SM5A-02-058
☑ Thermometer ID: 11124/117
☑ Pipette ID: ICP-07
☑ Pipette ID: 538480308
☐ Pipette ID:
☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask
☐ HCl dispenser checked @ 5.0 ml with Class A volumetric flask

Prepared By: HF
Standard Added By: HF Witnessed By: MJM
Extract Rcvd By: TH Checked By: TH

7120

FileID: IPD041S

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPD041S01	IPD041SB	1	g	4/20/11 13:17	100	1	100	1	
11IPD041S02	IPD041SL	1	g	4/20/11 13:17	100	1	100	1	
11IPD041S03	IPD041SC	1	g	4/20/11 13:17	100	1	100	1	
11IPD041S04	D192-01	1.42	g	4/20/11 15:01	100	1	100	0.704	
11IPD041S05	D192-02	1.13	g	4/20/11 15:03	100	1	100	0.885	
11IPD041S06	D192-03	1.29	g	4/20/11 15:04	100	1	100	0.775	
11IPD041S07	D192-06	1.07	g	4/20/11 15:05	100	1	100	0.935	
11IPD041S08	D192-11	1.26	g	4/20/11 15:06	100	1	100	0.794	✓
11IPD041S09	D192-11M	1.26	g	4/20/11 15:06	100	1	100	0.794	
11IPD041S10	D192-11S	1.15	g	4/20/11 15:07	100	1	100	0.87	
11IPD041S11	D182-01	1.12	g	4/20/11 13:18	100	1	100	0.893	DRIED AND SIEVED ✓
11IPD041S12	D182-04	1.06	g	4/20/11 13:19	100	1	100	0.943	DRIED AND SIEVED ✓
11IPD041S13	D182-07	1.08	g	4/20/11 13:19	100	1	100	0.926	DRIED AND SIEVED ✓
11IPD041S14	D208-02	1.17	g	4/20/11 15:08	100	1	100	0.855	
11IPD041S15	D208-08	1.2	g	4/20/11 15:09	100	1	100	0.833	
11IPD041S16	D208-12	1.25	g	4/20/11 15:09	100	1	100	0.8	
11IPD041S17	D208-16	1.27	g	4/20/11 15:10	100	1	100	0.787	

HF 4/20/11

Balance ID: 10601202. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/20/11 16:13 Prepared By: HF

☑ Digestion Ended @ 4/20/11 18:13 Checked By: TH

Comments: Date 4/20/11

71121

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

METHOD 6020A
METALS BY ICP-MS

One (1) soil sample was received on 04/16/11 for Total Metals by ICP-MS analysis, Method 6020A in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IMD014SL/C were all within QC limits.

Matrix QC Sample
Matrix QC sample was analyzed at the frequency prescribed by the project.
Percent recoveries were within project QC limits except for one result qualified with [*] in D182-14 M/S summary form, most likely due to matrix interference.
Check QC summary form for details.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY ICP-MS

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : T-I98

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IMD014SB	1	NA	04/22/1114:28	04/20/1115:40	98D15020	98D15018	IMD014S	Method Blank
LCS1S	IMD014SL	1	NA	04/22/1114:32	04/20/1115:40	98D15021	98D15018	IMD014S	Lab Control Sample (LCS)
LCD1S	IMD014SC	1	NA	04/22/1114:36	04/20/1115:40	98D15022	98D15018	IMD014S	LCS Duplicate
FAIRLANDMS	D182-14M	0.926	20	04/22/1114:40	04/20/1115:40	98D15023	98D15018	IMD014S	Matrix Spike Sample (MS)
FAIRLANDMSD	D182-14S	0.935	20	04/22/1114:44	04/20/1115:40	98D15024	98D15018	IMD014S	MS Duplicate (MSD)
FAIRLANDAS	D182-14A	0.685	20	04/22/1114:48	04/20/1115:40	98D15025	98D15018	IMD014S	Analytical Spike Sample
FAIRLAND	D182-14	0.685	20	04/22/1114:52	04/20/1115:40	98D15026	98D15018	IMD014S	Field Sample
FAIRLANDDL	D182-14J	3.42	20	04/22/1114:56	04/20/1115:40	98D15027	98D15018	IMD014S	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 6020A
METALS BY ICP-MS

Client	: CH2M HILL	Date Collected:	04/15/11
Project	: TAR CREEK OU4	Date Received:	04/16/11
SDG NO.	: 11D182	Date Extracted:	04/20/11 15:40
Sample ID:	FAIRLAND	Date Analyzed:	04/22/11 14:52
Lab Samp ID:	D182-14	Dilution Factor:	0.685
Lab File ID:	98D15026	Matrix :	SOIL
Ext Btch ID:	IMD014S	% Moisture :	20
Calib. Ref.:	98D15018	Instrument ID :	EMAXTI98

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	4.93	0.428	0.0856
Barium	85.6	0.428	0.0856
Cadmium	0.208J	0.428	0.0856
Chromium	18.9	0.428	0.0856
Lead	14.1	0.428	0.0856
Selenium	0.441	0.428	0.0856
Silver	ND	0.428	0.0856

METHOD 6020A
METALS BY ICP-MS

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	04/20/11
SDG NO.	: 11D182	Date Extracted:	04/20/11 15:40
Sample ID:	MBLK1S	Date Analyzed:	04/22/11 14:28
Lab Samp ID:	IMD014SB	Dilution Factor:	1
Lab File ID:	98D15020	Matrix :	SOIL
Ext Btch ID:	IMD014S	% Moisture :	NA
Calib. Ref.:	98D15018	Instrument ID :	EMAXTI98

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Arsenic	ND	0.500	0.100
Barium	ND	0.500	0.100
Cadmium	ND	0.500	0.100
Chromium	ND	0.500	0.100
Lead	ND	0.500	0.100
Selenium	ND	0.500	0.100
Silver	ND	0.500	0.100

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 6020A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IMD014SB	IMD014SL	IMD014SC		
LAB FILE ID:	98D15020	98D15021	98D15022		
DATIME EXTRCTD:	04/20/1115:40	04/20/1115:40	04/20/1115:40	DATE COLLECTED:	NA
DATIME ANALYZD:	04/22/1114:28	04/22/1114:32	04/22/1114:36	DATE RECEIVED:	04/20/11
PREP. BATCH:	IMD014S	IMD014S	IMD014S		
CALIB REF:	98D15018	98D15018	98D15018		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	25.0	24.5	98	25.0	24.2	97	1	80-120	20
Barium	ND	25.0	24.5	98	25.0	24.7	99	1	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	24.5	98	1	80-120	20
Chromium	ND	25.0	23.9	96	25.0	24.3	97	2	80-120	20
Lead	ND	25.0	24.6	98	25.0	24.9	100	1	80-120	20
Selenium	ND	25.0	24.2	97	25.0	24.3	97	1	80-120	20
Silver	ND	25.0	24.8	99	25.0	25.0	100	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 6020A

MATRIX:	SOIL			% MOISTURE:	20
DILTN FACTR:	0.685	0.926	0.935		
SAMPLE ID:	FAIRLAND				
CONTROL NO.:	D182-14	D182-14M	D182-14S		
LAB FILE ID:	98D15026	98D15023	98D15024		
DATIME EXTRCTD:	04/20/1115:40	04/20/1115:40	04/20/1115:40	DATE COLLECTED:	04/15/11
DATIME ANALYZD:	04/22/1114:52	04/22/1114:40	04/22/1114:44	DATE RECEIVED:	04/16/11
PREP. BATCH:	IMD014S	IMD014S	IMD014S		
CALIB. REF:	98D15018	98D15018	98D15018		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	4.93	28.9	32.8	96	29.2	34.2	100	4	75-125	20
Barium	85.6	28.9	114	97	29.2	120	118	5	75-125	20
Cadmium	0.208J	28.9	28.9	99	29.2	29.3	99	1	75-125	20
Chromium	18.9	28.9	46.9	97	29.2	55.9	126*	17	75-125	20
Lead	14.1	28.9	41.0	93	29.2	44.0	102	7	75-125	20
Selenium	0.441	28.9	28.2	96	29.2	28.6	96	1	75-125	20
Silver	ND	28.9	29.2	101	29.2	29.8	102	2	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: METHOD 6020A

MATRIX: SOIL % MOISTURE: 20
DILUTION FACTOR: 0.685 3.42
SAMPLE ID: FAIRLAND FAIRLANDDL
EMAX SAMP ID: D182-14 D182-14J
LAB FILE ID: 98D15026 98D15027
DATE EXTRACTED: 04/20/1115:40 04/20/1115:40 DATE COLLECTED: 04/15/11
DATE ANALYZED: 04/22/1114:52 04/22/1114:56 DATE RECEIVED: 04/16/11
PREP. BATCH: IMD014S IMD014S
CALIB. REF: 98D15018 98D15018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Arsenic	4.93	4.72	4	10
Barium	85.6	82.9	3	10
Cadmium	0.208J	ND	NA	10
Chromium	18.9	18.1	5	10
Lead	14.1	13.6	3	10
Selenium	0.441	ND	NA	10
Silver	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 6020A

MATRIX:	SOIL		% MOISTURE:	20
DILTN FACTR:	0.685	0.685		
SAMPLE ID:	FAIRLAND			
CONTROL NO.:	D182-14	D182-14A		
LAB FILE ID:	98D15026	98D15025		
DATIME EXTRCTD:	04/20/1115:40	04/20/1115:40	DATE COLLECTED:	04/15/11
DATIME ANALYZD:	04/22/1114:52	04/22/1114:48	DATE RECEIVED:	04/16/11
PREP. BATCH:	IMD014S	IMD014S		
CALIB. REF:	98D15018	98D15018		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Arsenic	4.93	21.4	26.2	99	75-125
Barium	85.6	21.4	109	111	75-125
Cadmium	0.208J	21.4	22.2	103	75-125
Chromium	18.9	21.4	39.8	98	75-125
Lead	14.1	21.4	35.4	100	75-125
Selenium	0.441	21.4	22.2	101	75-125
Silver	ND	21.4	22.2	104	75-125

ICP-MS QC CHECK TABLE

QC	CCV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	ug/L	ug/L	ug/L	ug/L	ug/L
Al	5000	3000	2500	100000	100000
Sb	50	30	25	20	0
As	50	30	25	20	0
Ba	50	30	25	20	0
Be	50	30	25	20	0
B	50	30	25	20	0
Cd	50	30	25	20	0
Ca	5000	3000	2500	100000	100000
Cr	50	30	25	20	0
Co	50	30	25	20	0
Cu	50	30	25	20	0
Fe	5000	30	2500	100000	100000
Pb	50	30	25	20	0
Mg	5000	3000	2500	100000	100000
Mn	50	30	25	20	0
Mo	50	30	25	2000	2000
Ni	50	30	25	20	0
Pt	50	30	25	20	0
K	5000	3000	2500	100000	100000
Se	50	30	25	20	0
Si	5000	3000	2500	2000	0
Ag	50	30	25	20	0
Na	2500	1500	1250	100000	100000
Sr	50	30	25	20	0
Tl	50	30	25	20	0
Sn	50	30	25	20	0
Ti	50	30	25	2000	2000
Th	50	30	25	20	0
W	50	30	25	20	0
V	50	30	25	20	0
U	50	30	25	20	0
Zn	100	60	50	20	0
Zr	50	30	25	20	0

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP-MS

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/22/11 13:18

End Date: 4/22/11 15:13

Comments:

Book #:	A98-026
Instrument No.:	98
Analytical Batch:	398D15
Analytical Sequence:	98D15
Method File:	EM6020MG

SOP #	Rev. #
☑ EMAX-6020	5
☑ EMAX-200.8	1
☐ EMAX-	

STANDARDS ID	
S0	SM6B04 - 35.03
S1	- 35.04
S2	- 35.05
S3	- 36.01
S4	- 36.02
S5	NA
S6	
S7	
ICV	SM6B04 - 36.03
CCV	- 36.04
ICSA	- 36.05
ICSAB	- 36.06
6020 TUNE SOLN.	- 34.05
200.8 TUNE SOLN.	- 34.06
MRL1 (N= 1/100 Zn=10ppb)	SM6B04 - 36.07
MRL2 (N= 0.5/50 Zn=1ppb)	- 37.01
MRL3 (N= 10ppb B)	- 38.03

Analyzed By: [illegible]

Date: 4/22/11

7131

SEQUENCE FILE : I98D15

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
98D15003	BLNK	13:18	04/22/11	1.00
98D15004	S0	13:22	04/22/11	1.00
98D15005	S1 0.5	13:26	04/22/11	1.00
98D15006	S2 5	13:30	04/22/11	1.00
98D15007	S3 25	13:35	04/22/11	1.00
98D15008	S4 50	13:39	04/22/11	1.00
98D15009	ICV	13:43	04/22/11	1.00
98D15010	ICB	13:47	04/22/11	1.00
98D15011	MRLD2201	13:51	04/22/11	1.00
98D15012	MRLD2202	13:55	04/22/11	1.00
98D15013	MRLD2203	13:59	04/22/11	1.00
98D15014	ICSA	14:03	04/22/11	1.00
98D15015	ICSAB	14:07	04/22/11	1.00
98D15016	BLANK	14:12	04/22/11	1.00
98D15017	BLANK	14:16	04/22/11	1.00
98D15018	CCV1	14:20	04/22/11	1.00
98D15019	CCB1	14:24	04/22/11	1.00
98D15020	IMD014SB	14:28	04/22/11	1.00
98D15021	IMD014SL	14:32	04/22/11	1.00
98D15022	IMD014SC	14:36	04/22/11	1.00
98D15023	D182-14M	14:40	04/22/11	1.00
98D15024	D182-14S	14:44	04/22/11	1.00
98D15025	D182-14A	14:48	04/22/11	1.00
98D15026	D182-14	14:52	04/22/11	1.00
98D15027	D182-14J	14:56	04/22/11	5.00
98D15028	BLANK	15:01	04/22/11	1.00
98D15029	MRLD2204	15:05	04/22/11	1.00
98D15030	CCV2	15:09	04/22/11	1.00
98D15031	CCB2	15:13	04/22/11	1.00

SDG : 110182 UNIT : % ICPMS CHECK : I98D15 DATE : 04/22/11 INST : EMAXTI98

ANALYTE	Li	Be	B	Na	Mg	Al	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Se	Sr	Mo	Ag	Cd	Sn	Sb	Ba	Tl	Pb	U
BLNK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S0	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S1 0.5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2 5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S3 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S4 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	100	100	101	101	101	100	100	101	101	102	103	102	102	101	102	102	100	100	102	102	102	105	103	101	101	103	104	103	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2201	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2202	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2203	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA	----	----	----	94	97	96	95	97	105	----	----	----	97	----	----	----	----	----	----	----	105	----	----	----	----	----	----	----	----
ICSAB	97	93	93	94	99	98	96	95	106	98	100	92	97	92	94	91	109	96	102	94	106	96	100	97	99	102	93	93	99
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	100	99	99	102	101	101	102	102	99	99	99	100	100	99	98	98	101	100	101	103	100	103	101	101	99	100	103	102	99
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IMD014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IMD014SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IMD014SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2204	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	99	97	100	101	103	102	102	103	99	97	96	101	101	101	95	95	99	98	99	101	102	104	101	101	100	101	103	101	101
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 110182 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : I98D15 (SOIL) DATE : 04/22/11 INST : EMAXTI98

ANALYTE	Li	Be	B	Na	Mg	Al	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Se	Sr	Mo	Ag	Cd	Sn	Sb	Ba	Tl	Pb	U
BLNK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S0	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S1 0.5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2 5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S3 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S4 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	.143	.003	.281	-1.87	.838	.065	-.326	.358	-.023	.020	.006	.002	.409	.000	.000	-.004	-.003	-.000	.023	.002	.023	.000	-.002	.019	.057	.000	.005	.002	.004
MRLD2201	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2202	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2203	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA	.754	.002	.276	----	----	----	----	----	----	.159	1.09	.164	----	.294	.646	.335	3.80	.196	.176	.315	----	.063	.598	.103	.272	.182	.011	.120	.001
ICSAB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	-.031	.002	.083	5.02	.531	.088	4.82	.512	-.008	.079	.000	-.006	.750	.000	.002	.027	.005	.003	.019	.000	.063	.000	.000	.009	.063	.000	.001	-.000	.003
IMD014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IMD014SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IMD014SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
D182-14J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLD2204	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	.080	.002	.205	-6.80	.830	.114	2.20	.557	-.032	.202	.000	.014	.383	-.000	-.004	-.015	.012	.008	.011	.002	.013	.000	.003	.017	.067	-.001	.002	-.001	.003

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Method	Type	Vial	Data File	Sample	Comment	Dil/Lvl	Final WT or Vol	Sample WT or Vol	Dil Multiplier	ISTD Conc	Action on Failure	Skip	Result
1		Keyword		TUNBEG	Start of TUNE									
2	C:\ICPCHEM\1\METHODS\TN6020_C.M	Tun6	1301	98D15001	6020tunchk		1.000							
3	C:\ICPCHEM\1\METHODS\TN200_8C.M	Tun2	1302	98D15002	2008tunchk		1.000							
4		Keyword		TUNEND	End of TUNE									
5		Keyword		CALBEG	Start of CALIB									
6	C:\ICPCHEM\1\METHODS\EM6020MG.M	CalBlk	1101	98D15003	BLNK		Level 1							
7	C:\ICPCHEM\1\METHODS\EM6020MG.M	CalBlk	1102	98D15004	S0		Level 1							
8	C:\ICPCHEM\1\METHODS\EM6020MG.M	CalStd	1104	98D15005	S1 0.5		Level 2							
9	C:\ICPCHEM\1\METHODS\EM6020MG.M	CalStd	1105	98D15006	S2 5		Level 3							
10	C:\ICPCHEM\1\METHODS\EM6020MG.M	CalStd	1106	98D15007	S3 25		Level 4							
11	C:\ICPCHEM\1\METHODS\EM6020MG.M	CalStd	1107	98D15008	S4 50		Level 5							
12	C:\ICPCHEM\1\METHODS\EM6020MG.M	ICV1	1204	98D15009	ICV		1.000							
13	C:\ICPCHEM\1\METHODS\EM6020MG.M	ICB	1102	98D15010	ICB		1.000							
14	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	1306	98D15011	MRLD2201	1/100/10ppb	1.000							
15	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	1307	98D15012	MRLD2202	0.5/50/1 ppb	1.000							
16	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	1207	98D15013	MRLD2203	B 10ppb	1.000							
17	C:\ICPCHEM\1\METHODS\EM6020MG.M	ICS-A	1303	98D15014	ICSA		1.000							
18	C:\ICPCHEM\1\METHODS\EM6020MG.M	ICS-AB	1304	98D15015	ICSAB		1.000							
19	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	1101	98D15016	BLANK		1.000							
20	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	1101	98D15017	BLANK		1.000							
21	C:\ICPCHEM\1\METHODS\EM6020MG.M	CCV	1206	98D15018	CCV1		1.000							
22	C:\ICPCHEM\1\METHODS\EM6020MG.M	CCB	1102	98D15019	CCB1		1.000							
23		Keyword		CALEND	End of CALIB									
24		Keyword		SMPLBEG	Start of SMPL									
25	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	2101	98D15020	IMD014SB		1.000							
26	C:\ICPCHEM\1\METHODS\EM6020MG.M	LCS	2102	98D15021	IMD014SL		1.000							
27	C:\ICPCHEM\1\METHODS\EM6020MG.M	LCS	2103	98D15022	IMD014SC		1.000							
28	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	2104	98D15023	D182-14M		1.000							
29	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	2105	98D15024	D182-14S		1.000							
30	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	2106	98D15025	D182-14A		1.000							
31	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	2107	98D15026	D182-14		1.000							
32	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	2108	98D15027	D182-14J		5.000							
33	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	1101	98D15028	BLANK		1.000							
34	C:\ICPCHEM\1\METHODS\EM6020MG.M	Sample	1307	98D15029	MRLD2204	0.5/50/1 ppb	1.000							
35	C:\ICPCHEM\1\METHODS\EM6020MG.M	CCV	1206	98D15030	CCV2		1.000							
36	C:\ICPCHEM\1\METHODS\EM6020MG.M	CCB	1102	98D15031	CCB2		1.000							
37		Keyword		SMPLEND	End of SMPL									
38		Keyword		End	End of Sequence									
39		Keyword		CCVBEG	Start of CCV									
40		Keyword		CCVEND	End of CCV									
41		Keyword		BLKBEG	Start of BLANK									
42		Keyword		BLKEND	End of BLANK									
43		Keyword		ERRBEG	Start of ERRTERM									
44		Keyword		ERREND	End of ERRTERM									

7135

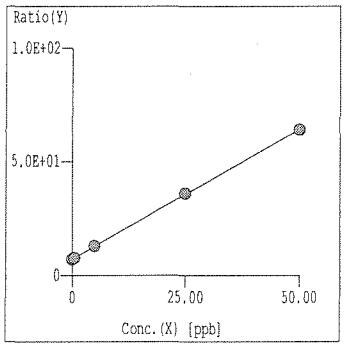
Last Calib: Apr 22, 2011 01:41 pm
Calibration Type: External Calibration Method
Calibration Title:
Weighting Method: 1/(SD*SD)
Mass Interpolation Fit for VIS: Point to Point
Method: C:\ICPCHEM\1\METHODS\EM6020MG.M
Multi Tune: #1 h2.u
#2 he.u
#3 norm.u

=== Standard Files ===
<Data Correction>
Bkg File: ---
Rejected Masses: ---
Interference Correction: ON

	Data File	Sample Name	Date Acquired
1	d:\data\i982011\d\i98d15.b\98d15004.d\98d15004.d#	S0	Apr 22 2011 01:22 pm
2	d:\data\i982011\d\i98d15.b\98d15005.d\98d15005.d#	S1 0.5	Apr 22 2011 01:26 pm
3	d:\data\i982011\d\i98d15.b\98d15006.d\98d15006.d#	S2 5	Apr 22 2011 01:30 pm
4	d:\data\i982011\d\i98d15.b\98d15007.d\98d15007.d#	S3 25	Apr 22 2011 01:35 pm
5	d:\data\i982011\d\i98d15.b\98d15008.d\98d15008.d#	S4 50	Apr 22 2011 01:39 pm
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

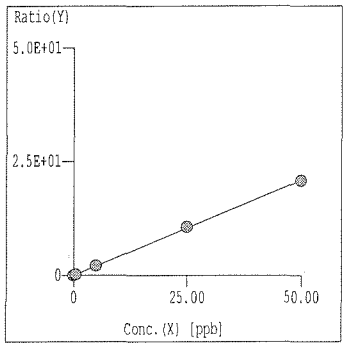
=== Graph Detail ===

Step Mass Element	ISTD	Unit
(3) 7 Li	6	ppb



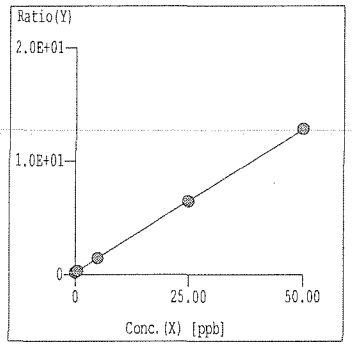
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 1.140E+000*X +7.086E+000
X = 8.772E-001*Y -6.216E+000
DL = 1.383E-01 ppb
BEC = 6.216 ppb

Step Mass Element	ISTD	Unit
(3) 9 Be	6	ppb



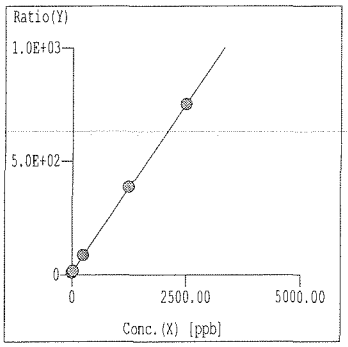
Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 4.166E-001*X +1.190E-003
X = 2.401E+000*Y -2.856E-003
DL = 7.231E-03 ppb
BEC = 2.856E-03 ppb

Step Mass Element	ISTD	Unit
(3) 11 B	6	ppb



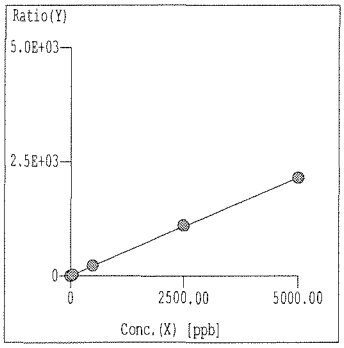
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 2.519E-001*X +1.858E-001
X = 3.970E+000*Y -7.376E-001
DL = 2.100E-01 ppb
BEC = 7.376E-01 ppb

Step Mass Element	ISTD	Unit
(1) 23 Na	45	ppb



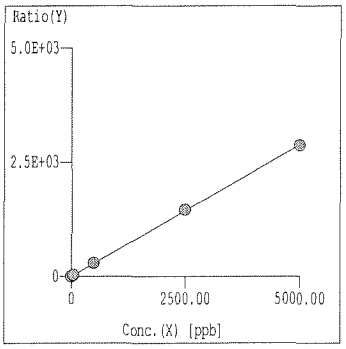
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 2.971E-001*X +1.032E+001
X = 3.366E+000*Y -3.475E+001
DL = 1.458 ppb
BEC = 34.75 ppb

Step Mass Element	ISTD	Unit
(3) 24 Mg	45	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 4.305E-001*X +7.743E-001
X = 2.323E+000*Y -1.799E+000
DL = 8.109E-02 ppb
BEC = 1.799 ppb

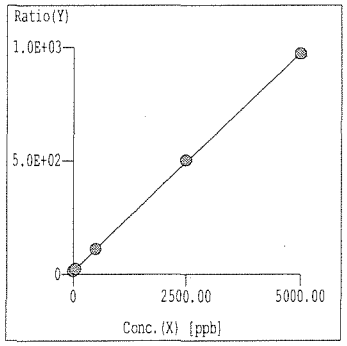
Step Mass Element	ISTD	Unit
(3) 27 Al	45	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 5.768E-001*X +7.968E-002
X = 1.734E+000*Y -1.381E-001
DL = 5.495E-03 ppb
BEC = 1.381E-01 ppb

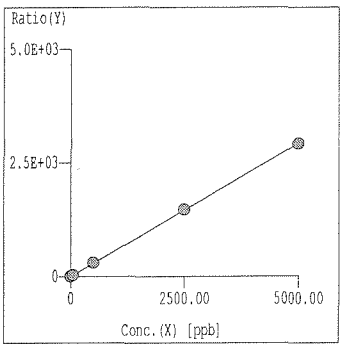
=== Graph Detail ===

Step Mass Element	ISTD	Unit
(2) 39 K	45	ppb



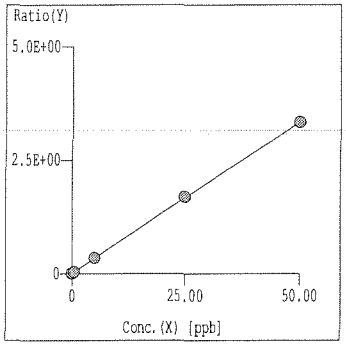
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 1.920E-001*X +1.430E+001
X = 5.208E+000*Y -7.449E+001
DL = 2.674 ppb
BEC = 74.49 ppb

Step Mass Element	ISTD	Unit
(1) 40 Ca	45	ppb



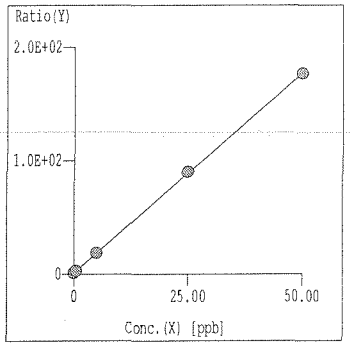
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 5.845E-001*X +1.566E+000
X = 1.711E+000*Y -2.679E+000
DL = 3.628E-02 ppb
BEC = 2.679 ppb

Step Mass Element	ISTD	Unit
(3) 47 Ti	45	ppb



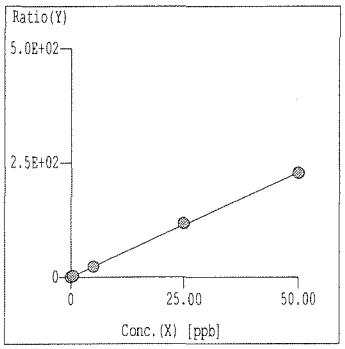
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 6.666E-002*X +7.326E-003
X = 1.500E+001*Y -1.099E-001
DL = 4.378E-02 ppb
BEC = 1.099E-01 ppb

Step Mass Element	ISTD	Unit
(2) 51 V	45	ppb



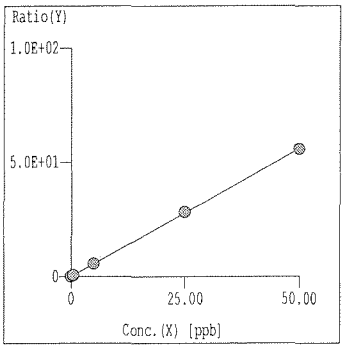
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 3.519E+000*X +1.103E+000
X = 2.842E-001*Y -3.133E-001
DL = 3.446E-02 ppb
BEC = 3.133E-01 ppb

Step Mass Element	ISTD	Unit
(2) 52 Cr	45	ppb



Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 4.574E+000*X +3.640E-001
X = 2.186E-001*Y -7.957E-002
DL = 7.586E-03 ppb
BEC = 7.957E-02 ppb

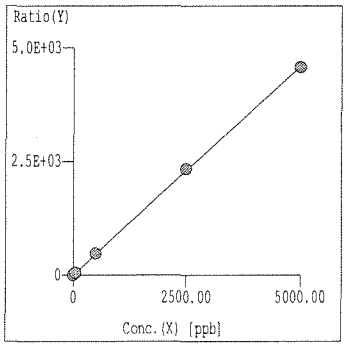
Step Mass Element	ISTD	Unit
(3) 55 Mn	45	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 1.117E+000*X +1.251E-001
X = 8.956E-001*Y -1.120E-001
DL = 3.498E-03 ppb
BEC = 1.120E-01 ppb

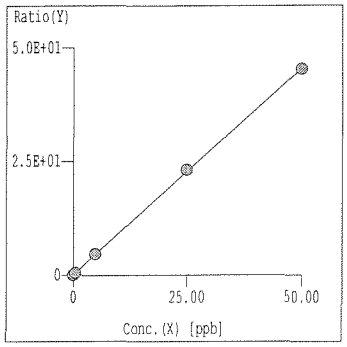
=== Graph Detail ===

Step Mass Element	ISTD	Unit
(1) 56 Fe	45	ppb



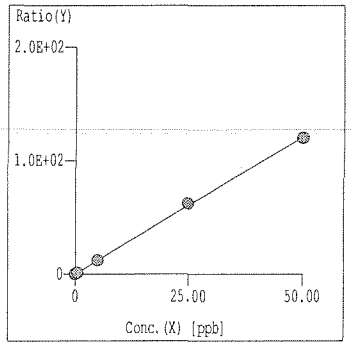
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 9.172E-001*X +4.028E-001
X = 1.090E+000*Y -4.392E-001
DL = 9.602E-03 ppb
BEC = 4.392E-01 ppb

Step Mass Element	ISTD	Unit
(3) 59 Co	45	ppb



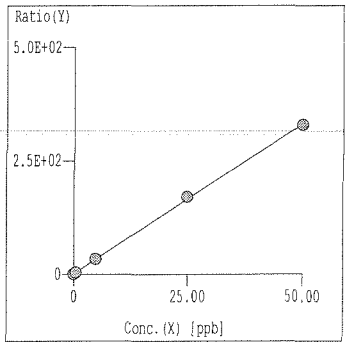
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 9.103E-001*X +4.190E-003
X = 1.099E+000*Y -4.603E-003
DL = 3.028E-03 ppb
BEC = 4.603E-03 ppb

Step Mass Element	ISTD	Unit
(2) 60 Ni	45	ppb



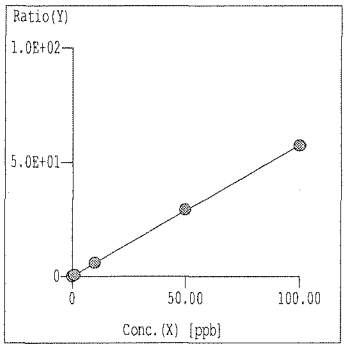
Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 2.417E+000*X +3.882E-002
X = 4.137E-001*Y -1.606E-002
DL = 4.839E-03 ppb
BEC = 1.606E-02 ppb

Step Mass Element	ISTD	Unit
(2) 63 Cu	45	ppb



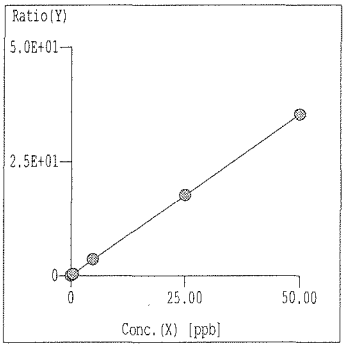
Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 6.623E+000*X +5.399E-001
X = 1.510E-001*Y -8.152E-002
DL = 8.789E-03 ppb
BEC = 8.152E-02 ppb

Step Mass Element	ISTD	Unit
(3) 66 Zn	72	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 5.743E-001*X +4.247E-002
X = 1.741E+000*Y -7.395E-002
DL = 3.630E-02 ppb
BEC = 7.395E-02 ppb

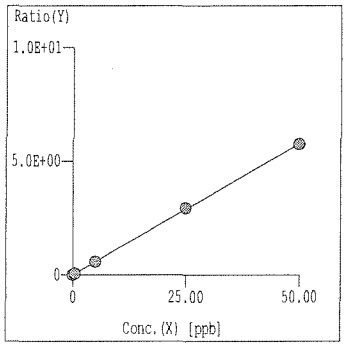
Step Mass Element	ISTD	Unit
(2) 75 As	72	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 7.041E-001*X +3.267E-002
X = 1.420E+000*Y -4.639E-002
DL = 4.639E-02 ppb
BEC = 4.639E-02 ppb

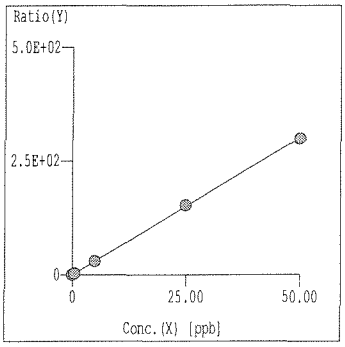
=== Graph Detail ===

Step Mass Element	ISTD	Unit
(1) 78 Se	72	ppb



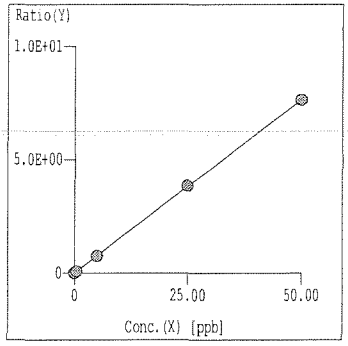
Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 1.152E-001*X +2.869E-003
X = 8.683E+000*Y -2.491E-002
DL = 3.124E-02 ppb
BEC = 2.491E-02 ppb

Step Mass Element	ISTD	Unit
(3) 88 Sr	72	ppb



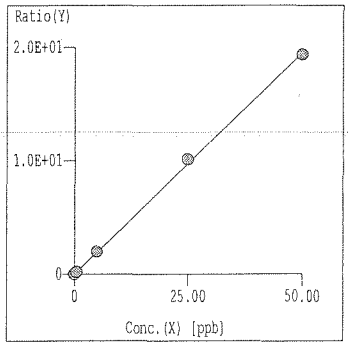
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 5.999E+000*X +1.124E-001
X = 1.667E-001*Y -1.873E-002
DL = 2.064E-03 ppb
BEC = 1.873E-02 ppb

Step Mass Element	ISTD	Unit
(3) 95 Mo	115	ppb



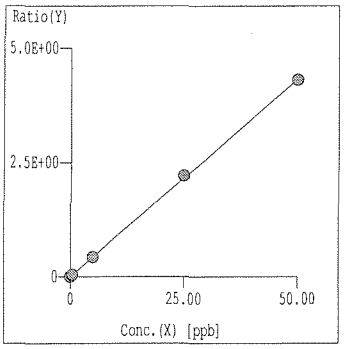
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 1.528E-001*X +3.336E-003
X = 6.543E+000*Y -2.183E-002
DL = 4.747E-03 ppb
BEC = 2.183E-02 ppb

Step Mass Element	ISTD	Unit
(3) 107 Ag	115	ppb



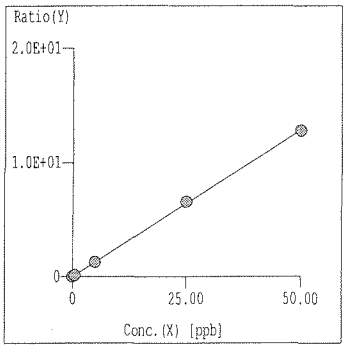
Curve Fit: Y=aX+[blank]
r = 0.9997
Y = 3.897E-001*X +1.174E-003
X = 2.566E+000*Y -3.014E-003
DL = 2.926E-03 ppb
BEC = 3.014E-03 ppb

Step Mass Element	ISTD	Unit
(3) 111 Cd	115	ppb



Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 8.654E-002*X +1.538E-004
X = 1.156E+001*Y -1.777E-003
DL = 6.092E-03 ppb
BEC = 1.777E-03 ppb

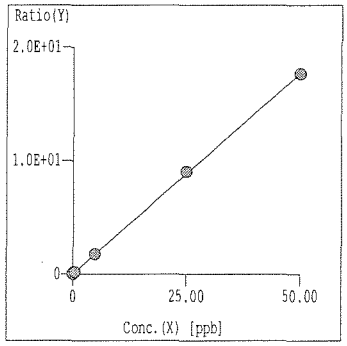
Step Mass Element	ISTD	Unit
(3) 118 Sn	115	ppb



Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 2.568E-001*X +1.736E-003
X = 3.894E+000*Y -6.759E-003
DL = 7.485E-04 ppb
BEC = 6.759E-03 ppb

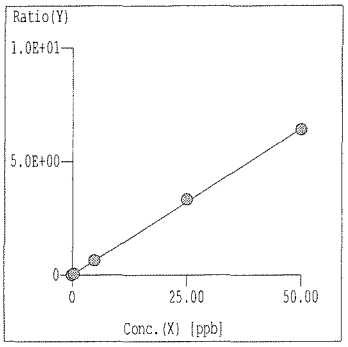
=== Graph Detail ===

Step Mass Element	ISTD	Unit
(3) 121 Sb	115	ppb



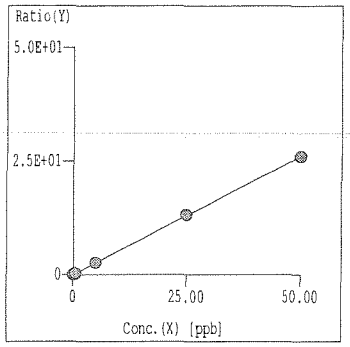
Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 3.542E-001*X +1.162E-002
X = 2.824E+000*Y -3.280E-002
DL = 9.614E-03 ppb
BEC = 3.280E-02 ppb

Step Mass Element	ISTD	Unit
(3) 137 Ba	115	ppb



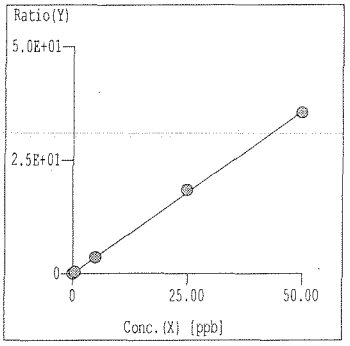
Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 1.290E-001*X +1.128E-003
X = 7.753E+000*Y -8.743E-003
DL = 7.522E-03 ppb
BEC = 8.743E-03 ppb

Step Mass Element	ISTD	Unit
(3) 205 Tl	159	ppb



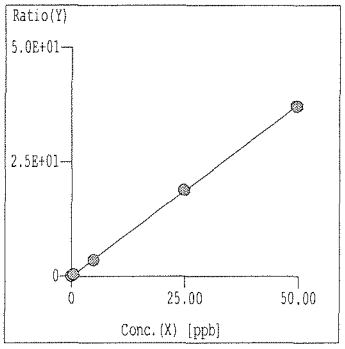
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 5.206E-001*X +1.660E-003
X = 1.921E+000*Y -3.189E-003
DL = 2.540E-03 ppb
BEC = 3.189E-03 ppb

Step Mass Element	ISTD	Unit
(3) 208 Pb	159	ppb



Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 7.137E-001*X +7.721E-003
X = 1.401E+000*Y -1.082E-002
DL = 3.385E-03 ppb
BEC = 1.082E-02 ppb

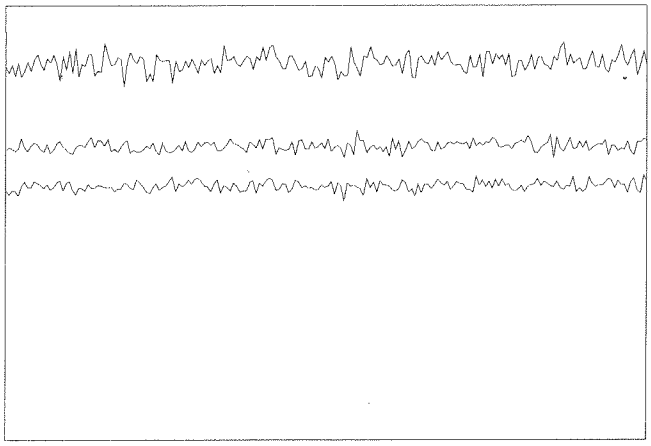
Step Mass Element	ISTD	Unit
(3) 238 U	159	ppb



Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 7.495E-001*X +1.407E-004
X = 1.334E+000*Y -1.878E-004
DL = 3.198E-04 ppb
BEC = 1.878E-04 ppb

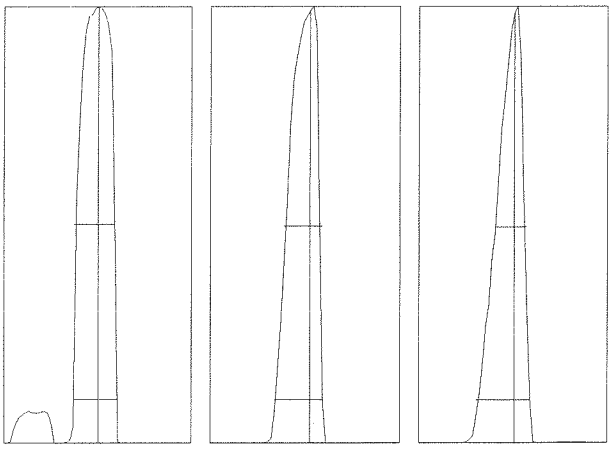
Tune Report

Tune File : NORM.U
Comment : I98D15



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	1.977%
Doubly Charged:	70/140	1.139%

m/z	Range	Count	Mean	RSD%	Background
7	20,000	17199.0	17368.0	2.28	6.20
89	100,000	59468.0	58526.4	1.79	3.90
205	50,000	34572.0	33872.8	1.71	6.70
156/140	5	2.059%	2.041%	4.00	
70/140	2	0.967%	1.007%	5.61	



m/z:	7	89	205
Height:	17,484	59,491	34,121
Axis:	7.05	89.10	205.05
W-50%:	0.65	0.60	0.50
W-10%:	0.700	0.7500	0.8500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Apr 22, 2011 12:48:58
Printed : Apr 22, 2011 12:49:00

Tune Report

Tune File : NORM.U
Comment : I98D15

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1500 W	Extract 1	:	0 V	AMU Gain	:	133
RF Matching	:	1.84 V	Extract 2	:	-130 V	AMU Offset	:	126
Smpl Depth	:	8 mm	Omega Bias-ce	:	-24 V	Axis Gain	:	1.0007
Torch-H	:	1.1 mm	Omega Lens-ce	:	1.6 V	Axis Offset	:	0
Torch-V	:	0.1 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	0.89 L/min	QP Focus	:	2 V			
Makeup Gas	:	0.12 L/min	Cell Exit	:	-36 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1670 V
Sample Pump	:	--- rps	OctP RF	:	170 V	Pulse HV	:	940 V
S/C Temp	:	2 degC	OctP Bias	:	-6 V			

===Reaction Cell===

Reaction Mode	:	OFF						
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

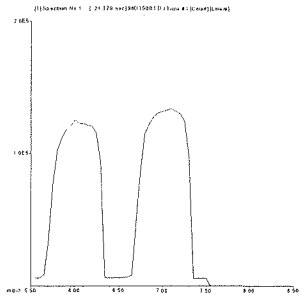
Generated : Apr 22, 2011 12:48:58
Printed : Apr 22, 2011 12:49:03

6020 QC Tune Report

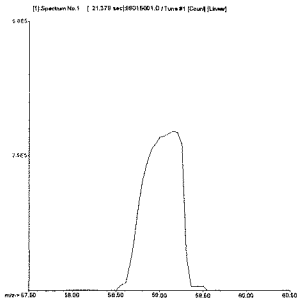
Data File: D:\DATA\I982011\D\I98D15.B\98D15001.D
Date Acquired: Apr 22 2011 01:02 pm
Acq. Method: TN6020_C.M
Operator: CPC
Sample Name: 6020tunchk
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\TN6020_C.M

RSD (%)

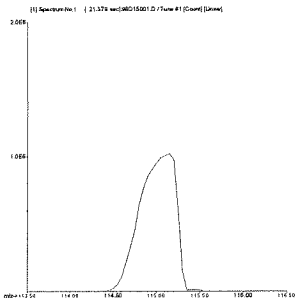
Element	Actual	Required	Flag
7 Li	3.82	5.00	
59 Co	2.45	5.00	
115 In	1.73	5.00	
205 Tl	1.93	5.00	



7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width-10%
Actual: 0.60
Limit 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.10
Required: 58.90 - 59.10
Flag:
Peak Width-10%
Actual: 0.65
Limit 0.90
Flag:



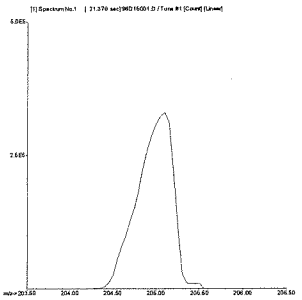
115 In

Mass Calib.

Actual: 115.10
Required: 114.90 - 115.10
Flag:

Peak Width-10%

Actual: 0.65
Limit 0.90
Flag:



205 Tl

Mass Calib.

Actual: 205.05
Required: 204.90 - 205.10
Flag:

Peak Width-10%

Actual: 0.65
Limit 0.90
Flag:

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP-MS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:
Micropipet ID: ICP-07, 538480308

Book #: EIM-030
Batch: IMD014S
Matrix: Soil
Digestor ID: D

SOP #	Rev. #
☐ EMAX-200.8	1
☑ EMAX-6020	6
☐ EMAX-	

Start	Temp	End	Temp
	90 °C		92 °C

Standards	ID	Amount Added (ml)
LCS-1	SM6A-04-03	
LCS-2	SM6A-04-04	
MS	SM6B-04-34-03	
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	~~3~~ HF 4/24 ~~SM~~ SW1A-04-329	10
HCl	SW1A-04-348	575
H_2O_2	SW1A-04-307	10
HNO3(1:1)	SM5B-02-155	10

Digestate Location	ICP
Extract Location	

☐ Soil Samples: -diluted 1 ml of digestate to 10 ml reagent water (DF=10X)

☐ Reagent Water ID: SM5A-02-058

☑ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask

☐ HCl dispenser checked @ 10.0 ml with Class A volumetric flask

☑ Thermometer ID: 11124 1117

Prepared By: HF

Standard Added By: HF Witnessed By: MJM

Extract Rcvd By: CM Checked By: CM

FileID: IMD014S

EMAX LABORATORIES, INC.

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IMD014S01	IMD014SB	1	g	4/20/11 13:14	100	1	100	1	
11IMD014S02	IMD014SL	1	g	4/20/11 13:14	100	1	100	1	
11IMD014S03	IMD014SC	1	g	4/20/11 13:14	100	1	100	1	
11IMD014S04	D182-14	1.46	g	4/20/11 13:15	100	1	100	0.685	✓
11IMD014S05	D182-14M	1.08	g	4/20/11 13:15	100	1	100	0.926	✓
11IMD014S06	D182-14S	1.07	g	4/20/11 13:16	100	1	100	0.935	✓

HF 4/20/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/20/11 15:40 Prepared By: HF

☑ Digestion Ended @ 4/20/11 17:40 Checked By: CJW

Comments: Date 4/20/11

7147

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11D182

METHOD 7471A
MERCURY BY COLD VAPOR

One (1) soil sample was received on 04/16/11 for Mercury analysis, Method 7471A in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source. Continuing calibration verifications were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for HGD016SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11D182
Instrument ID : TI047

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGD016SB	1	NA	04/22/1113:06	04/21/1113:00	M47D014010	M47D014008	HGD016S	Method Blank
LCS1S	HGD016SL	1	NA	04/22/1113:08	04/21/1113:00	M47D014011	M47D014008	HGD016S	Lab Control Sample (LCS)
LCD1S	HGD016SC	1	NA	04/22/1113:11	04/21/1113:00	M47D014012	M47D014008	HGD016S	LCS Duplicate
IR5-SS2-046-050-COMPAS	D192-11A	1.03	13.5	04/22/1113:13	04/21/1113:00	M47D014013	M47D014008	HGD016S	Analytical Spike Sample
IR5-SS2-046-050-COMP	D192-11	1.03	13.5	04/22/1113:15	04/21/1113:00	M47D014014	M47D014008	HGD016S	Field Sample
IR5-SS2-046-050-COMPDL	D192-11J	5.17	13.5	04/22/1113:17	04/21/1113:00	M47D014015	M47D014008	HGD016S	Diluted Sample
FAIRLAND	D182-14	0.984	20.0	04/22/1113:46	04/21/1113:00	M47D014028	M47D014020	HGD016S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : CH2M HILL
Project : TAR CREEK OU4
Batch No. : 11D182

Matrix : SOIL
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGD016SB	ND	1	NA	0.100	0.0200	04/22/1113:06	04/21/1113:00	M47D014010	M47D014008	HGD016S	NA	04/21/11
LCS1S	HGD016SL	0.805	1	NA	0.100	0.0200	04/22/1113:08	04/21/1113:00	M47D014011	M47D014008	HGD016S	NA	04/21/11
LCD1S	HGD016SC	0.803	1	NA	0.100	0.0200	04/22/1113:11	04/21/1113:00	M47D014012	M47D014008	HGD016S	NA	04/21/11
FAIRLAND	D182-14	0.0517J	0.984	20.0	0.123	0.0246	04/22/1113:46	04/21/1113:00	M47D014028	M47D014020	HGD016S	04/15/11	04/16/11

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGD016SB	HGD016SL	HGD016SC		
LAB FILE ID:	M47D014010	M47D014011	M47D014012		
DATIME EXTRCTD:	04/21/1113:00	04/21/1113:00	04/21/1113:00	DATE COLLECTED:	NA
DATIME ANALYZD:	04/22/1113:06	04/22/1113:08	04/22/1113:11	DATE RECEIVED:	04/21/11
PREP. BATCH:	HGD016S	HGD016S	HGD016S		
CALIB. REF:	M47D014008	M47D014008	M47D014008		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.805	97	0.833	0.803	96	0	80-120	30

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11D182
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	13.5
DILUTION FACTOR:	1.03	5.17		
SAMPLE ID:	IR5-SS2-046-050-COMP	IR5-SS2-046-050-COM		
EMAX SAMP ID:	D192-11	D192-11J		
LAB FILE ID:	M47D014014	M47D014015		
DATE EXTRACTED:	04/21/1113:00	04/21/1113:00	DATE COLLECTED:	04/18/11
DATE ANALYZED:	04/22/1113:15	04/22/1113:17	DATE RECEIVED:	04/18/11
PREP. BATCH:	HGD016S	HGD016S		
CALIB. REF:	M47D014008	M47D014008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Mercury	0.0318J	ND	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11D182
METHOD: METHOD 7471A

==========

MATRIX:	SOIL		% MOISTURE:	13.5
DILTN FACTR:	1.03	1.03		
SAMPLE ID:	IR5-SS2-046-050-COMP			
CONTROL NO.:	D192-11	D192-11A		
LAB FILE ID:	M47D014014	M47D014013		
DATIME EXTRCTD:	04/21/1113:00	04/21/1113:00	DATE COLLECTED:	04/18/11
DATIME ANALYZD:	04/22/1113:15	04/22/1113:13	DATE RECEIVED:	04/18/11
PREP. BATCH:	HGD016S	HGD016S		
CALIB. REF:	M47D014008	M47D014008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	0.0318J	0.992	0.959	93	85-115

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 4/22/11 Start Time: 12:41

End Date: 4/22/11 End Time: 13:50

Book #: A47-76

Instrument No.: 47

Analytical Sequence/Batch: M47D014

Method File: Hg

Comments:

Q2 OK

SOP #	Rev. #
☐ EMAX-7470	5
☑ EMAX-7471	5
☐ EMAX-245.1	2
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-09-709
S3	↓
S4	
S5	
S6	
CCV	
ICV	SM3B-09-710
LCS	↓
Analytical Spike	
	SM3B-09-691

Analyzed By: NT

Date: 4/22/11

"M47D014"

EMAXlfid	EMAXlsid	conc	Raw_resp	rsd/rf	adatetime	DF
M47D014000	STD1REP1	0	5846		04/22/1112:41	1
M47D014001	STD2REP1	.2	55300		04/22/1112:44	1
M47D014002	STD3REP1	1	204904		04/22/1112:46	1
M47D014003	STD4REP1	2	387654		04/22/1112:48	1
M47D014004	STD5REP1	5	927640		04/22/1112:52	1
M47D014005	STD6REP1	10	1817373		04/22/1112:54	1
M47D014006	ICV	2.01	381134	0	04/22/1112:56	1
M47D014007	ICB	.059	30107	0	04/22/1112:59	1
M47D014008	CCV1	4.86	895854	0	04/22/1113:01	1
M47D014009	CCB1	.045	27510	0	04/22/1113:04	1
M47D014010	HGD016SB	.05	28342	0	04/22/1113:06	1
M47D014011	HGD016SL	4.83	890533	0	04/22/1113:08	1
M47D014012	HGD016SC	4.82	889336	0	04/22/1113:11	1
M47D014013	D192-11A	4.83	890425	0	04/22/1113:13	1
M47D014014	D192-11	.16	48244	0	04/22/1113:15	1
M47D014015	D192-11J	.08	33827	0	04/22/1113:17	5
M47D014016	D192-11M	5.05	930906	0	04/22/1113:20	1
M47D014017	D192-11S	5	920310	0	04/22/1113:22	1
M47D014018	D192-01	.252	64871	0	04/22/1113:24	1
M47D014019	D192-02	.78	160119	0	04/22/1113:27	1
M47D014020	CCV2	4.88	899688	0	04/22/1113:29	1
M47D014021	CCB2	.057	29751	0	04/22/1113:31	1
M47D014022	D192-03	.103	37931	0	04/22/1113:33	1
M47D014023	D192-06	.182	52189	0	04/22/1113:35	1
M47D014024	D208-02	.168	49697	0	04/22/1113:37	1
M47D014025	D208-08	.195	54606	0	04/22/1113:39	1
M47D014026	D208-12	.234	61593	0	04/22/1113:41	1
M47D014027	D208-16	.198	55044	0	04/22/1113:44	1
M47D014028	D182-14	.252	64810	0	04/22/1113:46	1
M47D014029	CCV3	4.85	894617	0	04/22/1113:48	1
M47D014030	CCB3	.043	27124	0	04/22/1113:50	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47D014000	BLANK	-.1080857	19489.75	.9999301	04/22/1113:50	1

RunProt: HGCOM

RunFold: M47D014 Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 12:54:41 22 Apr 2011 Xmit: Off Gas: 0.35 LPM

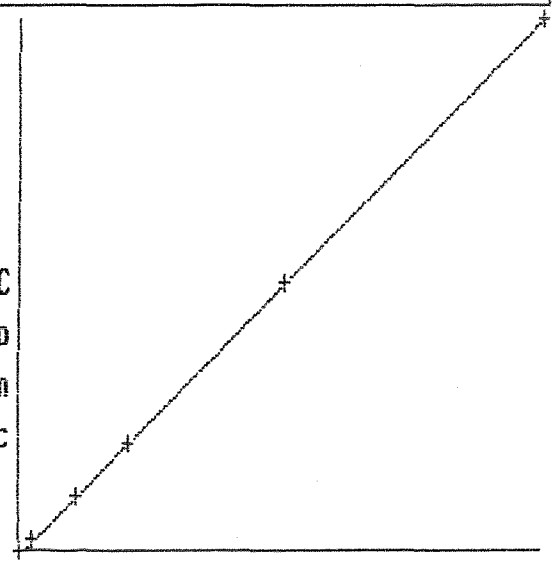
State: Idle User: MT A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	-.075	-.075	Quadratic
S2	.200	.199	-.001	Wtdlinear
S3	1.00	1.03	.029	C
S4	2.00	2.04	.042	Accept o
S5	5.00	5.04	.036	n
S6	10.0	9.97	-.030	c

A .0000000 r .999930

B 5.54500e-6 C -1.07647e-1



Relative Absorbance

	Mean		
S1	5846	0 SD	5846
S2	55300	0 %RSD	55300
S3	204904	0 %RSD	204904
S4	387654	0 %RSD	387654
S5	927640	0 %RSD	927640
S6	1817373	0 %RSD	1817373

New cal coefficients stored

EMAX LABORATORIES, INC.

DIGESTION LOG *for* MERCURY

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: E47-082

Batch No.: HGD0165

Matrix: Soil

SOP #	Rev. #
☐ EMAX-7470	5
☑ EMAX-7471	5
☐ EMAX-245.1	2
☐ EMAX-	

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SM38-09-709	100	0.2, 1, 2, 5, 10
CCV	↓	|	5
ICV	SM38-09-710	|	2
LCS/MS	↓	↓	5

Reagent	ID
HNO_3 aqua	SW1A - 04 - 329
HCl / regia	SW1A - 04 - 333
H_2SO_4	N/A
$KMnO_4$	SM5B - 02 - 152
$K_2S_2O_8$	N/A
$NH_2OH.HCl$	SM5B - 02 - 153
$SnCl_2$	↓ 154
Silica Sand	SW1A - 04 - 146

Temp of Digestion Bath: 95 °C A digestor

Thermometer ID: 101557667

☐ H_2SO_4 dispenser checked @ 2.5 ml with Class A graduated cylinder

☐ HNO_3 dispenser checked @ 1.25 ml with Class A graduated cylinder

☑ HCl dispenser checked @ ~~50~~ 30 ml with Class A graduated cylinder

☑ HNO_3 dispenser checked @ ~~50~~ 10 ml with Class A graduated cylinder

NT 4/21/11

Prepared By: NT

Standard Added By: NT Witnessed By: TH

EMAX LABORATORIES INC

DIGESTION LOG FOR MERCURY

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11HGD016S01	HGD016SB	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S02	HGD016SL	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S03	HGD016SC	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S04	D192-01	0.61	g	4/21/11 11:13		0.6		0.984	
11HGD016S05	D192-02	0.62	g	4/21/11 11:14		0.6		0.968	
11HGD016S06	D192-03	0.61	g	4/21/11 11:14		0.6		0.984	
11HGD016S07	D192-06	0.63	g	4/21/11 11:15		0.6		0.952	
11HGD016S08	D192-11	0.58	g	4/21/11 11:15		0.6		1.034	
11HGD016S09	D192-11M	0.58	g	4/21/11 11:15		0.6		1.034	
11HGD016S10	D192-11S	0.61	g	4/21/11 11:16		0.6		0.984	
11HGD016S11	D208-02	0.59	g	4/21/11 11:17		0.6		1.017	
11HGD016S12	D208-08	0.61	g	4/21/11 11:17		0.6		0.984	
11HGD016S13	D208-12	0.61	g	4/21/11 11:18		0.6		0.984	
11HGD016S14	D208-16	0.58	g	4/21/11 11:18		0.6		1.034	
11HGD016S15	D182-14	0.61	g	4/21/11 11:19		0.6		0.984	
11HGD016S16	S-0	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S17	S-0.2	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S18	S-1	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S19	S-2	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S20	S-5	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S21	S-10	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S22	ICV	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S23	ICB	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S24	CCV	0.6	g	4/21/11 11:11		0.6		1	
11HGD016S25	CCB	0.6	g	4/21/11 11:11		0.6		1	

NT
4/21/11

Balance ID: 10203192. Calibration check was verified prior to use. Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 4/21/11 13:00 Prepared By: NT NT

☑ Digestion Ended @ 4/21/11 14:00 Checked By: TH

Comments: Date 4/21/11

TABLE OF CONTENTS

CLIENT: **CH2M HILL**

PROJECT: **TAR CREEK OU4**

SDG: **11G077**

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1011
GC/MS-VOA	**	2000 –
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B METHOD 3050B/6010B (LEAD)	7000 – 7083 7084 – 7125
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 07-25-2011
EMAX Batch No.: 11G077

Attn: John Ynfante

CH2M HILL
14701 St. Mary's Lane, #300
Houston TX 77079-2923

Subject: Laboratory Report
Project: Tar Creek OU4

Enclosed is the Laboratory report for samples received on 07/13/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
CB231-20-01	G077-01	06/28/11	SOIL	CADMIUM
CB231-20-02	G077-02	06/28/11	SOIL	CADMIUM
CB231-19-01	G077-03	06/28/11	SOIL	CADMIUM
CB231-19-02	G077-04	06/28/11	SOIL	CADMIUM
CB134-03-01	G077-05	06/28/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB134-03-02	G077-06	06/28/11	SOIL	CADMIUM
CB134-04-01	G077-07	06/28/11	SOIL	CADMIUM
CB134-04-02	G077-08	06/28/11	SOIL	CADMIUM
CB156-12-01	G077-09	07/07/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB156-12-02	G077-10	07/07/11	SOIL	CADMIUM
CB156-13-01	G077-11	07/07/11	SOIL	CADMIUM
CB156-13-02	G077-12	07/07/11	SOIL	CADMIUM
CB156-11-01	G077-13	07/07/11	SOIL	CADMIUM
CB156-11-02	G077-14	07/07/11	SOIL	CADMIUM
CB156-11-02FD	G077-15	07/07/11	SOIL	CADMIUM

Sample ID	Control #	Col Date	Matrix	Analysis
CB223-13-02	G077-16	07/07/11	SOIL	LEAD
				METALS BY ICP
				METALS SIEVE AND OVEN DRY SOIL
CB223-10-01	G077-17	07/07/11	SOIL	CADMIUM
CB223-10-02	G077-18	07/07/11	SOIL	CADMIUM
CB223-11-01	G077-19	07/07/11	SOIL	CADMIUM
CB223-11-02	G077-20	07/07/11	SOIL	CADMIUM
CB223-11-01FD	G077-21	07/07/11	SOIL	CADMIUM
CB223-12-01	G077-22	07/07/11	SOIL	CADMIUM
CB223-12-02	G077-23	07/07/11	SOIL	CADMIUM
CB223-13-01	G077-24	07/07/11	SOIL	CADMIUM

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

1

CH. 1102.

Chain of Custody Record

116077

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			July 12 2011	1of2
Address	**Telephone Number**	**Fax Number**			
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401			
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**		
Houston, TX 77079	John Ynfante	Contact John Ynfante			
Project Name	**Carrier/Waybill Numbe**	**CH2M HILL Project Number:**			
Tar Creek OU4		413831.CV.01			
Samplers:					
Various CH2M HILL personnel					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	PB	Zn	admium Only					Comments
1	CB231-20-01	6/28/2011	850	4oz	Glass	2	ICE	Soil			x					
2	CB231-20-02	6/28/2011	855	4oz	Glass	2	ICE	Soil			x					
3	CB231-19-01	6/28/2011	940	4oz	Glass	2	ICE	Soil			x					
4	CB231-19-02	6/28/2011	945	4oz	Glass	2	ICE	Soil			x					
5	**CB134-03-01**	**6/28/2011**	**1340**	**4oz**	**Glass**	**2**	**ICE**	**Soil**	**x**	**x**	**x**					**Sieve Lead Sample**
6	CB134-03-02	6/28/2011	1345	4oz	Glass	2	ICE	Soil			x					
7	CB134-04-01	6/28/2011	1430	4oz	Glass	2	ICE	Soil			x					
8	CB134-04-02	6/28/2011	1435	4oz	Glass	2	ICE	Soil			x					
9	**CB156-12-01**	**7/7/2011**	**1545**	**4oz**	**Glass**	**2**	**ICE**	**Soil**	**x**	**x**	**x**					**Sieve Lead Sample**
10	CB156-12-02	7/7/2011	1550	4oz	Glass	2	ICE	Soil			x					
11	CB156-13-01	7/7/2011	1635	4oz	Glass	2	ICE	Soil			x					
12	CB156-13-02	7/7/2011	1640	4oz	Glass	2	ICE	Soil			x					
13	CB156-11-01	7/7/2011	1440	4oz	Glass	2	ICE	Soil			x					
14	CB156-11-02	7/7/2011	1445	4oz	Glass	2	ICE	Soil			x					
15	CB156-11-02FD	7/7/2011	1445	4oz	Glass	2	ICE	Soil			x					
16	**CB223-13-02**	**7/7/2011**	**1030**	**4oz**	**Glass**	**2**	**ICE**	**Soil**	**x**	**x**	**x**					**Sieve Lead Sample**

Turnaround Time

21 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Scott Porter CH2M HILL	***Date:*** 7/12/2011	***Time:*** 1430	***1. Received By:***	***Date:***	***Time:***
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***	
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:*** 7/13/11	0915
Comments					

T = 3.0°C

1082

3

116077

[redacted]

Chain of Custody Record

EMAX LABORATORIES, INC.

1835 W. 205th Street, Torrance, CA 90501
Tel. # (310)-618-8899
FAX# (310) 618-0818

Client	Project Manager			Date	Chain of Custody Number
CH2M HILL, Inc.	John Ynfante			July 12-2011	2of2
Address	**Telephone Number**	**Fax Number**			
14701 St. Mary's Lane, Suite 300	(281) 721-8546	(281) 721-8401			
City/State/Zip	**Site Contact:**	**PO Number:**	**EMAX Control Number**		
Houston, TX 77079	John Ynfante	Contact John Ynfante			
Project Name	**Carrier/Waybill Numbe**	**CH2M HILL Project Number:**			
Tar Creek OU4		413831.CV.01			
Samplers:					
Various CH2M HILL personnel					

	Sample I.D. No. and Description	Date	Time	Container Size	Container Type	Container No.	Preservative	Matrix	PB	Zn	um Only					Comments
17	CB223-10-01	7/7/2011	1115	4oz	Glass	2	ICE	Soil			x					
18	CB223-10-02	7/7/2011	1120	4oz	Glass	2	ICE	Soil			x					
19	CB223-11-01	7/7/2011	1055	4oz	Glass	2	ICE	Soil			x					
20	CB223-11-02	7/7/2011	1100	4oz	Glass	2	ICE	Soil			x					
21	CB223-11-02FD	7/7/2011	1100	4oz	Glass	2	ICE	Soil			x					
22	CB223-12-01	7/7/2011	1038	4oz	Glass	2	ICE	Soil			x					
23	CB223-12-02	7/7/2011	1042	4oz	Glass	2	ICE	Soil			x					
24	CB223-13-01	7/7/2011	1025	4oz	Glass	2	ICE	Soil			x					
				4oz	Glass	2	ICE	Soil								
				4oz	Glass	2	ICE	Soil								
				4oz	Glass	2	ICE	Soil								
				4oz	Glass	2	ICE	Soil								
				4oz	Glass	2	ICE	Soil								
				4oz	Glass	2	ICE	Soil								
				4oz	Glass	2	ICE	Soil								
				4oz	Glass	2	ICE	Soil								

Turnaround Time

21 *Days* **UNLESS BOLDED. 3 DAY TAT FOR BOLDED SAMPLES**

1. Relinquished By Scott Porter CH2M HILL	***Date:*** 7/12/2011	***Time:*** 1430	***1. Received By:***	***Date:*** ***Time:***
2. Relinquished By	***Date:***	***Time:***	***2. Received By:***	***Date:***
3. Relinquished By	***Date:***	***Time:***	***3. Received By:***	***Date:*** 7/13/11 0915

Comments

T = 3.0°C

1095

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 116077
☐ EMAX Courier		Recepient J-LVNA
☐ Client Delivery		Date 7-13-11
☑ Third Party FEDEX	797295350353	Time 09:15

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☐ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures (Cool, =6 °C but not frozen)	A ☑ Cooler 1 3.0 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

Note: **pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/~~COC~~ID	Discrepancy Code	Corrective Action Code
-21		CB223-11-01FD	B3	R5, R6
		1055	D3	
01-24			H1	R5, R6

REVIEWS

Sample Labeling [signature] Date 7/13/11 PCMB

SRF [signature] Date 7/13/11

PM [signature] Date 7/14/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4		E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	Informed client
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	See attached email
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm		
B4		G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1	NOTE: RECVD 1 JAR = 1 XRF CONTAINER		
C4		H2			

Linh Pham

From: John.Ynfante@CH2M.com
Sent: Wednesday, July 13, 2011 10:27 PM
To: Ye Myint
Cc: Linh Pham
Subject: RE: Samples received today (Tar Creek)

Confirmed – please change the information on the chain for that sample to CB223-11-01FD collected at 10:55

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Wednesday, July 13, 2011 8:26 PM
To: Ynfante, John/HOU
Cc: Linh Pham
Subject: RE: Samples received today (Tar Creek)

Thanks. We will wait to finalize the logins until tomorrow.

Ye
310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Wednesday, July 13, 2011 5:14 PM
To: Ye Myint
Cc: Linh Pham
Subject: RE: Samples received today (Tar Creek)

I believe the ID and time on the jar are correct and the information on the chain should be changed to match it, but I am confirming that with the sampler. I should be able to let you know for sure tomorrow.

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Wednesday, July 13, 2011 6:21 PM
To: Ynfante, John/HOU
Cc: Linh Pham
Subject: RE: Samples received today (Tar Creek)

CB223-11-01FD

Ye
310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Wednesday, July 13, 2011 4:17 PM
To: Ye Myint
Cc: Linh Pham
Subject: RE: Samples received today (Tar Creek)

Ye,

Please proceed with total lead on 11G079 without drying/sieving – those samples are chat characterization samples.

On G077-21 what is the sample ID listed on the jar label?

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Wednesday, July 13, 2011 12:57 PM
To: Ynfante, John/HOU
Cc: Linh Pham
Subject: Samples received today (Tar Creek)

John,

Attached are the COCs/SRFs information for SDGs: 11G077 and 11G079. A few discrepancies were noted. '

11G077

- Please verify the sample ID for G077-21. The ID on label does not match the one in the COC. Collection time also shows 10:55 on label matching collection time of CB223-11-01 instead of CB223-11-02.

-XRF cups will be used for the parameters. Samples will be dried and sieved for Pb.

11G079

- No XRF cups were received. Please confirm that we do not need to dry and sieve the samples prior to analysis for this SDG. Thanks.

Thanks.

Ye Myint
Project Manager
EMAX Laboratories, Inc.
1835W 205th. St.
Torrance, CA 90501
Ph: 310-618-8889 x121
Fax: 310-618-0818
E-mail: <mailto:ymyint@emaxlabs.com> ymyint@emaxlabs.com <mailto:ymyint@emaxlabs.com>

Linh Pham

From: Ye Myint
Sent: Tuesday, July 12, 2011 12:06 PM
To: Mary J Mendoza
Cc: Linh Pham
Subject: FW: tar Creek samples and custody seals
Importance: High

FYI on the TAT. Thanks.

Ye

310-618-8889 x121

From: John.Ynfante@CH2M.com [mailto:John.Ynfante@CH2M.com]
Sent: Tuesday, July 12, 2011 11:21 AM
To: Ye Myint
Subject: tar Creek samples and custody seals
Importance: High

Ye,

We need some more custody seals out at Tar Creek – could you please have someone send another 200 or so to the following address? Please ship for overnight delivery – you can use our Fed-Ex account number.

SHIP TO:
ATTN: Kendra Waltermire
Hampton Inn
115 South Deacon Turner Road
Miami, OK 74354
(618)514-2101

Also, you should receive some more Tar Creek samples today or tomorrow and there will be a couple of samples that I need to get rushed on a 3-day TAT. Please rush the following:
CB156-12-01 for zinc and cadmium
CB134-03-01 for zinc and cadmium

Thanks!

John Ynfante
CH2M HILL
14701 St. Mary's Lane, Suite 300
Houston, Texas 77079-2923
Direct: 281-721-3546
www.ch2mhill.com
John.Ynfante@ch2m.com

Ye Myint

From: John.Ynfante@CH2M.com
Sent: Wednesday, July 13, 2011 10:27 PM
To: Ye Myint
Cc: Linh Pham
Subject: RE: Samples received today (Tar Creek)

Confirmed – please change the information on the chain for that sample to CB223-11-01FD collected at 10:55

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Wednesday, July 13, 2011 8:26 PM
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Cc: Linh Pham
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Thanks. We will wait to finalize the logins until tomorrow.

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To: Ye Myint
Cc: Linh Pham
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To: Ynfante, John/HOU
Cc: Linh Pham
Subject: RE: Samples received today (Tar Creek)

CB223-11-01FD

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310-618-8889 x121

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11G079

- No XRF cups were received. Please confirm that we do not need to dry and sieve the samples prior to analysis for this SDG. Thanks.

Thanks.

Ye Myint
Project Manager
EMAX Laboratories, Inc.
1835W 205th. St.
Torrance, CA 90501
Ph: 310-618-8889 x121
Fax: 310-618-0818
E-mail: <mailto:ymyint@emaxlabs.com> ymyint@emaxlabs.com <mailto:ymyint@emaxlabs.com>

From: (916) 747-2986
Richy Ricks
CH2M HILL
2485 Natomas Park Drive
Suite 600
Sacramento, CA 95833

Origin ID: SMFA

FedEx Express

J11201104290225

Ship Date: 12JUL11
ActWgt: 56.5 LB
CAD: 6300065/WBUS0200

Dims: 24 X 13 X 13 IN

Delivery Address Bar Code

SHIP TO: (310) 618-8889

BILL SENDER

Sample Recieving
E MAX Laboratories, Inc.
1835 W. 205th Street

Torrance, CA 90501

Ref # 413831.rv.01/AAA00006605
Invoice #
PO #
Dept #

HE077

WED - 13 JUL A1
PRIORITY OVERNIGHT

TRK# 7972 9535 0353
0201

90 AVXA

90501
CA-US
LAX

50FG2/F556/F5F4

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the first printed page in half and use as the shipping label. The second page is for your records, and contains both the terms and conditions of shipping, and information useful for tracking your package.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

1810

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

CH2M HILL

TAR CREEK OU4

METALS

SDG#: 11G077

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11G077

METHOD 3050B/6010B
METALS BY TRACE ICP

A total of twenty-four (24) soil samples were received on 07/13/11 for Metals analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary forms for details.

Lab Control Sample
Two (2) sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries for IPG026SL/C were all within QC limits.
Percent recoveries for IPG027SL/C were all within QC limits.

Matrix QC Sample
Matrix QC samples were analyzed at the frequency prescribed by the project.
Percent recoveries for G077-01G/H were within project QC limits.
Percent recoveries for G077-24M/S were within project QC limits.
In addition, analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
METALS BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11G077
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPG026SQ	1	NA	07/15/1118:09	07/14/1113:27	ID8G011033	ID8G011031	IPG026S	Method Blank
LCS1S	IPG026SL	1	NA	07/14/1122:23	07/14/1113:27	ID8G009135	ID8G009132	IPG026S	Lab Control Sample (LCS)
LCD1S	IPG026SC	1	NA	07/14/1122:26	07/14/1113:27	ID8G009136	ID8G009132	IPG026S	LCS Duplicate
CB231-20-01AS	G077-01A	9.90	11.7	07/15/1118:12	07/14/1113:27	ID8G011034	ID8G011031	IPG026S	Analytical Spike Sample
CB231-20-01	G077-01T	9.90	11.7	07/15/1118:15	07/14/1113:27	ID8G011035	ID8G011031	IPG026S	Diluted Sample
CB231-20-01DL	G077-01J	49.5	11.7	07/15/1118:18	07/14/1113:27	ID8G011036	ID8G011031	IPG026S	Diluted Sample
CB134-03-01	G077-05	0.935	10.5	07/14/1123:01	07/14/1113:27	ID8G009148	ID8G009144	IPG026S	Field Sample
CB156-12-01	G077-09	0.980	11.1	07/14/1123:13	07/14/1113:27	ID8G009152	ID8G009144	IPG026S	Field Sample
CB223-13-02	G077-16	0.926	16.7	07/14/1123:43	07/14/1113:27	ID8G009162	ID8G009156	IPG026S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 13:40
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB134-03-01	Date Analyzed:	07/14/11 23:01
Lab Samp ID:	G077-05	Dilution Factor:	0.935
Lab File ID:	ID8G009148	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	10.5
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	7.08	1.04	0.209
Zinc	1180	2.09	1.04

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 15:45
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB156-12-01	Date Analyzed:	07/14/11 23:13
Lab Samp ID:	G077-09	Dilution Factor:	0.980
Lab File ID:	ID8G009152	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	11.1
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	7.10	1.10	0.220
Zinc	1250	2.20	1.10

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 10:30
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB223-13-02	Date Analyzed:	07/14/11 23:43
Lab Samp ID:	G077-16	Dilution Factor:	0.926
Lab File ID:	ID8G009162	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	16.7
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.10	1.11	0.222
Zinc	2300	2.22	1.11

METHOD 3050B/6010B
METALS BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	07/14/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	MBLK1S	Date Analyzed:	07/15/11 18:09
Lab Samp ID:	IPG026SQ	Dilution Factor:	1
Lab File ID:	ID8G011033	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	NA
Calib. Ref.:	ID8G011031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200
Zinc	ND	2.00	1.00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPG026SQ	IPG026SL	IPG026SC		
LAB FILE ID:	ID8G011033	ID8G009135	ID8G009136		
DATIME EXTRCTD:	07/14/1113:27	07/14/1113:27	07/14/1113:27	DATE COLLECTED:	NA
DATIME ANALYZD:	07/15/1118:09	07/14/1122:23	07/14/1122:26	DATE RECEIVED:	07/14/11
PREP. BATCH:	IPG026S	IPG026S	IPG026S		
CALIB. REF:	ID8G011031	ID8G009132	ID8G009132		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	52.9	106	50	53.5	107	1	80-120	20
Zinc	ND	50	55.2	110	50	56.2	112	2	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	11.7
DILUTION FACTOR:	9.90	49.5		
SAMPLE ID:	CB231-20-01	CB231-20-01DL		
EMAX SAMP ID:	G077-01T	G077-01J		
LAB FILE ID:	ID8G011035	ID8G011036		
DATE EXTRACTED:	07/14/1113:27	07/14/1113:27	DATE COLLECTED:	06/28/11 08:50
DATE ANALYZED:	07/15/1118:15	07/15/1118:18	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG026S	IPG026S		
CALIB. REF:	ID8G011031	ID8G011031		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	34.4	35.2J	NA	10
Zinc	6300	6480	3	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	11.7
DILTN FACTR:	9.90	9.90		
SAMPLE ID:	CB231-20-01			
CONTROL NO.:	G077-01T	G077-01A		
LAB FILE ID:	ID8G011035	ID8G011034		
DATIME EXTRCTD:	07/14/1113:27	07/14/1113:27	DATE COLLECTED:	06/28/11 08:50
DATIME ANALYZD:	07/15/1118:15	07/15/1118:12	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG026S	IPG026S		
CALIB. REF:	ID8G011031	ID8G011031		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	34.4	561	608	102	75-125
Zinc	6300	561	6940	115	75-125

LAB CHRONICLE
CADMIUM BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11G077
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPG026SQ	1	NA	07/15/1118:09	07/14/1113:27	ID8G011033	ID8G011031	IPG026S	Method Blank
LCS1S	IPG026SL	1	NA	07/14/1122:23	07/14/1113:27	ID8G009135	ID8G009132	IPG026S	Lab Control Sample (LCS)
LCD1S	IPG026SC	1	NA	07/14/1122:26	07/14/1113:27	ID8G009136	ID8G009132	IPG026S	LCS Duplicate
CB231-20-01AS	G077-01A	9.90	11.7	07/15/1118:12	07/14/1113:27	ID8G011034	ID8G011031	IPG026S	Analytical Spike Sample
CB231-20-01	G077-01T	9.90	11.7	07/15/1118:15	07/14/1113:27	ID8G011035	ID8G011031	IPG026S	Diluted Sample
CB231-20-01DL	G077-01J	49.5	11.7	07/15/1118:18	07/14/1113:27	ID8G011036	ID8G011031	IPG026S	Diluted Sample
CB231-20-01MS	G077-01G	9.71	11.7	07/15/1118:21	07/14/1113:27	ID8G011037	ID8G011031	IPG026S	Matrix Spike Sample (MS)
CB231-20-01MSD	G077-01H	9.62	11.7	07/15/1118:24	07/14/1113:27	ID8G011038	ID8G011031	IPG026S	MS Duplicate (MSD)
CB231-20-02	G077-02	0.935	13.4	07/14/1122:43	07/14/1113:27	ID8G009142	ID8G009132	IPG026S	Field Sample
CB231-19-01	G077-03	0.990	7.3	07/14/1122:55	07/14/1113:27	ID8G009146	ID8G009144	IPG026S	Field Sample
CB231-19-02	G077-04	0.990	8.6	07/14/1122:58	07/14/1113:27	ID8G009147	ID8G009144	IPG026S	Field Sample
CB134-03-02	G077-06	0.971	11.8	07/14/1123:04	07/14/1113:27	ID8G009149	ID8G009144	IPG026S	Field Sample
CB134-04-01	G077-07	0.943	7.2	07/14/1123:07	07/14/1113:27	ID8G009150	ID8G009144	IPG026S	Field Sample
CB134-04-02	G077-08	0.962	8.3	07/14/1123:10	07/14/1113:27	ID8G009151	ID8G009144	IPG026S	Field Sample
CB156-12-02	G077-10	0.943	7.9	07/14/1123:16	07/14/1113:27	ID8G009153	ID8G009144	IPG026S	Field Sample
CB156-13-01	G077-11	0.962	11.2	07/14/1123:19	07/14/1113:27	ID8G009154	ID8G009144	IPG026S	Field Sample
CB156-13-02	G077-12	0.935	9.5	07/14/1123:31	07/14/1113:27	ID8G009158	ID8G009156	IPG026S	Field Sample
CB156-11-01	G077-13	0.980	10.6	07/14/1123:34	07/14/1113:27	ID8G009159	ID8G009156	IPG026S	Field Sample
CB156-11-02	G077-14	0.971	7.3	07/14/1123:37	07/14/1113:27	ID8G009160	ID8G009156	IPG026S	Field Sample
CB156-11-02FD	G077-15	0.962	7.5	07/14/1123:40	07/14/1113:27	ID8G009161	ID8G009156	IPG026S	Field Sample
CB223-10-01	G077-17	0.935	12.9	07/14/1123:46	07/14/1113:27	ID8G009163	ID8G009156	IPG026S	Field Sample
CB223-10-02	G077-18	0.935	11.3	07/14/1123:49	07/14/1113:27	ID8G009164	ID8G009156	IPG026S	Field Sample
CB223-11-01	G077-19	0.926	11.0	07/14/1123:52	07/14/1113:27	ID8G009165	ID8G009156	IPG026S	Field Sample
MBLK2S	IPG027SB	1	NA	07/15/1119:11	07/15/1110:25	ID8G011054	ID8G011052	IPG027S	Method Blank
LCS2S	IPG027SL	1	NA	07/15/1119:15	07/15/1110:25	ID8G011055	ID8G011052	IPG027S	Lab Control Sample (LCS)
LCD2S	IPG027SC	1	NA	07/15/1119:17	07/15/1110:25	ID8G011056	ID8G011052	IPG027S	LCS Duplicate
CB223-13-01AS	G077-24A	0.935	16.2	07/15/1119:29	07/15/1110:25	ID8G011060	ID8G011052	IPG027S	Analytical Spike Sample
CB223-13-01	G077-24	0.935	16.2	07/15/1119:32	07/15/1110:25	ID8G011061	ID8G011052	IPG027S	Field Sample
CB223-13-01DL	G077-24J	4.67	16.2	07/15/1119:35	07/15/1110:25	ID8G011062	ID8G011052	IPG027S	Diluted Sample
CB223-13-01MS	G077-24M	0.926	16.2	07/15/1119:46	07/15/1110:25	ID8G011066	ID8G011064	IPG027S	Matrix Spike Sample (MS)
CB223-13-01MSD	G077-24S	0.926	16.2	07/15/1119:49	07/15/1110:25	ID8G011067	ID8G011064	IPG027S	MS Duplicate (MSD)
CB223-11-02	G077-20	0.971	17.3	07/15/1119:52	07/15/1110:25	ID8G011068	ID8G011064	IPG027S	Field Sample
CB223-11-01FD	G077-21	0.962	11.0	07/15/1119:55	07/15/1110:25	ID8G011069	ID8G011064	IPG027S	Field Sample
CB223-12-01	G077-22	0.926	24.8	07/15/1119:59	07/15/1110:25	ID8G011070	ID8G011064	IPG027S	Field Sample
CB223-12-02	G077-23	0.943	16.6	07/15/1120:01	07/15/1110:25	ID8G011071	ID8G011064	IPG027S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 08:50
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB231-20-01	Date Analyzed:	07/15/11 18:15
Lab Samp ID:	G077-01T	Dilution Factor:	9.90
Lab File ID:	ID8G011035	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	11.7
Calib. Ref.:	ID8G011031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	34.4	11.2	2.24

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 08:55
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB231-20-02	Date Analyzed:	07/14/11 22:43
Lab Samp ID:	G077-02	Dilution Factor:	0.935
Lab File ID:	ID8G009142	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	13.4
Calib. Ref.:	ID8G009132	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	19.6	1.08	0.216

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 09:40
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB231-19-01	Date Analyzed:	07/14/11 22:55
Lab Samp ID:	G077-03	Dilution Factor:	0.990
Lab File ID:	ID8G009146	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	7.3
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	9.01	1.07	0.214

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 09:45
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB231-19-02	Date Analyzed:	07/14/11 22:58
Lab Samp ID:	G077-04	Dilution Factor:	0.990
Lab File ID:	ID8G009147	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	8.6
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	11.9	1.08	0.217

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 13:45
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB134-03-02	Date Analyzed:	07/14/11 23:04
Lab Samp ID:	G077-06	Dilution Factor:	0.971
Lab File ID:	ID8G009149	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	11.8
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.62	1.10	0.220

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 14:30
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB134-04-01	Date Analyzed:	07/14/11 23:07
Lab Samp ID:	G077-07	Dilution Factor:	0.943
Lab File ID:	ID8G009150	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	7.2
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.70	1.02	0.203

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 14:35
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB134-04-02	Date Analyzed:	07/14/11 23:10
Lab Samp ID:	G077-08	Dilution Factor:	0.962
Lab File ID:	ID8G009151	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	8.3
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.632J	1.05	0.210

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 15:50
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB156-12-02	Date Analyzed:	07/14/11 23:16
Lab Samp ID:	G077-10	Dilution Factor:	0.943
Lab File ID:	ID8G009153	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	7.9
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.23	1.02	0.205

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 16:35
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB156-13-01	Date Analyzed:	07/14/11 23:19
Lab Samp ID:	G077-11	Dilution Factor:	0.962
Lab File ID:	ID8G009154	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	11.2
Calib. Ref.:	ID8G009144	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	1.39	1.08	0.217

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 16:40
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB156-13-02	Date Analyzed:	07/14/11 23:31
Lab Samp ID:	G077-12	Dilution Factor:	0.935
Lab File ID:	ID8G009158	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	9.5
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.423J	1.03	0.207

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 14:40
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB156-11-01	Date Analyzed:	07/14/11 23:34
Lab Samp ID:	G077-13	Dilution Factor:	0.980
Lab File ID:	ID8G009159	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	10.6
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	19.0	1.10	0.219

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 14:45
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB156-11-02	Date Analyzed:	07/14/11 23:37
Lab Samp ID:	G077-14	Dilution Factor:	0.971
Lab File ID:	ID8G009160	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	7.3
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.402J	1.05	0.209

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 14:45
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB156-11-02FD	Date Analyzed:	07/14/11 23:40
Lab Samp ID:	G077-15	Dilution Factor:	0.962
Lab File ID:	ID8G009161	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	7.5
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	0.402J	1.04	0.208

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 11:15
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB223-10-01	Date Analyzed:	07/14/11 23:46
Lab Samp ID:	G077-17	Dilution Factor:	0.935
Lab File ID:	ID8G009163	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	12.9
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	90.7	1.07	0.215

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 11:20
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB223-10-02	Date Analyzed:	07/14/11 23:49
Lab Samp ID:	G077-18	Dilution Factor:	0.935
Lab File ID:	ID8G009164	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	11.3
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	118	1.05	0.211

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 10:55
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	CB223-11-01	Date Analyzed:	07/14/11 23:52
Lab Samp ID:	G077-19	Dilution Factor:	0.926
Lab File ID:	ID8G009165	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	11.0
Calib. Ref.:	ID8G009156	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	172	1.04	0.208

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 11:00
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 10:25
Sample ID:	CB223-11-02	Date Analyzed:	07/15/11 19:52
Lab Samp ID:	G077-20	Dilution Factor:	0.971
Lab File ID:	ID8G011068	Matrix :	SOIL
Ext Btch ID:	IPG027S	% Moisture :	17.3
Calib. Ref.:	ID8G011064	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	51.4	1.17	0.235

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 10:55
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 10:25
Sample ID:	CB223-11-01FD	Date Analyzed:	07/15/11 19:55
Lab Samp ID:	G077-21	Dilution Factor:	0.962
Lab File ID:	ID8G011069	Matrix :	SOIL
Ext Btch ID:	IPG027S	% Moisture :	11.0
Calib. Ref.:	ID8G011064	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	165	1.08	0.216

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 10:38
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 10:25
Sample ID:	CB223-12-01	Date Analyzed:	07/15/11 19:59
Lab Samp ID:	G077-22	Dilution Factor:	0.926
Lab File ID:	ID8G011070	Matrix :	SOIL
Ext Btch ID:	IPG027S	% Moisture :	24.8
Calib. Ref.:	ID8G011064	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	29.5	1.23	0.246

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 10:42
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 10:25
Sample ID:	CB223-12-02	Date Analyzed:	07/15/11 20:01
Lab Samp ID:	G077-23	Dilution Factor:	0.943
Lab File ID:	ID8G011071	Matrix :	SOIL
Ext Btch ID:	IPG027S	% Moisture :	16.6
Calib. Ref.:	ID8G011064	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	16.8	1.13	0.226

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 10:25
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 10:25
Sample ID:	CB223-13-01	Date Analyzed:	07/15/11 19:32
Lab Samp ID:	G077-24	Dilution Factor:	0.935
Lab File ID:	ID8G011061	Matrix :	SOIL
Ext Btch ID:	IPG027S	% Moisture :	16.2
Calib. Ref.:	ID8G011052	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	2.71	1.12	0.223

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	07/14/11
SDG NO.	: 11G077	Date Extracted:	07/14/11 13:27
Sample ID:	MBLK1S	Date Analyzed:	07/15/11 18:09
Lab Samp ID:	IPG026SQ	Dilution Factor:	1
Lab File ID:	ID8G011033	Matrix :	SOIL
Ext Btch ID:	IPG026S	% Moisture :	NA
Calib. Ref.:	ID8G011031	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPG026SQ	IPG026SL	IPG026SC		
LAB FILE ID:	ID8G011033	ID8G009135	ID8G009136		
DATIME EXTRCTD:	07/14/1113:27	07/14/1113:27	07/14/1113:27	DATE COLLECTED:	NA
DATIME ANALYZD:	07/15/1118:09	07/14/1122:23	07/14/1122:26	DATE RECEIVED:	07/14/11
PREP. BATCH:	IPG027S	IPG027S	IPG027S		
CALIB. REF:	ID8G011031	ID8G009132	ID8G009132		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	52.9	106	50	53.5	107	1	80-120	20

METHOD 3050B/6010B
CADMIUM BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	07/15/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 10:25
Sample ID:	MBLK2S	Date Analyzed:	07/15/11 19:11
Lab Samp ID:	IPG027SB	Dilution Factor:	1
Lab File ID:	ID8G011054	Matrix :	SOIL
Ext Btch ID:	IPG027S	% Moisture :	NA
Calib. Ref.:	ID8G011052	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Cadmium	ND	1.00	0.200

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	IPG027SB	IPG027SL	IPG027SC		
LAB FILE ID:	ID8G011054	ID8G011055	ID8G011056		
DATIME EXTRCTD:	07/15/1110:25	07/15/1110:25	07/15/1110:25	DATE COLLECTED:	NA
DATIME ANALYZD:	07/15/1119:11	07/15/1119:15	07/15/1119:17	DATE RECEIVED:	07/15/11
PREP. BATCH:	IPG027S	IPG027S	IPG027S		
CALIB. REF:	ID8G011052	ID8G011052	ID8G011052		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	ND	50	50	100	50	50.8	102	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	11.7
DILTN FACTR:	9.90	9.71	9.62		
SAMPLE ID:	CB231-20-01				
CONTROL NO.:	G077-01T	G077-01G	G077-01H		
LAB FILE ID:	ID8G011035	ID8G011037	ID8G011038		
DATIME EXTRCTD:	07/14/1113:27	07/14/1113:27	07/14/1113:27	DATE COLLECTED:	06/28/11 08:50
DATIME ANALYZD:	07/15/1118:15	07/15/1118:21	07/15/1118:24	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG027S	IPG027S	IPG027S		
CALIB. REF:	ID8G011031	ID8G011031	ID8G011031		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	34.4	55	89.9	101	54.5	99.8	120	10	75-125	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	16.2
DILTN FACTR:	0.935	0.926	0.926		
SAMPLE ID:	CB223-13-01				
CONTROL NO.:	G077-24	G077-24M	G077-24S		
LAB FILE ID:	ID8G011061	ID8G011066	ID8G011067		
DATIME EXTRCTD:	07/15/1110:25	07/15/1110:25	07/15/1110:25	DATE COLLECTED:	07/07/11 10:25
DATIME ANALYZD:	07/15/1119:32	07/15/1119:46	07/15/1119:49	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG027S	IPG027S	IPG027S		
CALIB. REF:	ID8G011052	ID8G011064	ID8G011064		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Cadmium	2.71	55.3	57	98	55.3	56.9	98	0	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	11.7
DILUTION FACTOR:	9.90	49.5		
SAMPLE ID:	CB231-20-01	CB231-20-01DL		
EMAX SAMP ID:	G077-01T	G077-01J		
LAB FILE ID:	ID8G011035	ID8G011036		
DATE EXTRACTED:	07/14/1113:27	07/14/1113:27	DATE COLLECTED:	06/28/11 08:50
DATE ANALYZED:	07/15/1118:15	07/15/1118:18	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG026S	IPG026S		
CALIB. REF:	ID8G011031	ID8G011031		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	34.4	35.2J	NA	10

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.2
DILUTION FACTOR:	0.935	4.67		
SAMPLE ID:	CB223-13-01	CB223-13-01DL		
EMAX SAMP ID:	G077-24	G077-24J		
LAB FILE ID:	ID8G011061	ID8G011062		
DATE EXTRACTED:	07/15/1110:25	07/15/1110:25	DATE COLLECTED:	07/07/11 10:25
DATE ANALYZED:	07/15/1119:32	07/15/1119:35	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG027S	IPG027S		
CALIB. REF:	ID8G011052	ID8G011052		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Cadmium	2.71	2.65J	NA	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	11.7
DILTN FACTR:	9.90	9.90		
SAMPLE ID:	CB231-20-01			
CONTROL NO.:	G077-01T	G077-01A		
LAB FILE ID:	ID8G011035	ID8G011034		
DATIME EXTRCTD:	07/14/1113:27	07/14/1113:27	DATE COLLECTED:	06/28/11 08:50
DATIME ANALYZD:	07/15/1118:15	07/15/1118:12	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG027S	IPG027S		
CALIB. REF:	ID8G011031	ID8G011031		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	34.4	561	608	102	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.2
DILTN FACTR:	0.935	0.935		
SAMPLE ID:	CB223-13-01			
CONTROL NO.:	G077-24	G077-24A		
LAB FILE ID:	ID8G011061	ID8G011060		
DATIME EXTRCTD:	07/15/1110:25	07/15/1110:25	DATE COLLECTED:	07/07/11 10:25
DATIME ANALYZD:	07/15/1119:32	07/15/1119:29	DATE RECEIVED:	07/13/11
PREP. BATCH:	IPG027S	IPG027S		
CALIB. REF:	ID8G011052	ID8G011052		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Cadmium	2.71	55.8	57.2	98	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 7/14/11 15:36

End Date: 7/15/11 00:01

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	2
☐ EMAX-	

Book #: AD8-020

Instrument No.: D8

Analytical Batch: 11D86009

Analytical Sequence: S-1166010(V19)

Method File: 1166010(V19)

Database: Emax14

Comments:

- IEC update for As↗ICSA↑, Cd, Pb, Ni, K
- CCV2 ↓TI
- CCB2 failed. No carrier rinse!
- 607502 Mg, K, Na 7LDR. IS↓.
- CCB10 K, Na 73X1DL. 606402→708 needs rerun.
- 607701 } 17, 18, 19 } Zn 7LDR.

	STANDARDS ID		STANDARDS ID
S0	SMIB1146701	S30	SMIB1144201
S1	NA	S31	4202
S2		ICV	5412
S3		CCV	6302
S4		ICSA	5201
S5		ICSAB	6704
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1,3	SMIB1146501
S10		MRL2,4	5302
S11			
S12			
S16			
S17			
S18			
S20	SMIB1146301		
S21	6503		
S22	6504		
S23	6402		
S24	6702		
S25	6703		
S26	5401		
S27	5402		
S28	5701		
S29	5702		

Analyzed By: TH

Date: 7/15/11

SEQUENCE FILE : ID8G009

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8G009001	Blank	15:36	07/14/11	1.000
ID8G009002	S20	15:39	07/14/11	1.000
ID8G009003	S21	15:42	07/14/11	1.000
ID8G009004	S22	15:45	07/14/11	1.000
ID8G009005	S23	15:48	07/14/11	1.000
ID8G009006	S24	15:51	07/14/11	1.000
ID8G009007	S25	15:54	07/14/11	1.000
ID8G009008	S26	15:57	07/14/11	1.000
ID8G009009	S27	16:00	07/14/11	1.000
ID8G009010	S28	16:04	07/14/11	1.000
ID8G009011	S29	16:07	07/14/11	1.000
ID8G009012	S30	16:10	07/14/11	1.000
ID8G009013	S31	16:13	07/14/11	1.000
ID8G009014	ICV	16:16	07/14/11	1.000
ID8G009015	ICB	16:18	07/14/11	1.000
ID8G009016	ICSA1	16:22	07/14/11	1.000
ID8G009017	ICSAB1	16:25	07/14/11	1.000
ID8G009018	Blank	16:28	07/14/11	1.000
ID8G009019	MRLG1401	16:31	07/14/11	1.000
ID8G009020	MRLG1402	16:34	07/14/11	1.000
ID8G009021	CCV1	16:37	07/14/11	1.000
ID8G009022	CCB1	16:40	07/14/11	1.000
ID8G009023	IPG016WB	16:44	07/14/11	1.000
ID8G009024	IPG016WL	16:47	07/14/11	1.000
ID8G009025	IPG016WC	16:50	07/14/11	1.000
ID8G009026	G001-10A	16:52	07/14/11	1.000
ID8G009027	G001-10	16:55	07/14/11	1.000
ID8G009028	G001-10J	16:58	07/14/11	5.000
ID8G009029	G001-10M	17:01	07/14/11	1.000
ID8G009030	G001-10S	17:04	07/14/11	1.000
ID8G009031	G001-02	17:07	07/14/11	1.000
ID8G009032	Blank	17:10	07/14/11	1.000
ID8G009033	CCV2	17:13	07/14/11	1.000
ID8G009034	CCB2	17:16	07/14/11	1.000
ID8G009035	G001-03	17:19	07/14/11	1.000
ID8G009036	Blank	17:25	07/14/11	1.000
ID8G009037	CCV3	17:28	07/14/11	1.000
ID8G009038	CCB3	17:30	07/14/11	1.000
ID8G009039	IPG016WQ	17:39	07/14/11	1.000
ID8G009040	IPG016WX	17:42	07/14/11	1.000
ID8G009041	IPG016WY	17:45	07/14/11	1.000
ID8G009042	G001-10A	17:48	07/14/11	1.000
ID8G009043	G001-10W	17:51	07/14/11	1.000
ID8G009044	G001-10J	17:54	07/14/11	5.000
ID8G009045	G001-10G	17:57	07/14/11	1.000
ID8G009046	G001-10H	18:00	07/14/11	1.000
ID8G009047	G001-02W	18:02	07/14/11	1.000
ID8G009048	Blank	18:05	07/14/11	1.000
ID8G009049	CCV4	18:08	07/14/11	1.000
ID8G009050	CCB4	18:11	07/14/11	1.000
ID8G009051	G001-03W	18:14	07/14/11	1.000
ID8G009052	G001-04	18:17	07/14/11	1.000
ID8G009053	G001-05	18:20	07/14/11	1.000
ID8G009054	G001-06	18:23	07/14/11	1.000

ID8G009055	G001-07	18:26	07/14/11	1.000
ID8G009056	G001-08	18:29	07/14/11	1.000
ID8G009057	G001-09	18:32	07/14/11	1.000
ID8G009058	G001-11	18:35	07/14/11	1.000
ID8G009059	G001-12	18:38	07/14/11	1.000
ID8G009060	Blank	18:41	07/14/11	1.000
ID8G009061	CCV5	18:44	07/14/11	1.000
ID8G009062	CCB5	18:47	07/14/11	1.000
ID8G009063	IPG023SB	18:50	07/14/11	1.000
ID8G009064	IPG023SL	18:53	07/14/11	1.000
ID8G009065	IPG023SC	18:56	07/14/11	1.000
ID8G009066	IPG022WB	18:59	07/14/11	1.000
ID8G009067	IPG022WL	19:02	07/14/11	1.000
ID8G009068	IPG022WC	19:04	07/14/11	1.000
ID8G009069	LODV-01	19:07	07/14/11	1.000
ID8G009070	LOQV-01	19:10	07/14/11	1.000
ID8G009071	LOQV-01	19:13	07/14/11	1.000
ID8G009072	Blank	19:16	07/14/11	1.000
ID8G009073	CCV6	19:19	07/14/11	1.000
ID8G009074	CCB6	19:22	07/14/11	1.000
ID8G009075	LODV-01	19:25	07/14/11	1.000
ID8G009076	LOQV-01	19:28	07/14/11	1.000
ID8G009077	LOQV-01	19:31	07/14/11	1.000
ID8G009078	Blank	19:34	07/14/11	1.000
ID8G009079	MRLG1403	19:37	07/14/11	1.000
ID8G009080	MRLG1404	19:40	07/14/11	1.000
ID8G009081	CCV7	19:43	07/14/11	1.000
ID8G009082	CCB7	19:46	07/14/11	1.000
ID8G009083	G433-01	19:49	07/14/11	1.000
ID8G009084	G451-01T	19:52	07/14/11	5.000
ID8G009085	G451-02T	19:55	07/14/11	5.000
ID8G009086	G433-02T	19:58	07/14/11	5.000
ID8G009087	Blank	20:01	07/14/11	1.000
ID8G009088	CCV8	20:04	07/14/11	1.000
ID8G009089	CCB8	20:07	07/14/11	1.000
ID8G009090	IPG025WB	20:10	07/14/11	1.000
ID8G009091	IPG025WL	20:13	07/14/11	1.000
ID8G009092	IPG025WC	20:16	07/14/11	1.000
ID8G009093	G069-09A	20:18	07/14/11	1.000
ID8G009094	G069-09	20:21	07/14/11	1.000
ID8G009095	G069-09J	20:24	07/14/11	5.000
ID8G009096	G069-09M	20:27	07/14/11	1.000
ID8G009097	G069-09S	20:30	07/14/11	1.000
ID8G009098	G069-01	20:33	07/14/11	1.000
ID8G009099	Blank	20:36	07/14/11	1.000
ID8G009100	CCV9	20:39	07/14/11	1.000
ID8G009101	CCB9	20:41	07/14/11	1.000
ID8G009102	G069-02	20:44	07/14/11	1.000
ID8G009103	G069-03	20:47	07/14/11	1.000
ID8G009104	G069-04	20:50	07/14/11	1.000
ID8G009105	G069-05	20:53	07/14/11	1.000
ID8G009106	G069-06	20:56	07/14/11	1.000
ID8G009107	G069-07	20:59	07/14/11	1.000
ID8G009108	G069-08	21:02	07/14/11	1.000
ID8G009109	G075-02	21:05	07/14/11	1.000
ID8G009110	Blank	21:09	07/14/11	1.000
ID8G009111	CCV10	21:12	07/14/11	1.000

ID8G009112	CCB10	21:15	07/14/11	1.000
ID8G009113	TXG006SB	21:18	07/14/11	1.000
ID8G009114	G468-01A	21:21	07/14/11	1.000
ID8G009115	G468-01	21:24	07/14/11	1.000
ID8G009116	G468-01J	21:27	07/14/11	5.000
ID8G009117	G468-01M	21:30	07/14/11	1.000
ID8G009118	G468-01S	21:33	07/14/11	1.000
ID8G009119	Blank	21:36	07/14/11	1.000
ID8G009120	CCV11	21:39	07/14/11	1.000
ID8G009121	CCB11	21:42	07/14/11	1.000
ID8G009122	TXG004WB	21:45	07/14/11	1.000
ID8G009123	G033-01A	21:48	07/14/11	1.000
ID8G009124	G033-01	21:51	07/14/11	1.000
ID8G009125	G033-01J	21:54	07/14/11	5.000
ID8G009126	G033-01M	21:57	07/14/11	1.000
ID8G009127	G033-01S	21:59	07/14/11	1.000
ID8G009128	G044-01	22:02	07/14/11	1.000
ID8G009129	G044-02	22:05	07/14/11	1.000
ID8G009130	G044-03	22:08	07/14/11	1.000
ID8G009131	Blank	22:11	07/14/11	1.000
ID8G009132	CCV12	22:14	07/14/11	1.000
ID8G009133	CCB12	22:17	07/14/11	1.000
ID8G009134	IPG026SB	22:20	07/14/11	1.000
ID8G009135	IPG026SL	22:23	07/14/11	1.000
ID8G009136	IPG026SC	22:26	07/14/11	1.000
ID8G009137	G077-01A	22:29	07/14/11	1.000
ID8G009138	G077-01	22:32	07/14/11	1.000
ID8G009139	G077-01J	22:34	07/14/11	5.000
ID8G009140	G077-01M	22:37	07/14/11	1.000
ID8G009141	G077-01S	22:40	07/14/11	1.000
ID8G009142	G077-02	22:43	07/14/11	1.000
ID8G009143	Blank	22:46	07/14/11	1.000
ID8G009144	CCV13	22:49	07/14/11	1.000
ID8G009145	CCB13	22:52	07/14/11	1.000
ID8G009146	G077-03	22:55	07/14/11	1.000
ID8G009147	G077-04	22:58	07/14/11	1.000
ID8G009148	G077-05	23:01	07/14/11	1.000
ID8G009149	G077-06	23:04	07/14/11	1.000
ID8G009150	G077-07	23:07	07/14/11	1.000
ID8G009151	G077-08	23:10	07/14/11	1.000
ID8G009152	G077-09	23:13	07/14/11	1.000
ID8G009153	G077-10	23:16	07/14/11	1.000
ID8G009154	G077-11	23:19	07/14/11	1.000
ID8G009155	Blank	23:22	07/14/11	1.000
ID8G009156	CCV14	23:25	07/14/11	1.000
ID8G009157	CCB14	23:28	07/14/11	1.000
ID8G009158	G077-12	23:31	07/14/11	1.000
ID8G009159	G077-13	23:34	07/14/11	1.000
ID8G009160	G077-14	23:37	07/14/11	1.000
ID8G009161	G077-15	23:40	07/14/11	1.000
ID8G009162	G077-16	23:43	07/14/11	1.000
ID8G009163	G077-17	23:46	07/14/11	1.000
ID8G009164	G077-18	23:49	07/14/11	1.000
ID8G009165	G077-19	23:52	07/14/11	1.000
ID8G009166	Blank	23:55	07/14/11	1.000
ID8G009167	CCV15	23:59	07/14/11	1.000
ID8G009168	CCB15	00:01	07/15/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8G009 DATE : 07/14/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	102	99	100	98	99	97	99	98	94	97	99	98	96	98	96	94	100	96	97	101	99	102	98	93	98	99	97	100
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	94	----	----	----	----	----	----	91	----	----	----	92	----	----	94	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	96	103	102	103	98	98	96	91	91	95	103	93	94	100	95	90	103	95	99	101	105	104	96	86	96	98	97	98
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	103	101	102	97	99	98	102	97	94	96	100	100	97	96	95	92	101	96	95	103	99	100	97	95	98	100	98	100
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	101	96	96	96	97	95	94	95	92	96	98	96	95	95	92	90	99	95	94	97	96	99	96	89*	97	98	95	98
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	102	101	102	97	99	97	101	97	94	97	100	99	97	96	95	92	101	96	95	103	99	100	97	95	98	100	98	100
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	102	100	101	97	98	97	99	97	94	96	99	98	96	96	94	91	100	96	95	101	99	100	97	94	98	99	97	100
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

G001-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	102	100	100	96	99	97	100	97	94	97	99	99	96	96	94	90	100	96	95	100	99	99	97	94	98	100	98	100
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG023SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG023SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG023SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG022WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG022WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG022WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	104	100	101	98	98	98	100	97	94	96	100	100	96	96	94	91	100	96	96	102	99	100	98	94	98	100	98	100
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	104	100	102	97	98	98	101	96	94	96	99	100	97	96	94	90	100	96	95	103	99	99	97	95	97	100	98	100
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G433-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G451-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G451-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G433-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	105	100	101	98	99	98	100	96	95	96	100	100	96	96	94	90	101	96	95	102	99	100	97	94	98	100	98	100
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	104	99	101	98	97	98	99	96	94	96	99	98	96	97	92	90	101	96	96	101	99	100	98	94	97	99	97	100
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	105	99	101	98	98	98	99	96	95	96	101	99	97	96	92	89*	101	96	95	102	99	99	98	94	97	99	98	100

CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXG006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	106	100	102	98	97	99	100	95	95	96	100	99	97	96	92	90	101	96	95	103	100	99	98	95	97	99	98	100
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXG004WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G044-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G044-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	106	100	102	98	97	99	101	95	95	96	100	99	96	97	91	90	101	96	95	103	100	100	98	96	97	99	98	100
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG026SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG026SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG026SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	105	101	104	99	96	99	101	95	95	96	101	99	97	96	90	89*	101	96	95	105	101	99	99	97	97	98	98	101
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	106	99	102	99	96	100	100	95	96	97	100	98	97	97	90	89*	102	96	96	103	102	101	100	96	97	98	98	101
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	107	100	103	100	96	100	101	95	96	97	101	99	97	96	89*	88*	102	97	95	104	101	100	100	96	98	99	99	101
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8G009 (SOIL) DATE : 07/14/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-.090	1.82	.800	-.060	.020	4.13	.000	-50.7	.050	.110	-.180	-6.34	-.370	-.100	5.03	-.090	.440	-.070	62.0	.560	.050	-4.14	.130	.480	-.170	-.660	.000	-3.19
ICSA1	----	-1.62	.530	1.41	-.090	12.0	.780	----	.570	-.190	.800	----	.190	5.29	----	1.73	-1.33	.640	71.7	-3.08	-.070	31.7	1.16	-.370	.870	10.9	-.440	.380
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1401	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	7.81	1.90	.710	1.000	.130	4.00	.220	156	.260	.060	.030	-.450	.000	.840	11.2	.420	.720	.090	70.5	.980	.080	2.76	.050	.530	.280	-.880	.270	3.30
IPG016WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	1295	10.1	5.31	30.6	22.8	29.5	8.51	1120	30.0	4.97	29.9	319	10.1	7.92	895	36.7	15.5	11.8	931	5.06	5.60	946	7.88	15.6	2.75	7.35	17.9	7.89
G001-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-.860	2.14	.680	-.080	.080	3.51	.020	-47.4	.130	.050	-.270	-2.09	.150	-.410	8.08	.100	.280	-.190	50.5	1.07	-.030	-2.33	.070	.180	-.190	-.550	.180	-3.00
IPG016WQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WX	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG016WY	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-10H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-.740	2.36	.420	.130	.000	3.24	-.010	-45.8	.040	.060	-.180	-4.04	-.180	-.190	7.19	-.230	.440	-.150	62.8	1.91	-.010	1.37	.010	-.460	.180	-.660	-.040	-3.02
G001-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

G001-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G001-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-1.19	1.82	.560	-.060	.000	2.20	-.020	-51.4	.080	.130	-.200	-1.24	.000	.330	15.6	-.090	.530	-.070	57.0	1.22	.080	1.64	-.050	.030	.000	-.490	.080	-3.22
IPG023SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG023SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG023SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG022WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG022WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG022WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	15.7	1.96	.780	1.60	.240	2.85	.230	596	.370	.330	.350	3.75	.420	.500	20.3	.460	.690	.320	77.1	.170	.210	6.40	.250	.820	.080	-.290	.210	18.9
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1403	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1404	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-1.74	.900	-.490	-.140	-.020	2.74	.010	-51.2	.000	.050	-.180	-1.49	-.750	.290	12.2	.000	.350	-.120	36.3	.410	-.030	-14.8	-.050	-.270	-.290	-.070	.120	-3.24
G433-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G451-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G451-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G433-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.74	1.41	-.070	-.150	-.010	2.75	-.010	-54.4	.080	-.100	-.150	-4.04	-.280	.830	7.56	-.250	.380	-.250	12.1	.520	.100	-22.3	.050	.610	-.050	-1.02	.070	-3.14
IPG025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-09S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-1.07	1.48	.930	-.200	.030	3.06	.030	-44.4	.020	.090	-.080	-3.14	.290	.210	10.1	-.210	.490	-.140	60.3	1.50	-.020	11.2	.070	.010	-.310	-.090	-.060	-3.17
G069-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCB10	-4.89	1.62	.970	-.010	.050	5.02	-.030	-45.1	.010	.030	-.180	-1.98	-.300	.280	7.92	-.030	.350	-.160	312	1.06	-.170	452	.030	.200	.140	.340	.100	-2.89
TXG006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G468-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-3.73	1.55	1.28	.040	.000	5.05	-.010	-48.3	-.010	-.120	-.080	-4.38	.000	1.42	8.50	.040	.360	-.080	215	.390	-.050	231	-.030	.380	-.300	-.200	-.030	-3.12
TXG004WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G033-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G044-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G044-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-2.57	2.05	1.35	.010	.060	3.54	.040	-51.0	.040	.090	.030	-3.82	-.250	.590	-3.50	-.090	.370	-.020	133	.100	.070	143	.040	.110	-.080	-.390	.070	-3.27
IPG026SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG026SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG026SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	-6.70	1.66	1.18	-.370	-.060	3.36	.010	-50.5	-.010	.030	.060	-3.07	-.340	.820	4.91	-.050	.430	-.210	66.7	.780	-.030	63.9	.050	-.030	-.390	-.540	.120	-2.20
G077-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	-3.09	1.71	.470	-.300	.010	2.07	-.030	-44.6	-.090	.100	.100	-2.60	.190	1.36	7.70	-.110	.350	-.310	22.0	-.110	.020	13.5	-.040	-.260	-.170	-.320	.020	-2.24
G077-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	-5.30	1.74	.290	-.160	-.010	1.73	.010	-42.6	-.040	.070	.340	-1.14	-.060	.980	3.77	-.010	.310	-.350	29.6	.550	.130	10.7	.010	.210	.110	-1.00	-.040	-1.01

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8G009001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8G009002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8G009003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8G009004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8G009005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8G009006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8G009007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8G009008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8G009009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8G009010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8G009011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8G009012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8G009013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8G009014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8G009015			1	☒	3XIDL	None
16	5	2	5	1	QC	ICSA1		ID8G009016			1	☒	ICSA	None
17	6	2	6	1	QC	ICSAB1		ID8G009017			1	☒	ICSAB	None
18	17	2	5	2	Blank	Blank		ID8G009018			1	☐		---
19	3	2	3	1	QC	MRLG1401		ID8G009019			1	☒	MRL-EMAX	None
20	4	2	4	1	QC	MRLG1402		ID8G009020			1	☒	MRL-AFCEE	None
21	7	2	7	1	QC	CCV1		ID8G009021			1	☒	CCV	None
22	8	2	8	1	QC	CCB1		ID8G009022			1	☒	LOD	None
23	9	2	9	1	QC	IPG016WB		ID8G009023			1	☒	1/2LOQ	None
24	10	2	10	1	QC	IPG016WL		ID8G009024			1	☒	LCS	None
25	11	2	11	1	QC	IPG016WC		ID8G009025			1	☒	LCS	None
26	12	2	12	1	Unk	G001-10A		ID8G009026			1	☒	unk	---
27	13	2	1	2	Unk	G001-10		ID8G009027			1	☒	unk	---
28	14	2	2	2	Unk	G001-10J		ID8G009028			1	☒	unk	---
29	15	2	3	2	Unk	G001-10M		ID8G009029			1	☒	unk	---
30	16	2	4	2	Unk	G001-10S		ID8G009030			1	☒	unk	---
31	21	2	9	2	Unk	G001-02		ID8G009031			1	☒	unk	---
32	18	2	6	2	Blank	Blank		ID8G009032			1	☐		---
33	19	2	7	2	QC	CCV2		ID8G009033			1	☒	CCV	None
34	20	2	8	2	QC	CCB2		ID8G009034			1	☒	LOD	None
35	22	2	10	2	Unk	G001-03		ID8G009035			1	☒	unk	---
36	73	3	1	2	Blank	Blank		ID8G009036			1	☐		---
37	74	3	2	2	QC	CCV3		ID8G009037			1	☒	CCV	None
38	75	3	3	2	QC	CCB3		ID8G009038			1	☒	LOD	None
39	76	3	4	2	QC	IPG016WQ		ID8G009039			1	☒	1/2LOQ	None

7053

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	77	3	5	2	QC	IPG016WX		ID8G009040			1	☒	LCS	None
41	78	3	6	2	QC	IPG016WY		ID8G009041			1	☒	LCS	None
42	79	3	7	2	Unk	G001-10A		ID8G009042			1	☒	unk	---
43	80	3	8	2	Unk	G001-10W		ID8G009043			1	☒	unk	---
44	81	3	9	2	Unk	G001-10J		ID8G009044			1	☒	unk	---
45	82	3	10	2	Unk	G001-10G		ID8G009045			1	☒	unk	---
46	83	3	11	2	Unk	G001-10H		ID8G009046			1	☒	unk	---
47	84	3	12	2	Unk	G001-02W		ID8G009047			1	☒	unk	---
48	85	3	1	3	Blank	Blank		ID8G009048			1	☐		---
49	86	3	2	3	QC	CCV4		ID8G009049			1	☒	CCV	None
50	87	3	3	3	QC	CCB4		ID8G009050			1	☒	3XIDL	None
51	88	3	4	3	Unk	G001-03W		ID8G009051			1	☒	unk	---
52	23	2	11	2	Unk	G001-04		ID8G009052			1	☒	unk	---
53	24	2	12	2	Unk	G001-05		ID8G009053			1	☒	unk	---
54	25	2	1	3	Unk	G001-06		ID8G009054			1	☒	unk	---
55	26	2	2	3	Unk	G001-07		ID8G009055			1	☒	unk	---
56	27	2	3	3	Unk	G001-08		ID8G009056			1	☒	unk	---
57	28	2	4	3	Unk	G001-09		ID8G009057			1	☒	unk	---
58	29	2	5	3	Unk	G001-11		ID8G009058			1	☒	unk	---
59	33	2	9	3	Unk	G001-12		ID8G009059			1	☒	unk	---
60	30	2	6	3	Blank	Blank		ID8G009060			1	☐		---
61	31	2	7	3	QC	CCV5		ID8G009061			1	☒	CCV	None
62	32	2	8	3	QC	CCB5		ID8G009062			1	☒	LOD	None
63	53	2	5	5	QC	IPG023SB		ID8G009063			1	☒	1/2LOQ	None
64	54	2	6	5	QC	IPG023SL		ID8G009064			1	☒	LCS	None
65	55	2	7	5	QC	IPG023SC		ID8G009065			1	☒	LCS	None
66	64	3	4	1	QC	IPG022WB		ID8G009066			1	☒	1/2LOQ	None
67	65	3	5	1	QC	IPG022WL		ID8G009067			1	☒	LCS	None
68	66	3	6	1	QC	IPG022WC		ID8G009068			1	☒	LCS	None
69	56	2	8	5	Unk	LODV-01	3050	ID8G009069			1	☒	unk	---
70	57	2	9	5	Unk	LOQV-01	3050	ID8G009070			1	☒	unk	---
71	58	2	10	5	Unk	LOQV-01	3050	ID8G009071			1	☒	unk	---
72	67	3	7	1	Blank	Blank		ID8G009072			1	☐		---
73	68	3	8	1	QC	CCV6		ID8G009073			1	☒	CCV	None
74	69	3	9	1	QC	CCB6		ID8G009074			1	☒	3XIDL	None
75	70	3	10	1	Unk	LODV-01	3010	ID8G009075			1	☒	unk	---
76	71	3	11	1	Unk	LOQV-01	3010	ID8G009076			1	☒	unk	---
77	72	3	12	1	Unk	LOQV-01	3010	ID8G009077			1	☒	unk	---
78	59	2	11	5	Blank	Blank		ID8G009078			1	☐		---

7051

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	60	2	12	5	QC	MRLG1403		ID8G009079			1	☒	MRL-EMAX	None
80	61	3	1	1	QC	MRLG1404		ID8G009080			1	☒	MRL-AFCEE	None
81	62	3	2	1	QC	CCV7		ID8G009081			1	☒	CCV	None
82	63	3	3	1	QC	CCB7		ID8G009082			1	☒	3XIDL	None
83	34	2	10	3	Unk	G433-01		ID8G009083			1	☒	unk	---
84	35	2	11	3	Unk	G451-01T	5X	ID8G009084			1	☒	unk	---
85	36	2	12	3	Unk	G451-02T	5X	ID8G009085			1	☒	unk	---
86	37	2	1	4	Unk	G433-02T	5X	ID8G009086			1	☒	unk	---
87	38	2	2	4	Blank	Blank		ID8G009087			1	☐		---
88	39	2	3	4	QC	CCV8		ID8G009088			1	☒	CCV	None
89	40	2	4	4	QC	CCB8		ID8G009089			1	☒	3XIDL	None
90	89	3	5	3	QC	IPG025WB		ID8G009090			1	☒	1/2LOQ	None
91	90	3	6	3	QC	IPG025WL		ID8G009091			1	☒	LCS	None
92	91	3	7	3	QC	IPG025WC		ID8G009092			1	☒	LCS	None
93	92	3	8	3	Unk	G069-09A		ID8G009093			1	☒	unk	---
94	93	3	9	3	Unk	G069-09		ID8G009094			1	☒	unk	---
95	94	3	10	3	Unk	G069-09J		ID8G009095			1	☒	unk	---
96	95	3	11	3	Unk	G069-09M		ID8G009096			1	☒	unk	---
97	96	3	12	3	Unk	G069-09S		ID8G009097			1	☒	unk	---
98	97	3	1	4	Unk	G069-01		ID8G009098			1	☒	unk	---
99	98	3	2	4	Blank	Blank		ID8G009099			1	☐		---
100	99	3	3	4	QC	CCV9		ID8G009100			1	☒	CCV	None
101	100	3	4	4	QC	CCB9		ID8G009101			1	☒	3XIDL	None
102	101	3	5	4	Unk	G069-02	K=2.6	ID8G009102			1	☒	unk	---
103	102	3	6	4	Unk	G069-03	3.1	ID8G009103			1	☒	unk	---
104	103	3	7	4	Unk	G069-04	11.3	ID8G009104			1	☒	unk	---
105	104	3	8	4	Unk	G069-05	2.3	ID8G009105			1	☒	unk	---
106	105	3	9	4	Unk	G069-06	17.5	ID8G009106			1	☒	unk	---
107	106	3	10	4	Unk	G069-07	1.8	ID8G009107			1	☒	unk	---
108	107	3	11	4	Unk	G069-08	5.2	ID8G009108			1	☒	unk	---
109	120	3	12	5	Unk	G075-02	Mg↑ K↑ Na↑	ID8G009109			1	☒	unk	---
110	110	3	2	5	Blank	Blank		ID8G009110			1	☐		---
111	111	3	3	5	QC	CCV10		ID8G009111			1	☒	CCV	None
112	112	3	4	5	QC	CCB10	K=0.312 Na=0.45	ID8G009112			1	☒	3XIDL	None
113	113	3	5	5	QC	TXG006SB	TCLP	ID8G009113			1	☒	1/2LOQ	None
114	114	3	6	5	Unk	G468-01A	TCLP	ID8G009114			1	☒	unk	---
115	115	3	7	5	Unk	G468-01	TCLP	ID8G009115			1	☒	unk	---
116	116	3	8	5	Unk	G468-01J	TCLP	ID8G009116			1	☒	unk	---
117	117	3	9	5	Unk	G468-01M	TCLP	ID8G009117			1	☒	unk	---

7055

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	118	3	10	5	Unk	G468-01S	TCLP	ID8G009118			1	☒	unk	---
119	121	4	1	1	Blank	Blank		ID8G009119			1	☐		---
120	122	4	2	1	QC	CCV11		ID8G009120			1	☒	CCV	None
121	123	4	3	1	QC	CCB11		ID8G009121			1	☒	3XIDL	None
122	41	2	5	4	QC	TXG004WB	TCLP	ID8G009122			1	☒	1/2LOQ	None
123	42	2	6	4	Unk	G033-01A	TCLP	ID8G009123			1	☒	unk	---
124	43	2	7	4	Unk	G033-01	TCLP	ID8G009124			1	☒	unk	---
125	44	2	8	4	Unk	G033-01J	TCLP	ID8G009125			1	☒	unk	---
126	45	2	9	4	Unk	G033-01M	TCLP	ID8G009126			1	☒	unk	---
127	46	2	10	4	Unk	G033-01S	TCLP	ID8G009127			1	☒	unk	---
128	47	2	11	4	Unk	G044-01	TCLP	ID8G009128			1	☒	unk	---
129	48	2	12	4	Unk	G044-02	TCLP	ID8G009129			1	☒	unk	---
130	49	2	1	5	Unk	G044-03	TCLP	ID8G009130			1	☒	unk	---
131	50	2	2	5	Blank	Blank		ID8G009131			1	☐		---
132	51	2	3	5	QC	CCV12		ID8G009132			1	☒	CCV	None
133	52	2	4	5	QC	CCB12		ID8G009133			1	☒	3XIDL	None
134	124	4	4	1	QC	IPG026SB		ID8G009134			1	☒	1/2LOQ	None
135	125	4	5	1	QC	IPG026SL		ID8G009135			1	☒	LCS	None
136	126	4	6	1	QC	IPG026SC		ID8G009136			1	☒	LCS	None
137	127	4	7	1	Unk	G077-01A		ID8G009137			1	☒	unk	---
138	128	4	8	1	Unk	G077-01		ID8G009138			1	☒	unk	---
139	129	4	9	1	Unk	G077-01J		ID8G009139			1	☒	unk	---
140	130	4	10	1	Unk	G077-01M		ID8G009140			1	☒	unk	---
141	131	4	11	1	Unk	G077-01S		ID8G009141			1	☒	unk	---
142	132	4	12	1	Unk	G077-02		ID8G009142			1	☒	unk	---
143	133	4	1	2	Blank	Blank		ID8G009143			1	☐		---
144	134	4	2	2	QC	CCV13		ID8G009144			1	☒	CCV	None
145	135	4	3	2	QC	CCB13		ID8G009145			1	☒	3XIDL	None
146	136	4	4	2	Unk	G077-03		ID8G009146			1	☒	unk	---
147	137	4	5	2	Unk	G077-04		ID8G009147			1	☒	unk	---
148	138	4	6	2	Unk	G077-05		ID8G009148			1	☒	unk	---
149	139	4	7	2	Unk	G077-06		ID8G009149			1	☒	unk	---
150	140	4	8	2	Unk	G077-07		ID8G009150			1	☒	unk	---
151	141	4	9	2	Unk	G077-08		ID8G009151			1	☒	unk	---
152	142	4	10	2	Unk	G077-09		ID8G009152			1	☒	unk	---
153	143	4	11	2	Unk	G077-10		ID8G009153			1	☒	unk	---
154	144	4	12	2	Unk	G077-11		ID8G009154			1	☒	unk	---
155	145	4	1	3	Blank	Blank		ID8G009155			1	☐		---
156	146	4	2	3	QC	CCV14		ID8G009156			1	☒	CCV	None

7955

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	147	4	3	3	QC	CCB14		ID8G009157			1	☒	3XIDL	None
158	148	4	4	3	Unk	G077-12		ID8G009158			1	☒	unk	---
159	149	4	5	3	Unk	G077-13		ID8G009159			1	☒	unk	---
160	150	4	6	3	Unk	G077-14		ID8G009160			1	☒	unk	---
161	151	4	7	3	Unk	G077-15		ID8G009161			1	☒	unk	---
162	152	4	8	3	Unk	G077-16		ID8G009162			1	☒	unk	---
163	153	4	9	3	Unk	G077-17		ID8G009163			1	☒	unk	---
164	154	4	10	3	Unk	G077-18		ID8G009164			1	☒	unk	---
165	155	4	11	3	Unk	G077-19		ID8G009165			1	☒	unk	---
166	156	4	12	3	Blank	Blank		ID8G009166			1	☐		---
167	157	4	1	4	QC	CCV15		ID8G009167			1	☒	CCV	None
168	158	4	2	4	QC	CCB15		ID8G009168			1	☒	3XIDL	None

7057

ID8G009 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00156	.00001	-.00001	.00057	.00013	.00026	-.00003	.00158	-.00001	-.00107	Blank
2	S20					.83043		.13648				S20
3	S21					8.3094		1.3125				S21
4	S22				.38114						.15865	S22
5	S23				3.8499						1.5936	S23
6	S24						.10049					S24
7	S25						1.0358					S25
8	S26	.25483							1.1162	.16062		S26
9	S27	8.6796							10.292	1.5332		S27
10	S28		.00550									S28
11	S29		.05523									S29
12	S30			.00139								S30
13	S31			.00555								S31
14	ICV	101.58	1.4852	.99766	1.9613	1.4844	2.4360	1.9753	73.243	2.3507	.96575	ICV
15	ICB	-.00009	.00182	.00080	-.00006	.00002	.00413	.00000	-.05074	.00005	.00011	ICB
16	ICSA1	375.82	-.00162	.00053	.00141	-.00009	.01196	.00078	453.96	.00057	-.00019	ICSA1
17	ICSAB1	385.55	1.0332	1.0243	.51401	.49097	.49106	.96306	456.65	.45446	.47590	ICSAB1
18	Blank	.01288	.00163	.00081	-.00044	-.00005	.00160	.00002	-.03495	-.00008	-.00003	Blank
19	MRLG1401	.21393	.09598	.01144	.01003	.00994	.09280	.01014	.94014	.00989	.00975	MRLG1401
20	MRLG1402	.21213	.04883	.01042	.00481	.00391	.09479	.00516	.44322	.00964	.00980	MRLG1402
21	CCV1	103.05	1.5205	1.0241	1.9497	1.4888	2.4383	2.0321	72.647	2.3511	.96466	CCV1
22	CCB1	.00781	.00190	.00071	.00100	.00013	.00400	.00022	.15576*	.00026	.00006	CCB1
23	IPG016WB	.00185	.00087	.00022	-.00026	-.00011	.00317	-.00001	-.05564	-.00014	-.00001	IPG016WB
24	IPG016WL	5.3802	2.5194	.51033	.49158	.51310	.49768	.50624	48.205	.48511	.49030	IPG016WL
25	IPG016WC	5.4428	2.5042	.49809	.49725	.51716	.50160	.49640	48.697	.49023	.49357	IPG016WC
26	G001-10A	5.5649	2.5132	.50753	.55410	.51533	.60882	.48705	183.55	.48249	.49643	G001-10A
27	G001-10	.06739	.01519	.00302	.06389	.00742	.11551	.00195	142.67	.00570	.00273	G001-10
28	G001-10J	-.00391	.00150	.00052	.01218	-.00010	.02350	.00001	31.744	.00023	.00022	G001-10J
29	G001-10M	5.4572	2.4928	.49934	.54077	.50092	.59766	.48111	183.00	.46842	.48521	G001-10M
30	G001-10S	5.6088	2.5495	.51169	.55634	.51535	.61170	.49112	186.47	.48054	.49546	G001-10S
31	G001-02	.08331	.01108	.00710	.03532	.00766	.03246	.00166	53.747	.00632	.00198	G001-02
32	Blank	-.00771	.00176	-.00018	-.00009	.00001	.00088	.00001	.56145	.00000	.00012	Blank
33	CCV2	101.12	1.4391	.96005	1.9154	1.4550	2.3806	1.8847	70.930	2.2992	.95643	CCV2
34	CCB2	1.2951*	.01013	.00531*	.03061*	.02279*	.02953*	.00851*	1.1201*	.02999*	.00497*	CCB2
35	G001-03	.01499	.00184	.00119	.09455	-.00004	.03794	-.00005	146.71	.00057	.00097	G001-03
36	Blank	-.00402	.00051	.00076	-.00002	-.00005	.00091	.00002	-.04920	-.00018	.00010	Blank
37	CCV3	102.39	1.5103	1.0164	1.9393	1.4850	2.4291	2.0164	72.527	2.3505	.96688	CCV3
38	CCB3	-.00086	.00214	.00068	-.00008	.00008	.00351	.00002	-.04743	.00013	.00005	CCB3
39	IPG016WQ	-.00310	.00089	.00060	-.00014	-.00007	.00164	-.00002	-.04160	-.00010	.00006	IPG016WQ
40	IPG016WX	5.3642	2.5170	.50889	.48689	.50779	.49345	.51173	48.058	.48344	.48655	IPG016WX
41	IPG016WY	5.4257	2.5406	.51142	.49241	.51251	.50079	.51291	48.622	.48847	.49061	IPG016WY
42	G001-10A	5.5682	2.5781	.52274	.55587	.51665	.61941	.50871	186.47	.48690	.49810	G001-10A
43	G001-10W	.01333	.00208	.00167	.05639	-.00011	.11074	-.00004	143.17	.00051	.00057	G001-10W
44	G001-10J	.00148	.00103	.00136	.01165	-.00006	.02210	.00000	29.725	.00015	.00011	G001-10J
45	G001-10G	5.4488	2.5527	.50934	.54401	.50772	.60307	.49830	185.80	.47567	.48819	G001-10G
46	G001-10H	5.5389	2.6226	.52699	.55309	.51189	.61294	.51189	184.43	.48247	.49353	G001-10H
47	G001-02W	.02311	.00080	.00469	.02728	-.00003	.02650	-.00014	51.613	.00077	.00015	G001-02W
48	Blank	-.00335	.00084	.00048	-.00041	-.00006	.00031	-.00002	-.04625	-.00001	.00019	Blank
49	CCV4	102.04	1.4962	1.0055	1.9418	1.4742	2.4369	1.9885	72.393	2.3483	.96440	CCV4
50	CCB4	-.00074	.00236	.00042	.00013	.00000	.00324	-.00001	-.04579	.00004	.00006	CCB4
51	G001-03W	.01689	.00140	.00009	.09585	-.00004	.03833	-.00013	149.49	.00063	.00093	G001-03W
52	G001-04	.01394	.00085	-.00009	.03849	-.00010	.09275	.00013	104.69	.00026	.00021	G001-04
53	G001-05	.01366	.00001	.00006	.03756	-.00007	.09247	.00001	103.51	.00038	-.00003	G001-05
54	G001-06	.00507	-.00006	.00055	.00005	-.00008	.03042	-.00006	.17397	.00176	.00017	G001-06

55	G001-07	.00973	.00052	.00113	-.00001	-.00007	.03094	-.00005	.15242	.00001	.00017	G001-07
56	G001-08	.00847	-.00017	.04314	.07567	-.00005	.06146	-.00034	69.847	.00040	.00083	G001-08
57	G001-09	.01600	.00106	.00508	.24963	-.00008	.34914	-.00022	143.46	.00046	.00014	G001-09
58	G001-11	.16319	-.00074	.00383	.05781	.00074	.03665	-.00008	63.785	.00033	.01664	G001-11
59	G001-12	.02472	.00086	-.00001	.03915	-.00007	.02973	-.00007	58.577	.00041	.00115	G001-12
60	Blank	-.00258	.00065	.00087	-.00028	-.00007	-.00041	.00001	-.05526	-.00004	-.00001	Blank
61	CCV5	102.19	1.4977	1.0010	1.9286	1.4805	2.4190	2.0029	72.431	2.3505	.96772	CCV5
62	CCB5	-.00119	.00182	.00056	-.00006	.00000	.00220	-.00002	-.05136	.00008	.00013	CCB5
63	IPG023SB	-.00523	.00098	-.00107	.00005	-.00010	.00088	-.00010	-.02356	.00050	.00002	IPG023SB
64	IPG023SL	5.1101	2.4630	.49115	.48893	.50560	.45858	.49993	48.877	.48793	.49940	IPG023SL
65	IPG023SC	5.1196	2.4619	.49143	.49185	.50625	.46158	.49944	49.069	.49062	.50176	IPG023SC
66	IPG022WB	-.00378	.00121	.00097	-.00026	-.00001	.00143	-.00002	-.04160	.00019	.00009	IPG022WB
67	IPG022WL	5.4360	2.5689	.51512	.49343	.51372	.50448	.51574	48.891	.49135	.49268	IPG022WL
68	IPG022WC	5.3533	2.5386	.50787	.48866	.51003	.49730	.50968	48.395	.48717	.49042	IPG022WC
69	LODV-01	.05277	.03060	.00363	.00285	.00106	.00955	.00191	.25904	.00350	.00208	LODV-01
70	LOQV-01	.20576	.09638	.00937	.01036	.01029	.08787	.01031	1.0174	.01072	.01066	LOQV-01
71	LOQV-01	.19694	.09523	.00827	.01030	.01012	.08648	.01016	.99218	.01059	.01050	LOQV-01
72	Blank	-.00357	.00003	.00110	-.00020	-.00006	-.00033	-.00005	-.05087	-.00006	.00005	Blank
73	CCV6	103.97	1.4988	1.0129	1.9525	1.4754	2.4432	2.0057	72.420	2.3613	.96218	CCV6
74	CCB6	.01572	.00196	.00078	.00160	.00024	.00285	.00023	.59572*	.00037	.00033	CCB6
75	LODV-01	.03347	.03334	.00610	.00182	.00103	.01156	.00218	.08310	.00313	.00225	LODV-01
76	LOQV-01	.21674	.09877	.00859	.01051	.01037	.09477	.01018	.97681	.01042	.01033	LOQV-01
77	LOQV-01	.21773	.09762	.01001	.01024	.01041	.09411	.01028	.98728	.01033	.01001	LOQV-01
78	Blank	-.00524	.00057	.00108	-.00007	-.00008	-.00007	.00001	-.05952	-.00008	.00001	Blank
79	MRLG1403	.22045	.09611	.01021	.01029	.00995	.09251	.01027	.94473	.00998	.00964	MRLG1403
80	MRLG1404	.20648	.04788	.00990	.00506	.00387	.09288	.00499	.43246	.00955	.00982	MRLG1404
81	CCV7	103.51	1.5009	1.0182	1.9452	1.4755	2.4390	2.0130	72.182	2.3601	.96225	CCV7
82	CCB7	-.00174	.00090	-.00049	-.00014	-.00002	.00274	.00001	-.05122	.00000	.00005	CCB7
83	G433-01	57.056	-.00466	.00275	.38592	.00047	.18276	.00067	118.82	.21433	.11789	G433-01
84	G451-01T	61.963	.00666	.00031	.01321	.00005	.00814	-.00074	5.9435	4.7151	.06572	G451-01T
85	G451-02T	13.964	.00103	.00034	.00681	.00015	.00142	-.00036	1.6954	1.3663	.02442	G451-02T
86	G433-02T	52.264	-.00303	-.00177	.02376	-.00002	.00688	-.00111	6.1764	5.6216	.09381	G433-02T
87	Blank	-.00235	.00038	-.00025	-.00022	-.00003	-.00026	-.00003	-.05795	.00016	-.00005	Blank
88	CCV8	104.69	1.4946	1.0127	1.9553	1.4783	2.4409	2.0014	72.163	2.3633	.96458	CCV8
89	CCB8	-.00274	.00141	-.00007	-.00015	-.00001	.00275	-.00001	-.05441	.00008	-.00010	CCB8
90	IPG025WB	-.00240	.00113	-.00045	-.00027	-.00011	.00156	-.00006	-.06066	-.00004	.00004	IPG025WB
91	IPG025WL	5.5832	2.6109	.53219	.50942	.52125	.51814	.52776	49.874	.50477	.50242	IPG025WL
92	IPG025WC	5.5911	2.6155	.52953	.50872	.51903	.51933	.52726	49.821	.50456	.50224	IPG025WC
93	G069-09A	5.5114	2.5509	.52435	.51367	.51038	.58939	.51022	86.451	.48987	.49095	G069-09A
94	G069-09	.01014	.00375	.00160	.01599	-.00002	.08104	.00002	39.415	.00026	.00062	G069-09
95	G069-09J	-.00152	.00141	.00055	.00317	-.00008	.01592	-.00001	8.0465	.00012	.00027	G069-09J
96	G069-09M	5.6457	2.6611	.54123	.52243	.52021	.59974	.52566	87.174	.49766	.49777	G069-09M
97	G069-09S	5.6241	2.6316	.54204	.52175	.51677	.59710	.52180	86.765	.49469	.49412	G069-09S
98	G069-01	.01577	.00184	-.00007	.00803	-.00008	.06092	.00011	43.429	.00291	.00035	G069-01
99	Blank	-.00697	.00059	-.00083	-.00026	-.00009	.00034	-.00003	-.05455	-.00011	.00016	Blank
100	CCV9	104.06	1.4782	1.0052	1.9507	1.4586	2.4530	1.9710	72.185	2.3590	.96199	CCV9
101	CCB9	-.00107	.00148	.00093	-.00020	.00003	.00306	.00003	-.04444	.00002	.00009	CCB9
102	G069-02	.04304	.00085	-.00021	.00069	-.00008	.10230	.00004	51.016	.00508	.00144	G069-02
103	G069-03	.01224	.00044	.00050	.00059	-.00006	.09614	.00003	46.822	.00237	.00018	G069-03
104	G069-04	.01799	.00145	-.00027	.00894	-.00011	.11579	.00003	36.752	.00267	.00032	G069-04
105	G069-05	.01033	.00095	.00091	.00556	-.00012	.05413	.00004	64.246	.00404	.00018	G069-05
106	G069-06	.01118	.00074	.00058	.01788	-.00012	1.1913	-.00004	11.167	.00161	.00006	G069-06
107	G069-07	.01612	.00148	-.00088	.00577	-.00006	.03430	.00002	40.410	.01175	.00023	G069-07
108	G069-08	.01872	.00065	.00204	.00709	-.00011	.40723	.00003	16.765	.00046	.00040	G069-08
109	G075-02	.07456	.00403	.03885	.52680	-.00018	7.1271	.00036	663.77	.02191	.00452	G075-02
110	Blank	-.00514	.00010	-.00034	-.00035	-.00008	.00647	-.00002	-.02573	.00005	.00026	Blank
111	CCV10	105.00	1.4894	1.0138	1.9526	1.4638	2.4524	1.9900	71.654	2.3629	.96264	CCV10

GGA/

112	CCB10	-.00489	.00162	.00097	-.00001	.00005	.00502	-.00003	-.04514	.00001	.00003	CCB10
113	TXG006SB	.02598	-.00013	.00034	.00069	-.00010	.05503*	-.00004	-.05983	.00009	.00005	TXG006SB
114	G468-01A	5.8104	2.6020	.55200	1.2601	.50714	1.0482	.51889	70.185	.49918	.50188	G468-01A
115	G468-01	.13355	.04171	.00112	.77289	-.00001	.54355	.00124	23.092	.00133	.00147	G468-01
116	G468-01J	.02444	.00872	-.00046	.15665	-.00008	.10902	.00024	4.7220	.00014	.00029	G468-01J
117	G468-01M	5.9061	2.6455	.55088	1.7634	.51360	1.2316	.51863	71.075	.49976	.50234	G468-01M
118	G468-01S	5.9115	2.6493	.55161	1.7305	.51531	1.2132	.52137	70.219	.50091	.50367	G468-01S
119	Blank	-.00604	.00193	.00036	-.00021	-.00004	.00370	-.00004	-.05323	.00002	-.00004	Blank
120	CCV11	105.74	1.4935	1.0238	1.9648	1.4581	2.4704	1.9998	71.552	2.3690	.96255	CCV11
121	CCB11	-.00373	.00155	.00128	.00004	.00000	.00505	-.00001	-.04833	-.00001	-.00012	CCB11
122	TXG004WB	-.00294	.00070	-.00046	-.00009	-.00014	.03657	-.00004	.02184	-.00011	.00007	TXG004WB
123	G033-01A	5.5328	2.5491	.52263	.51050	.49902	.53318	.51467	61.541	.49223	.48855	G033-01A
124	G033-01	-.00145	.00138	-.00068	.01262	-.00005	.02524	-.00007	13.711	.00015	.00028	G033-01
125	G033-01J	-.00570	.00057	.00098	.00236	-.00010	.00676	-.00005	2.7261	-.00002	.00027	G033-01J
126	G033-01M	5.4598	2.5457	.51757	.50724	.50418	.52914	.50808	62.328	.49000	.48961	G033-01M
127	G033-01S	5.6824	2.5720	.52626	.50640	.50118	.53377	.51398	62.042	.49007	.48775	G033-01S
128	G044-01	.01246	.00191	-.00184	.05445	-.00006	.11804	.00002	5.4142	.00010	.00002	G044-01
129	G044-02	.01012	.00063	.00069	.05989	-.00009	.12518	-.00001	12.797	.00020	-.00013	G044-02
130	G044-03	.00831	.00037	.00024	.06225	-.00012	.13009	-.00002	12.681	.00019	-.00014	G044-03
131	Blank	-.00902	.00066	.00066	-.00031	-.00007	.00116	-.00001	-.05818	-.00008	.00010	Blank
132	CCV12	105.98	1.5008	1.0241	1.9630	1.4502	2.4733	2.0108	71.452	2.3736	.96320	CCV12
133	CCB12	-.00257	.00205	.00135	.00001	.00006	.00354	.00004	-.05101	.00004	.00009	CCB12
134	IPG026SB	.00058	-.00033	-.00059	.00356	-.00005	.00205	-.00005	.00897	.00052	-.00010	IPG026SB
135	IPG026SL	5.4800	2.5806	.52658	.52476	.52410	.48965	.52912	50.682	.51888	.52592	IPG026SL
136	IPG026SC	5.5291	2.6172	.53513	.53341	.52923	.49817	.53515	51.248	.52404	.53037	IPG026SC
137	G077-01A	88.579	2.4735	.58383	1.5530	.50557	.53213	.78415	128.65	.66201	.55286	G077-01A
138	G077-01	85.551	.01807	.07336	1.0815	.00693	.05921	.30366	83.991	.18384	.05449	G077-01
139	G077-01J	17.483	.00500	.01293	.21607	.00135	.01243	.06370	17.141	.03770	.01080	G077-01J
140	G077-01M	155.81	2.2745	.58432	1.6736	.51290	.54376	.78545	144.17	.70379	.56257	G077-01M
141	G077-01S	202.97	2.2568	.62227	2.1239	.52649	.57253	.84907	186.14	.78264	.59856	G077-01S
142	G077-02	109.60	.01030	.07499	1.2874	.00793	.04260	.18185	65.207	.15500	.04065	G077-02
143	Blank	-.00211	.00131	.00107	-.00039	-.00009	.00081	.00001	-.05392	-.00012	.00019	Blank
144	CCV13	105.32	1.5103	1.0369	1.9769	1.4394	2.4836	2.0262	71.125	2.3802	.96067	CCV13
145	CCB13	-.00670	.00166	.00118	-.00037	-.00006	.00336	.00001	-.05052	-.00001	.00003	CCB13
146	G077-03	104.93	.00610	.08724	.97624	.00843	.04275	.08435	29.993	.27419	.06468	G077-03
147	G077-04	113.50	.00679	.08084	1.1619	.00824	.03881	.10958	37.121	.23451	.06734	G077-04
148	G077-05	108.03	.00385	.06994	.95031	.00627	.03578	.06774	29.561	.17978	.07407	G077-05
149	G077-06	125.65	-.00104	.10165	1.0043	.00775	.04807	.01470	16.135	.30595	.08117	G077-06
150	G077-07	94.312	-.00044	.06497	.84724	.00553	.03053	.01675	36.802	.15646	.05421	G077-07
151	G077-08	127.44	.00001	.08036	1.0557	.00684	.03668	.00602	25.869	.19291	.08410	G077-08
152	G077-09	105.65	.00457	.06841	1.0044	.00676	.03153	.06438	27.369	.13448	.04951	G077-09
153	G077-10	93.110	.00114	.06145	.82214	.00533	.02204	.01203	14.853	.14011	.04477	G077-10
154	G077-11	99.314	.00251	.07008	.92836	.00625	.02892	.01282	17.388	.15420	.04522	G077-11
155	Blank	-.00495	.00032	-.00001	-.00047	-.00011	-.00037	-.00004	-.05994	-.00011	-.00001	Blank
156	CCV14	106.24	1.4923	1.0230	1.9776	1.4395	2.5039	1.9963	71.533	2.3939	.96747	CCV14
157	CCB14	-.00309	.00171	.00047	-.00030	.00001	.00207	-.00003	-.04463	-.00009	.00010	CCB14
158	G077-12	87.943	.00129	.06439	.75714	.00552	.02062	.00409	12.795	.14362	.05091	G077-12
159	G077-13	89.247	.01309	.08093	.96106	.00659	.03092	.17362	51.163	.14336	.07915	G077-13
160	G077-14	71.972	.00012	.04714	.70517	.00452	.01418	.00384	10.210	.10353	.03935	G077-14
161	G077-15	76.029	-.00012	.04239	.74298	.00462	.01546	.00387	10.804	.09986	.04293	G077-15
162	G077-16	196.65	.00263	.10361	2.2281	.01353	.05806	.01891	24.895	.26205	.24653	G077-16
163	G077-17	138.75	.01200	.09694	1.1033	.01032	.05060	.84509	16.816	.27522	.09665	G077-17
164	G077-18	147.19	.01637	.22290	.98107	.01467	.10545	1.1196	16.361	.60229	.18220	G077-18
165	G077-19	92.430	.05051	.19830	.74887	.01059	.09838	1.6495	84.201	.24587	.06386	G077-19
166	Blank	-.00118	-.00040	.00019	-.00023	-.00009	-.00094	.00001	-.05641	.00000	-.00003	Blank
167	CCV15	107.01	1.5048	1.0341	1.9995	1.4364	2.4962	2.0151	70.884	2.3934	.96818	CCV15
168	CCB15	-.00530	.00174	.00029	-.00016	-.00001	.00173	.00001	-.04265	-.00004	.00007	CCB15

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00126	.00003	.00009	-.00037	-.00002	.00004	.00001	-.00063	-.00053	.00000	Blank
2	S20			.19439			.11591					S20
3	S21			1.9087			1.1411					S21
4	S22	.32937	.05965									S22
5	S23	3.2471	2.3380									S23
6	S24							.66646				S24
7	S25							6.6729				S25
8	S26								.80946	.36195		S26
9	S27								7.7859	3.4369		S27
10	S28					.02301						S28
11	S29					.22723						S29
12	S30				.03028						.00153	S30
13	S31				.14935						.00601	S31
14	ICV	2.4737	24.566	2.4042	.49162	57.368	2.3428	2.5102	2.3964	58.171	1.0073	ICV
15	ICB	-.00018	-.00634	-.00037	-.00010	.00503	-.00009	.00044	-.00007	.06196	.00056	ICB
16	ICSA1	.00080	183.76	.00019	.00529	187.42	.00173	-.00133	.00064	.07171	-.00308	ICSA1
17	ICSAB1	.51613	186.98	.94001	1.0037	189.11	.45154	1.0268	.94557	74.222	1.0113	ICSAB1
18	Blank	-.00038	.00492	-.00088	.00027	.01516	-.00033	.00015	-.00031	.05148	.00134	Blank
19	MRLG1401	.00973	.20710	.00981	.00960	.97470	.00943	.01008	.00973	.96022	.00992	MRLG1401
20	MRLG1402	.01009	.10356	.00297	.09981	.22471	.00447	.00985	.00977	.96206	.00984	MRLG1402
21	CCV1	2.5037	24.920	2.4153	.48007	57.204	2.3063	2.5139	2.4002	57.068	1.0309	CCV1
22	CCB1	.00003	-.00045	.00000	.00084	.01123	.00042	.00072	.00009	.07048	.00098	CCB1
23	IPG016WB	-.00003	-.00246	.00016	.00055	.00267	.00001	-.00003	-.00021	.02279	.00079	IPG016WB
24	IPG016WL	.51021	5.1498	.49499	.00079*	47.087	.47556	.50795	.43419	47.691	.51011	IPG016WL
25	IPG016WC	.51356	5.1983	.49509	.00153*	47.692	.48033	.51514	.43616	48.112	.49510	IPG016WC
26	G001-10A	.52339	5.4479	.50150	.00252	74.294	1.3311	.52124	.44109	54.538	.49849	G001-10A
27	G001-10	.00647	.39701	.00422	.00133	28.082	.90158	.00310	.00261	6.1794	.00245	G001-10
28	G001-10J	.00004	.07408	.00079	.00112	6.1305	.19993	.00009	-.00013	1.1961	.00122	G001-10J
29	G001-10M	.51362	5.3275	.49112	.00261	73.026	1.3251	.51234	.42782	52.371	.49518	G001-10M
30	G001-10S	.52924	5.4636	.50125	.00185	74.813	1.3480	.52373	.43743	54.155	.50783	G001-10S
31	G001-02	.00578	5.3650	.00735	.00184	11.373	.09519	.00381	.00191	4.4924	.00175	G001-02
32	Blank	-.00038	.04309	.00000	.00041	.12306	.00102	-.00002	-.00031	.05146	.00000	Blank
33	CCV2	2.4379	24.033	2.3635	.47697	55.221	2.2495*	2.4817	2.3752	56.156	.96559	CCV2
34	CCB2	.02986*	.31927*	.01010*	.00792	.89541*	.03671*	.01549*	.01178*	.93097*	.00506*	CCB2
35	G001-03	.00107	2.2869	.00716	.00274	18.018	.64924	.00058	.00467	2.8613	-.00053	G001-03
36	Blank	-.00039	-.00276	-.00012	.00014	.01287	-.00008	-.00011	-.00032	-.03768	.00081	Blank
37	CCV3	2.4884	24.865	2.4191	.48187	56.818	2.2909	2.5126	2.4026	57.087	1.0253	CCV3
38	CCB3	-.00027	-.00209	.00015	-.00041	.00808	.00010	.00028	-.00019	.05045	.00107	CCB3
39	IPG016WQ	.00005	-.00209	-.00015	-.00041	.00157	-.00032	-.00010	-.00025	-.03569	.00084	IPG016WQ
40	IPG016WX	.50710	5.1494	.49392	.00071*	46.930	.46970	.50365	.42958	47.330	.50845	IPG016WX
41	IPG016WY	.51205	5.1992	.49729	.00071*	47.561	.47296	.51167	.43360	48.038	.50736	IPG016WY
42	G001-10A	.52525	5.5255	.50717	.00132	75.079	1.3408	.51779	.44294	54.685	.51818	G001-10A
43	G001-10W	.00082	.34447	.00300	.00123	27.624	.88590	-.00002	.00065	5.4917	-.00046	G001-10W
44	G001-10J	-.00002	.06904	.00073	-.00031	5.7577	.18380	-.00011	-.00017	1.0982	.00125	G001-10J
45	G001-10G	.51522	5.4370	.49644	.00177	74.260	1.3278	.51256	.42993	53.015	.50427	G001-10G
46	G001-10H	.52548	5.5207	.50316	.00213	74.752	1.3319	.51944	.43601	53.962	.52261	G001-10H
47	G001-02W	.00026	5.4052	.00586	.00108	10.393	.07478	.00127	.00009	3.7731	.00008	G001-02W
48	Blank	-.00025	-.00419	-.00037	-.00037	.00393	-.00029	.00000	-.00026	-.00209	.00072	Blank
49	CCV4	2.4707	24.609	2.4044	.48122	56.200	2.2760	2.4972	2.3978	57.219	1.0149	CCV4
50	CCB4	-.00018	-.00404	-.00018	-.00019	.00719	-.00023	.00044	-.00015	.06284	.00191	CCB4
51	G001-03W	.00137	2.3157	.00722	.00303	18.359	.65573	.00011	.00459	2.9066	.00051	G001-03W
52	G001-04	.00105	.01574	.00421	.00253	25.543	.37015	-.00003	.00350	3.7872	.00125	G001-04
53	G001-05	.00099	.01712	.00422	.00183	25.277	.36265	-.00003	.00355	3.6809	-.00027	G001-05
54	G001-06	.00048	.01707	.00036	.00046	.06818	.00028	.00019	.00097	.06302	.00090	G001-06

55	G001-07	.00045	.00328	.00022	-.00023	.06674	.00013	-.00007	.00006	.01942	.00036	G001-07
56	G001-08	.00058	40.953	.00350	.00128	32.112	.43034	.00069	.00046	3.1540	-.00019	G001-08
57	G001-09	.00302	21.715	.00787	.00329	47.125	.21867	.01228	.00302	11.108	.00064	G001-09
58	G001-11	.00090	24.839	.01007	.01139	14.002	.92872	-.00032	.00786	3.4727	.00003	G001-11
59	G001-12	.00064	.26380	.00285	.00052	11.760	.26449	.00013	.00044	2.4594	.00141	G001-12
60	Blank	-.00034	-.00469	.00020	.00003	-.00383	-.00036	-.00015	-.00027	-.03075	.00067	Blank
61	CCV5	2.4820	24.805	2.4106	.48043	56.487	2.2559	2.5078	2.3995	56.777	1.0043	CCV5
62	CCB5	-.00020	-.00124	.00000	.00033	.01558	-.00009	.00053	-.00007	.05704	.00122	CCB5
63	IPG023SB	-.00045	.00230	.00025	.00031	.01523	-.00022	.00010	-.00015	.05887	.00109	IPG023SB
64	IPG023SL	.50373	5.1498	.49717	.48732	47.665	.46704	.53060	.44060	47.600	.48743	IPG023SL
65	IPG023SC	.50542	5.1255	.49849	.48550	47.684	.47135	.53335	.44178	48.085	.48470	IPG023SC
66	IPG022WB	-.00001	-.00069	.00015	.00133	.00409	-.00028	.00006	-.00022	.02792	.00037	IPG022WB
67	IPG022WL	.51435	5.2290	.49949	.49553	47.741	.47259	.51492	.43559	48.147	.51309	IPG022WL
68	IPG022WC	.50860	5.1902	.49435	.49162	47.331	.46775	.50779	.43286	47.550	.50727	IPG022WC
69	LODV-01	.00305	.03441	.00300	.00511	.10675	.00324	.00341	.00319	.20244	.00684	LODV-01
70	LOQV-01	.01047	.21436	.01047	.01990	1.0079	.00967	.05549	.01041	1.0215	.01173	LOQV-01
71	LOQV-01	.00994	.21009	.01017	.02075	.99369	.00953	.05464	.01031	.98893	.00866	LOQV-01
72	Blank	-.00034	-.00160	-.00021	-.00037	.00218	-.00039	-.00008	-.00034	-.01369	.00144	Blank
73	CCV6	2.4934	24.875	2.4100	.48076	56.367	2.2717	2.5058	2.3992	57.443	1.0209	CCV6
74	CCB6	.00035	.00375	.00042	.00050	.02026	.00046	.00069*	.00032	.07714	.00017	CCB6
75	LODV-01	.00329	.04677	.00320	.05397	.12012	.00287	.00327	.00333	.13308	.00478	LODV-01
76	LOQV-01	.01164	.22051	.01055	.96890	.97595	.00992	.01100	.01015	.92754	.01086	LOQV-01
77	LOQV-01	.01192	.21738	.01069	.96622	.99695	.00983	.01096	.01016	.94111	.00970	LOQV-01
78	Blank	-.00042	-.00503	-.00032	.00039	.01022	-.00022	-.00009	-.00019	-.02517	.00063	Blank
79	MRLG1403	.01010	.21131	.01089	.00938	.97085	.00921	.01015	.00975	.91643	.00878	MRLG1403
80	MRLG1404	.00972	.10314	.00275	.09881	.19493	.00437	.00964	.00965	.88781	.01124	MRLG1404
81	CCV7	2.4867	24.885	2.4128	.47872	56.147	2.2612	2.5054	2.3962	56.988	1.0255	CCV7
82	CCB7	-.00018	-.00149	-.00075	.00029	.01222	.00000	.00035	-.00012	.03634	.00041	CCB7
83	G433-01	.03424	308.27	.05751	.01740	34.995	3.0367	.00030	.14348	5.6344	.00149	G433-01
84	G451-01T	.15394	105.91	.04326	.00385	17.639	1.6253	.16542	2.1737	.16786	.00190	G451-01T
85	G451-02T	.04637	30.876	.03183	.00147	4.1640	.51046	.08145	.69202	.03970	.00087	G451-02T
86	G433-02T	.17208	149.02	.02676	.00489	16.289	2.0498	.71145	3.4399	.20702	.00004	G433-02T
87	Blank	-.00024	.00127	.00010	.00142	.00351	.00001	.00008	-.00020	-.05399	-.00007	Blank
88	CCV8	2.4980	24.895	2.4117	.48198	56.248	2.2587	2.5136	2.4020	57.006	1.0195	CCV8
89	CCB8	-.00015	-.00404	-.00028	.00083	.00756	-.00025	.00038	-.00025	.01209	.00052	CCB8
90	IPG025WB	-.00008	-.00332	.00029	.00070	.00168	-.00036	.00002	-.00020	-.02710	.00102	IPG025WB
91	IPG025WL	.52636	5.3157	.50923	.00025*	48.125	.48410	.52255	.44446	49.520	.52954	IPG025WL
92	IPG025WC	.52609	5.3155	.50959	.00110*	48.193	.48244	.52499	.44470	49.489	.52762	IPG025WC
93	G069-09A	.51606	5.2397	.52575	.00230	87.666	.66591	.51297	.43882	50.498	.51940	G069-09A
94	G069-09	.00123	.00852	.03006	.00182	41.788	.20365	-.00003	.00359	1.9264	.00052	G069-09
95	G069-09J	.00004	-.00248	.00540	.00075	8.5341	.04126	-.00012	.00054	.38675	.00005	G069-09J
96	G069-09M	.52968	5.3019	.53425	.00165	88.718	.69287	.52782	.44366	50.798	.53715	G069-09M
97	G069-09S	.52740	5.2691	.53336	.00232	88.340	.73057	.52388	.44106	50.442	.53702	G069-09S
98	G069-01	.00097	.00505	.03784	.00216	22.679	.00298	.00034	.00055	3.7462	.00248	G069-01
99	Blank	-.00020	-.00302	.00011	-.00047	.01566	-.00013	-.00004	-.00009	.04514	.00069	Blank
100	CCV9	2.4713	24.487	2.4036	.48321	55.353	2.2553	2.5160	2.3914	57.585	1.0131	CCV9
101	CCB9	-.00008	-.00314	.00029	.00021	.01006	-.00021	.00049	-.00014	.06029	.00150	CCB9
102	G069-02	.00084	.03389	.04335	.00549	45.651	.00571	.00031	.00244	2.6078	.00368	G069-02
103	G069-03	.00051	-.00106	.04207	.00542	39.963	-.00008	-.00002	.00036	3.1153	.00354	G069-03
104	G069-04	.00090	.01595	.03932	.00315	29.253	.00092	.00019	.00199	11.290	.00389	G069-04
105	G069-05	.00078	.00349	.03268	.00197	22.061	.00160	-.00021	.00044	2.3150	.00145	G069-05
106	G069-06	.00056	.34582	.01473	.00041	18.576	.12241	.00054	.00135	17.489	.00123	G069-06
107	G069-07	.01352	.05780	.02630	.00084	11.698	.00111	.00054	.00132	1.7999	.00126	G069-07
108	G069-08	.00059	.01188	.02259	.00077	10.194	.05553	.00409	.00039	5.1678	.00176	G069-08
109	G075-02	.00250	3.1616	.04423	.37669	1708.8*	4.5218	.00164	.03432	976.34*	.00341	G075-02
110	Blank	-.00022	-.00428	.00000	.00086	.07004	-.00016	-.00016	-.00033	1.0358	.00132	Blank
111	CCV10	2.5128	24.812	2.4140	.48030	55.179	2.2330*	2.5254	2.3959	57.094	1.0206	CCV10

112	CCB10	-.00018	-.00198	-.00030	.00028	.00792	-.00003	.00035	-.00016	.31215*	.00106	CCB10
113	TXG006SB	.00072	-.00052	.00035	-.00046	.00913	-.00011	.00029	-.00002	.42309	.00246	TXG006SB
114	G468-01A	.53470	6.1666	.50187	7.7393	47.948	.50144	.52452	.45290	51.176	.56708	G468-01A
115	G468-01	.00122	1.0278	.00033	7.8776	2.3965	.03416	.00062	.00851	2.0953	.00516	G468-01
116	G468-01J	.00039	.21074	.00066	1.5971	.48947	.00668	.00012	.00141	.59429	.00059	G468-01J
117	G468-01M	.53696	6.2128	.50131	7.8730	48.942	.49944	.53123	.44942	51.767	.56257	G468-01M
118	G468-01S	.53828	6.2102	.50510	7.5900	48.772	.49649	.53159	.45114	51.463	.56627	G468-01S
119	Blank	-.00031	-.00371	-.00045	.00236	.00542	-.00025	.00000	-.00024	.25814	.00034	Blank
120	CCV11	2.5060	24.753	2.4138	.48099	54.938	2.2391*	2.5231	2.3986	57.244	1.0322	CCV11
121	CCB11	-.00008	-.00438	.00000	.00142	.00850	.00004	.00036	-.00008	.21453*	.00039	CCB11
122	TXG004WB	.00033	-.00196	-.00014	.00029	.03096	-.00013	-.00006	-.00023	.18664	.00106	TXG004WB
123	G033-01A	.51488	5.1668	.49682	.00194	50.257	.49680	.51287	.43639	49.331	.52063	G033-01A
124	G033-01	.00036	-.00027	.00101	.00107	4.1006	.03137	.00049	.00028	.97629	.00137	G033-01
125	G033-01J	-.00002	-.00230	-.00013	.00054	.83723	.00612	.00001	-.00014	.28752	.00053	G033-01J
126	G033-01M	.51488	5.1992	.49584	.00215	50.854	.49240	.51370	.43342	48.910	.51396	G033-01M
127	G033-01S	.51432	5.1740	.49649	.00098	50.460	.49401	.51555	.43218	48.855	.52305	G033-01S
128	G044-01	.00065	.01133	.01095	.00588	2.8268	.00059	.00045	.00003	2.1336	.00087	G044-01
129	G044-02	.00108	.02948	.01122	.00535	10.535	.00742	.00002	.00014	5.6310	.00189	G044-02
130	G044-03	.00038	.02621	.01096	.00613	10.407	.00761	-.00007	.00010	5.6184	.00118	G044-03
131	Blank	-.00015	-.00292	.00024	-.00001	.00192	-.00038	-.00011	-.00021	.11495	.00035	Blank
132	CCV12	2.5074	24.644	2.4117	.48412	54.645	2.2380*	2.5309	2.3974	57.267	1.0257	CCV12
133	CCB12	.00003	-.00382	-.00025	.00059	-.00350	-.00009	.00037	-.00002	.13309*	.00010	CCB12
134	IPG026SB	.00009	.00575	-.00050	.00047	.01165	.00004	.00016	-.00021	.14885	.00230	IPG026SB
135	IPG026SL	.53728	5.4040	.52482	.00125*	48.586	.48615	.56303	.46470	50.312	.51982	IPG026SL
136	IPG026SC	.54227	5.4491	.52995	.00110*	49.020	.49450	.56856	.46892	51.028	.52988	IPG026SC
137	G077-01A	.90016	179.42	1.6345	.04798	61.748	3.7936	.53091	.68665	57.655	.51659	G077-01A
138	G077-01	.38801	180.54	1.1860	.04817	16.423	3.4572	-.00262	.25304	9.5537	.00943	G077-01
139	G077-01J	.07689	37.568	.24017	.01023	3.3734	.70748	-.00108	.05014	1.8737	.00269	G077-01J
140	G077-01M	.86865	152.04	1.7744	.09409	67.944	3.9635	.53403	.63535	65.562	.51356	G077-01M
141	G077-01S	1.0088	204.17	2.2267	.12525	76.944	5.7412	.54696	.71184	72.063	.53053	G077-01S
142	G077-02	.27029	130.60	.80216	.05274	15.652	2.9743	-.00056	.12577	9.6088	.01172	G077-02
143	Blank	.00002	.00001	.00041	.00074	.01021	-.00006	-.00008	-.00017	.00582	.00109	Blank
144	CCV13	2.5139	24.751	2.4200	.47886	54.127	2.2214*	2.5310	2.3970	56.965	1.0480	CCV13
145	CCB13	.00006	-.00307	-.00034	.00082	.00491	-.00005	.00043	-.00021	.06675	.00078	CCB13
146	G077-03	.19762	179.17	.69098	.04768	9.7806	3.5521	.00231	.10576	7.7284	.00850	G077-03
147	G077-04	.23902	162.88	.77950	.05339	12.280	3.9712	.00124	.10160	8.1006	.00763	G077-04
148	G077-05	.16331	166.02	1.2648	.05319	8.8933	3.1265	.00496	.08390	6.8747	.00523	G077-05
149	G077-06	.07489	259.63	.33963	.05599	7.6415	3.4369	.01012	.09375	6.4378	.00770	G077-06
150	G077-07	.07822	156.36	.38779	.04679	7.0465	2.8490	.00598	.06410	6.0390	.00722	G077-07
151	G077-08	.06129	201.45	.30314	.06043	8.2415	3.9295	.00903	.07728	6.5358	.00788	G077-08
152	G077-09	.14366	134.47	1.0904	.05180	9.8912	2.6729	.00253	.07746	6.2678	.00577	G077-09
153	G077-10	.05906	116.92	.29589	.04617	6.7195	2.6914	.00412	.05208	5.1846	.00409	G077-10
154	G077-11	.07242	141.84	.41473	.04691	7.1391	2.7692	.00534	.06113	6.0080	.00571	G077-11
155	Blank	-.00032	.00418	.00001	.00146	.01193	-.00026	-.00012	-.00016	-.03060	.00006	Blank
156	CCV14	2.5069	24.571	2.4291	.48453	54.049	2.2208*	2.5457	2.4094	57.647	1.0280	CCV14
157	CCB14	.00010	-.00260	.00019	.00136	.00770	-.00011	.00035	-.00031	.02202	-.00011	CCB14
158	G077-12	.04938	132.21	.24460	.04150	5.9428	2.9262	.00585	.04885	5.2047	.00433	G077-12
159	G077-13	.26133	130.69	1.8533	.04461	20.628	5.9401	.00128	.09970	5.8460	.00806	G077-13
160	G077-14	.04690	88.669	.16073	.03302	4.8740	1.9439	.00345	.03903	3.8312	.00348	G077-14
161	G077-15	.04876	84.724	.16322	.03674	5.3311	1.8505	.00337	.04072	4.3205	.00626	G077-15
162	G077-16	.08528	283.18	.27765	.10127	9.5828	1.8003	.00496	.20017	9.5928	.00713	G077-16
163	G077-17	.15496	238.19	3.7897	.09058	7.8329	.74864	-.00025	.31268	8.7053	.00958	G077-17
164	G077-18	.16513	520.68*	2.9872	.08522	6.5339	1.9949	.00400	.41930	7.7337	.01631	G077-18
165	G077-19	1.8146	340.38	30.676	.07118	39.438	1.5589	.00097	.32859	13.183	.02221	G077-19
166	Blank	.00003	.02002	.00062	.00119	-.00103	-.00030	-.00012	-.00022	-.04857	.00070	Blank
167	CCV15	2.5315	24.839	2.4329	.48004	53.690*	2.2000*	2.5500	2.4145	57.059	1.0414	CCV15
168	CCB15	.00034	-.00114	-.00006	.00098	.00377	-.00001	.00031	-.00035	.02963	.00055	CCB15

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00013	.00117	-.00020	-.00002	-.00001	.00004	-.00028	.00267	Blank
2	S20									S20
3	S21									S21
4	S22							.15136		S22
5	S23							1.5548		S23
6	S24		1.1077							S24
7	S25		6.3834							S25
8	S26									S26
9	S27									S27
10	S28				.00630					S28
11	S29				.06116					S29
12	S30	.04639		.12057		.02579	.01407		.67254	S30
13	S31	.22615		.58554		.12476	.06972		6.5317	S31
14	ICV	.49528	61.304	.48929	2.3338	.48927	.49631	1.4591	2.4990	ICV
15	ICB	.00005	-.00414	.00013	.00048	-.00017	-.00066	.00000	-.00319	ICB
16	ICSA1	-.00007	.03173	.00116	-.00037	.00087	.01091	-.00044	.00038	ICSA1
17	ICSAB1	1.0510	77.989	.48180	.85889	.96310	.98268	.48695	.98192	ICSAB1
18	Blank	.00004	-.00564	.00010	-.00023	.00027	-.00037	-.00005	-.00338	Blank
19	MRLG1401	.00987	.99985	.01007	.01030	.00004	.00961	.01018	.01720	MRLG1401
20	MRLG1402	.00975	.50171	.00980	.01002	.00955	.00987	.01009	.00823	MRLG1402
21	CCV1	.49717	59.828	.48462	2.3806	.49048	.50081	1.4740	2.5059	CCV1
22	CCB1	.00008	.00276	.00005	.00053	.00028	-.00088	.00027	.00330	CCB1
23	IPG016WB	.00011	-.01068	-.00007	-.00050	.00000	-.00021	.00003	-.00161	IPG016WB
24	IPG016WL	.50433	50.541	.48642	.48934	.47726	.50863	.49884	.50930	IPG016WL
25	IPG016WC	.50319	51.065	.49345	.47943	.48236	.51576	.50690	.51062	IPG016WC
26	G001-10A	.49840	59.763	1.2823	.46766	.48422	.51899	.51027	.51165	G001-10A
27	G001-10	.00482	8.8133	.83887	.00287	.00265	.01402	.00545	.00526	G001-10
28	G001-10J	-.00016	1.7333	.18339	.00036	.00026	.00147	.00028	-.00164	G001-10J
29	G001-10M	.49958	57.635	1.2832	.45912	.47707	.50845	.49825	.49528	G001-10M
30	G001-10S	.51191	59.373	1.3073	.46837	.48694	.52206	.51174	.50679	G001-10S
31	G001-02	.00466	5.2388	.24571	.00322	.00228	.01120	.00667	.00516	G001-02
32	Blank	-.00002	.04331	.00263	.00016	.00047	-.00109	.00006	-.00291	Blank
33	CCV2	.48055	59.138	.47925	2.2252*	.48501	.48788	1.4307	2.4538	CCV2
34	CCB2	.00560*	.94556*	.00788*	.01563*	.00275	.00735*	.01794*	.00789	CCB2
35	G001-03	-.00017	14.668	.83320	.00009	.00016	.00681	.00020	.45826	G001-03
36	Blank	.00005	-.01676	.00003	-.00032	-.00026	-.00070	-.00001	-.00301	Blank
37	CCV3	.49601	59.875	.48375	2.3638	.49085	.49956	1.4711	2.5088	CCV3
38	CCB3	-.00003	-.00233	.00007	.00018	-.00019	-.00055	.00018	-.00300	CCB3
39	IPG016WQ	-.00004	-.01462	-.00002	-.00002	.00016	.00015	.00004	-.00019	IPG016WQ
40	IPG016WX	.50405	49.947	.48043	.49424	.47307	.50445	.50529	.50919	IPG016WX
41	IPG016WY	.50649	50.714	.48819	.49334	.48076	.51279	.51063	.51209	IPG016WY
42	G001-10A	.50643	59.599	1.2896	.48525	.48317	.52018	.51567	.51938	G001-10A
43	G001-10W	-.00021	7.9963	.82764	.00032	-.00014	.00596	-.00013	.00340	G001-10W
44	G001-10J	-.00001	1.6071	.17024	.00010	-.00014	.00119	.00000	-.00032	G001-10J
45	G001-10G	.50800	57.925	1.2909	.47198	.48072	.51424	.50706	.50294	G001-10G
46	G001-10H	.51750	58.885	1.2922	.48333	.48734	.52165	.51492	.51016	G001-10H
47	G001-02W	-.00015	4.3743	.22631	-.00031	.00025	.00312	.00101	.00321	G001-02W
48	Blank	.00001	-.00585	.00011	-.00031	-.00011	-.00087	.00005	-.00275	Blank
49	CCV4	.49552	59.917	.48623	2.3463	.48836	.49622	1.4588	2.5067	CCV4
50	CCB4	-.00001	.00137	.00001	-.00046	.00018	-.00066	-.00004	-.00302	CCB4
51	G001-03W	-.00017	14.857	.84232	-.00034	-.00011	.00718	.00010	.46524	G001-03W
52	G001-04	-.00015	14.921	.51088	-.00076	-.00047	.00504	-.00017	.00378	G001-04
53	G001-05	-.00022	14.665	.50374	-.00014	-.00029	.00514	-.00005	.00433	G001-05
54	G001-06	-.00013	1.5604	.00075	-.00017	-.00006	-.00041	.00009	.00274	G001-06

55	G001-07	.00009	1.5795	.00087	-.00083	.00027	-.00049	.00001	.00107	G001-07
56	G001-08	-.00016	48.302	.42360	.00038	.00018	.00349	.00028	.00312	G001-08
57	G001-09	-.00026	139.98	1.0989	-.00047	.00027	.00604	.00003	.00237	G001-09
58	G001-11	-.00021	20.509	.42460	-.00021	.00021	.00430	-.00016	.09294	G001-11
59	G001-12	.00482	11.419	.32710	.00010	.00021	.00388	-.00013	.00848	G001-12
60	Blank	.00017	.00114	.00005	-.00019	-.00015	-.00034	.00011	-.00318	Blank
61	CCV5	.49453	59.533	.48269	2.3413	.49149	.49828	1.4686	2.5001	CCV5
62	CCB5	.00008	.00164	-.00005	.00003	.00000	-.00049	.00008	-.00322	CCB5
63	IPG023SB	-.00011	.01488	-.00005	-.00101	.04224	-.00058	.00005	.00173	IPG023SB
64	IPG023SL	.48570	50.313	.48735	.47395	.52828	.51594	.51029	.52528	IPG023SL
65	IPG023SC	.48725	50.853	.49035	.47511	.52801	.51529	.50742	.52879	IPG023SC
66	IPG022WB	.00004	.00047	.00008	-.00016	.00008	-.00051	.00008	-.00029	IPG022WB
67	IPG022WL	.50928	50.791	.49139	.49553	.48457	.51682	.51297	.51801	IPG022WL
68	IPG022WC	.50442	50.147	.48463	.48997	.48168	.51254	.50863	.51318	IPG022WC
69	LODV-01	.00277	.11824	.00107	.00397	.14452	.00468	.00168	.02441	LODV-01
70	LOQV-01	.00970	1.0457	.01028	.00883	.29831	.10285	.01092	.02577	LOQV-01
71	LOQV-01	.00935	1.0331	.01014	.00868	.29518	.10152	.01067	.02415	LOQV-01
72	Blank	.00002	-.01387	-.00007	-.00036	-.00016	-.00096	-.00009	-.00261	Blank
73	CCV6	.49721	60.054	.48759	2.3610	.48829	.49768	1.4707	2.5088	CCV6
74	CCB6	.00021	.00640	.00025	.00082	.00008	-.00029	.00021	.01894*	CCB6
75	LODV-01	.00339	.10497	.00118	.00535	.00584	.00458	.00217	.01066	LODV-01
76	LOQV-01	.00991	1.0371	.01055	.00888	.86652	.99129	.01086	.02515	LOQV-01
77	LOQV-01	.00988	1.0270	.01049	.00860	.86443	.99010	.01059	.02413	LOQV-01
78	Blank	.00007	-.03396	-.00005	.00015	-.00012	-.00013	.00000	-.00341	Blank
79	MRLG1403	.01001	.98764	.01015	.00966	.00013	.00976	.01037	.01788	MRLG1403
80	MRLG1404	.00966	.47301	.00978	.00955	.00954	.00948	.00990	.00820	MRLG1404
81	CCV7	.49617	59.616	.48572	2.3683	.48730	.49869	1.4695	2.5084	CCV7
82	CCB7	-.00003	-.01477	-.00005	-.00027	-.00029	-.00007	.00012	-.00324	CCB7
83	G433-01	-.00013	108.71	1.0198	-.00260	.00305	.21122	.06577	.44356	G433-01
84	G451-01T	-.00032	.07402	.02477	-.00145	.01204	1.6512	.09174	.14326	G451-01T
85	G451-02T	-.00013	.04528	.00862	-.00089	.00914	.70712	.02624	.02683	G451-02T
86	G433-02T	-.00009	.09707	.02270	-.00150	.01339	2.6983	.11228	.11590	G433-02T
87	Blank	-.00017	-.04433	-.00010	.00041	.00006	-.00023	.00006	-.00331	Blank
88	CCV8	.49664	59.811	.48700	2.3527	.48844	.49879	1.4745	2.5064	CCV8
89	CCB8	.00010	-.02235	.00005	.00061	-.00005	-.00102	.00007	-.00314	CCB8
90	IPG025WB	.00023	-.02398	.00000	-.00018	.00029	-.00112	-.00001	-.00176	IPG025WB
91	IPG025WL	.51443	52.193	.50374	.51134	.48866	.52324	.52291	.52704	IPG025WL
92	IPG025WC	.51521	52.195	.50379	.51126	.49027	.52412	.52241	.52695	IPG025WC
93	G069-09A	.50369	125.63	.71937	.48799	.47996	.50958	.53299	.52046	G069-09A
94	G069-09	-.00011	76.568	.24487	-.00005	-.00021	.00271	.02324	.00169	G069-09
95	G069-09J	-.00001	15.359	.04943	.00027	.00002	.00011	.00466	-.00141	G069-09J
96	G069-09M	.51686	125.95	.73917	.49967	.49381	.52634	.54620	.52518	G069-09M
97	G069-09S	.51369	125.83	.73686	.49605	.48764	.52133	.54247	.52444	G069-09S
98	G069-01	.00004	126.59	.28508	-.00030	.00029	.00308	.04142	.00050	G069-01
99	Blank	.00002	.02211	-.00003	-.00013	-.00006	-.00083	-.00004	-.00334	Blank
100	CCV9	.49744	60.175	.49010	2.3458	.48433	.49334	1.4576	2.5011	CCV9
101	CCB9	-.00002	.01120	.00007	.00001	-.00031	-.00009	-.00006	-.00317	CCB9
102	G069-02	-.00006	89.386	.36854	.00019	-.00020	.00496	.02085	.00104	G069-02
103	G069-03	-.00006	77.814	.34219	-.00029	.00015	.00246	.02272	.00128	G069-03
104	G069-04	-.00006	105.43	.29648	-.00031	.00012	.00266	.02235	.00752	G069-04
105	G069-05	-.00015	31.855	.37695	-.00007	.00006	.00380	.01256	.00087	G069-05
106	G069-06	-.00005	108.56	.13716	.00001	.00022	.00105	.00027	.00023	G069-06
107	G069-07	-.00018	23.467	.25510	-.00006	.00002	.00264	.00848	.00426	G069-07
108	G069-08	-.00016	84.607	.12027	.00002	.00040	.00177	.02213	.00344	G069-08
109	G075-02	.00048	4091.1*	12.902	-.00091	.00071	.04883	.06350	.02546	G075-02
110	Blank	.00001	2.3868	.00042	.00012	-.00001	-.00049	.00009	-.00309	Blank
111	CCV10	.49708	59.479	.48944	2.3573	.48660	.49683	1.4729	2.5011	CCV10

112	CCB10	-.00017	.45162*	.00003	.00020	.00014	.00034	.00010	-.00289	CCB10
113	TXG006SB	-.00011	299.02*	.00131	-.00198	.00045	-.00046	-.00005	-.00166	TXG006SB
114	G468-01A	.52152	345.45	.57231	.48555	.47701	.50552	.51490	3.8733	G468-01A
115	G468-01	-.00006	303.91	.08786	-.00326	.00074	.00040	.00007	3.4774	G468-01
116	G468-01J	-.00026	63.346	.01765	-.00042	.00035	-.00049	.00002	.69085	G468-01J
117	G468-01M	.51550	348.51	.58856	.47880	.48656	.51667	.51935	4.1446	G468-01M
118	G468-01S	.50816	339.40	.58557	.48232	.48730	.51759	.52093	4.0460	G468-01S
119	Blank	.00001	.32249	-.00001	.00006	-.00008	-.00040	.00011	-.00318	Blank
120	CCV11	.50016	59.618	.49069	2.3750	.48628	.49606	1.4712	2.5092	CCV11
121	CCB11	-.00005	.23080*	-.00003	.00038	-.00030	-.00020	-.00003	-.00312	CCB11
122	TXG004WB	-.00010	.91762*	.00058	.00028	.00019	-.00057	.00000	.00108	TXG004WB
123	G033-01A	.49964	57.710	.57933	.50201	.47374	.50517	.50779	.51889	G033-01A
124	G033-01	-.00016	7.1954	.09615	.00017	-.00037	.00059	-.00016	.00343	G033-01
125	G033-01J	-.00003	1.5625	.01911	.00012	-.00003	-.00058	.00006	-.00168	G033-01J
126	G033-01M	.50861	57.682	.58921	.49089	.47993	.51114	.50633	.52028	G033-01M
127	G033-01S	.51074	57.460	.59230	.49770	.47927	.51144	.50569	.51852	G033-01S
128	G044-01	-.00013	15.113	.02046	.00004	-.00016	-.00026	.00414	.03113	G044-01
129	G044-02	-.00012	118.11	.11086	.00014	.00006	.00037	.00173	.02271	G044-02
130	G044-03	-.00008	117.19	.10892	-.00007	-.00023	.00043	.00165	.02194	G044-03
131	Blank	.00000	.19706	-.00012	-.00028	-.00012	-.00031	.00010	-.00236	Blank
132	CCV12	.50218	59.900	.49174	2.3922	.48563	.49372	1.4699	2.5036	CCV12
133	CCB12	.00007	.14302*	.00004	.00011	-.00008	-.00039	.00007	-.00327	CCB12
134	IPG026SB	-.00036	.16408	.00020	-.00101	.04224	-.00040	.00012	.01031*	IPG026SB
135	IPG026SL	.50671	53.084	.51848	.50521	.54833	.53611	.54048	.55211	IPG026SL
136	IPG026SC	.51247	53.893	.52536	.51230	.55263	.54244	.54514	.56226	IPG026SC
137	G077-01A	.49250	51.436	.62331	.46307	.52794	1.6004	.71904	50.834*	G077-01A
138	G077-01	.00003	.45038	.13666	-.00143	.05396	1.1234	.22228	51.853*	G077-01
139	G077-01J	.00003	.13430	.02724	-.00061	.01060	.22596	.04444	11.497	G077-01J
140	G077-01M	.50559	52.668	.68452	.46400	.53668	2.0433	.80748	50.278*	G077-01M
141	G077-01S	.52054	54.074	.75603	.46328	.55291	2.5031	.92503	59.086*	G077-01S
142	G077-02	-.00033	.47583	.11937	-.00231	.04706	1.2361	.26640	31.129	G077-02
143	Blank	.00011	.04445	-.00002	-.00028	-.00015	-.00052	.00010	-.00187	Blank
144	CCV13	.50308	59.575	.49481	2.4186	.48330	.49050	1.4719	2.5127	CCV13
145	CCB13	-.00003	.06391	.00005	-.00003	-.00039	-.00054	.00012	-.00220	CCB13
146	G077-03	-.00033	.24463	.07287	-.00241	.04417	1.3947	.35018	17.330	G077-03
147	G077-04	-.00038	.25809	.08745	-.00222	.04655	1.5400	.33948	23.032	G077-04
148	G077-05	-.00037	.37795	.09213	-.00266	.04762	1.3614	.31228	11.324	G077-05
149	G077-06	-.00036	.39421	.08533	-.00234	.04791	1.4661	.42971	2.1145	G077-06
150	G077-07	-.00029	.34777	.08778	-.00278	.04551	1.3108	.28987	3.1125	G077-07
151	G077-08	-.00040	.43861	.09363	-.00320	.04714	1.6096	.36973	1.2039	G077-08
152	G077-09	-.00033	.42113	.11222	-.00287	.04704	1.0148	.26457	11.334	G077-09
153	G077-10	-.00068	.44062	.08447	-.00265	.04628	.95751	.25536	2.1979	G077-10
154	G077-11	-.00046	.34938	.10079	-.00209	.04770	1.0634	.29456	2.1765	G077-11
155	Blank	-.00005	.01047	-.00010	-.00006	-.00008	-.00137	-.00005	-.00292	Blank
156	CCV14	.50766	60.353	.50113	2.3985	.48562	.48987	1.4685	2.5222	CCV14
157	CCB14	.00002	.01351	-.00004	-.00026	-.00017	-.00032	.00002	-.00224	CCB14
158	G077-12	-.00061	.35783	.08709	-.00286	.04495	.99634	.29467	.91457	G077-12
159	G077-13	-.00027	.35108	.09964	-.00251	.04982	.90860	.25949	26.841	G077-13
160	G077-14	-.00067	.27526	.06182	-.00281	.04363	.79960	.21005	.82855	G077-14
161	G077-15	-.00050	.29161	.06617	-.00324	.04664	.82751	.20321	.84571	G077-15
162	G077-16	-.00029	.37666	.12459	-.00507*	.04847	1.0458	.47763	20.698	G077-16
163	G077-17	.00000	.62755	.09539	-.00308	.04964	1.3250	.43353	50.908*	G077-17
164	G077-18	.00039	.59050	.09060	-.00469	.05029	1.1549	.76630	76.232*	G077-18
165	G077-19	.00162	1.9025	.15157	-.00079	.06520	.67622	.25437	165.84*	G077-19
166	Blank	.00006	-.01078	-.00007	-.00013	.00002	-.00004	-.00016	.00493	Blank
167	CCV15	.50687	59.709	.50118	2.4075	.48798	.49297	1.4808	2.5198	CCV15
168	CCB15	.00013	.01071	.00001	.00021	.00011	-.00100	-.00004	-.00101	CCB15

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 7/15/11 16:30

End Date: 7/15/11 20:11

SOP #	Rev. #
☑ EMAX-6010	7
☑ EMAX-6010C	1
☐ EMAX-200.7	2
☐ EMAX-	

Comments:

Boron not reportable. Boron in S0, (carryover from previous run).

Book #: AD8-020

Instrument No.: D8

Analytical Batch: 1D86011

Analytical Sequence: S-1166010(V21)

Method File: 1166010(V21)

Database: Emax14

	STANDARDS ID		STANDARDS ID
S0	SM1B14-6701	S30	SM1B14-4201
S1	NA	S31	4202
S2		ICV	6705
S3		CCV	6302
S4		ICSA	5001
S5		ICSAB	6704
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	TH 7/15/11
S9		MRL1,2,3	SM1B14-6501
S10		MRL2,4	5302
S11			
S12			
S16			
S17			
S18			
S20	SM1B14-6301		
S21	6503		
S22	6504		
S23	6402		
S24	6702		
S25	6703		
S26	5901		
S27	5902		
S28	5701		
S29	5702		

Analyzed By: TH

Date: 7/18/11

SEQUENCE FILE : ID8G011

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8G011001	Blank	16:30	07/15/11	1.000
ID8G011002	S20	16:33	07/15/11	1.000
ID8G011003	S21	16:36	07/15/11	1.000
ID8G011004	S22	16:39	07/15/11	1.000
ID8G011005	S23	16:42	07/15/11	1.000
ID8G011006	S24	16:46	07/15/11	1.000
ID8G011007	S25	16:49	07/15/11	1.000
ID8G011008	S26	16:52	07/15/11	1.000
ID8G011009	S27	16:55	07/15/11	1.000
ID8G011010	S28	16:58	07/15/11	1.000
ID8G011011	S29	17:01	07/15/11	1.000
ID8G011012	S30	17:04	07/15/11	1.000
ID8G011013	S31	17:07	07/15/11	1.000
ID8G011014	ICV	17:10	07/15/11	1.000
ID8G011015	ICB	17:13	07/15/11	1.000
ID8G011016	MRLG1501	17:16	07/15/11	1.000
ID8G011017	MRLG1502	17:19	07/15/11	1.000
ID8G011018	ICSA1	17:22	07/15/11	1.000
ID8G011019	ICSAB1	17:25	07/15/11	1.000
ID8G011020	CCV1	17:28	07/15/11	1.000
ID8G011021	CCB1	17:31	07/15/11	1.000
ID8G011022	LOQV	17:34	07/15/11	1.000
ID8G011023	LOQV	17:37	07/15/11	1.000
ID8G011024	IDL-01	17:42	07/15/11	1.000
ID8G011025	IDL-02	17:45	07/15/11	1.000
ID8G011026	IDL-03	17:48	07/15/11	1.000
ID8G011027	IDL-04	17:51	07/15/11	1.000
ID8G011028	IDL-05	17:54	07/15/11	1.000
ID8G011029	IDL-06	17:57	07/15/11	1.000
ID8G011030	IDL-07	18:00	07/15/11	1.000
ID8G011031	CCV2	18:03	07/15/11	1.000
ID8G011032	CCB2	18:06	07/15/11	1.000
ID8G011033	IPG026SQ	18:09	07/15/11	1.000
ID8G011034	G077-01A	18:12	07/15/11	10.00
ID8G011035	G077-01T	18:15	07/15/11	10.00
ID8G011036	G077-01J	18:18	07/15/11	50.00
ID8G011037	G077-01G	18:21	07/15/11	10.00
ID8G011038	G077-01H	18:24	07/15/11	10.00
ID8G011039	Blank	18:27	07/15/11	1.000
ID8G011040	MRLG1503	18:30	07/15/11	1.000
ID8G011041	MRLG1504	18:33	07/15/11	1.000
ID8G011042	CCV3	18:36	07/15/11	1.000
ID8G011043	CCB3	18:39	07/15/11	1.000
ID8G011044	G069-02W	18:42	07/15/11	1.000
ID8G011045	G069-03W	18:45	07/15/11	1.000
ID8G011046	G069-04W	18:48	07/15/11	1.000
ID8G011047	G069-05W	18:51	07/15/11	1.000
ID8G011048	G069-06W	18:54	07/15/11	1.000
ID8G011049	G069-07W	18:57	07/15/11	1.000
ID8G011050	G069-08W	18:59	07/15/11	1.000
ID8G011051	Blank	19:02	07/15/11	1.000
ID8G011052	CCV4	19:06	07/15/11	1.000
ID8G011053	CCB4	19:08	07/15/11	1.000
ID8G011054	IPG027SB	19:11	07/15/11	1.000

ID8G01I055	IPG027SL	19:15	07/15/11	1.000
ID8G011056	IPG027SC	19:17	07/15/11	1.000
ID8G011057	G491-01A	19:20	07/15/11	1.000
ID8G011058	G491-01	19:23	07/15/11	1.000
ID8G011059	G491-01J	19:26	07/15/11	5.000
ID8G011060	G077-24A	19:29	07/15/11	1.000
ID8G011061	G077-24	19:32	07/15/11	1.000
ID8G011062	G077-24J	19:35	07/15/11	5.000
ID8G011063	Blank	19:37	07/15/11	1.000
ID8G011064	CCV5	19:41	07/15/11	1.000
ID8G011065	CCB5	19:43	07/15/11	1.000
ID8G011066	G077-24M	19:46	07/15/11	1.000
ID8G011067	G077-24S	19:49	07/15/11	1.000
ID8G011068	G077-20	19:52	07/15/11	1.000
ID8G011069	G077-21	19:55	07/15/11	1.000
ID8G011070	G077-22	19:59	07/15/11	1.000
ID8G011071	G077-23	20:01	07/15/11	1.000
ID8G011072	Blank	20:05	07/15/11	1.000
ID8G011073	CCV6	20:08	07/15/11	1.000
ID8G011074	CCB6	20:11	07/15/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8G011 DATE : 07/15/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	104	100	103	97	101	97	99	98	96	95	99	99	96	98	96	94	99	96	95	104	101	100	98	97	93	99	98	99
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	97	----	----	----	----	----	----	95	----	----	----	94	----	----	98	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	97	101	102	98	99	94	93	93	91	93	103	94	94	102	96	93	100	93	99	100	106	104	96	88	91	98	96	97
CCV1	103	101	102	99	99	97	99	101	95	96	99	99	96	99	96	94	101	96	96	102	100	102	98	96	97	98	98	102
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	105	99	101	100	100	96	98	99	95	96	100	100	96	99	97	95	101	97	97	101	99	103	99	95	97	99	98	100
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG026SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1503	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1504	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	103	100	101	99	99	96	99	99	95	96	99	99	96	99	96	94	100	96	95	102	100	101	98	95	97	98	98	100
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	101	101	99	99	96	99	98	95	96	99	99	96	99	96	94	100	96	95	101	100	101	99	96	97	97	98	100
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG027SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPG027SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG027SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	104	101	101	99	98	96	99	98	95	96	100	100	96	99	95	93	101	96	95	101	100	101	98	96	97	97	99	99
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	106	102	103	100	98	96	100	98	96	96	100	100	96	99	95	94	101	96	95	103	100	101	99	98	97	98	99	100
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8G011 (WATER) DATE : 07/15/11 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	6.84	2.61	1.54	.280	.120	-21.1	.030	69.3	.130	-.010	.370	1.53	-.300	.560	8.90	-.030	.460	-.070	94.8	-.860	-.080	-5.96	.070	-.670	-.200	.030	-.100	3.12
MRLG1501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	-3.13	2.68	1.70	-.070	-12.0	.760	----	.530	-.080	1.16	----	5.02	4.22	----	1.71	-1.29	1.02	111	-.360	.050	40.1	1.21	-4.17	.540	-1.91	-.570	2.78
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	12.3	1.94	1.31	.320	.060	-28.5	.010	41.9	.040	.060	.120	6.26	.250	.810	16.3	.230	.520	-.040	82.9	.080	-.110	-6.78	-.010	.270	-.490	-.170	.080	.800
LOQV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	2.56	.770	-.080	.410	.000	-35.5	-.020	14.1	.030	-.020	.170	-.020	.310	.740	21.7	-.010	.370	-.090	75.9	.800	.050	-18.0	.080	-.550	-.010	-.280	.010	.400
IPG026SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1503	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1504	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	14.5	1.38	-1.13	.440	.090	-39.5	-.010	17.6	.140	-.050	.000	2.47	-.090	-.300	21.0	.040	.430	-.240	47.5	.300	-.030	-31.3	.070	-.200	.220	.120	-.180	.400
G069-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	7.80	1.45	.410	.630	.130	-42.2	-.010	16.7	.100	.060	.090	2.23	.100	-.350	5.62	-.020	.590	-.020	77.0	.330	.000	3.95	.180	-.580	-.330	.330	-.030	3.59
IPG027SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPG027SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG027SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	9.74	1.47	.300	.510	.090	-45.6	-.030	13.1	.110	-.200	.100	2.57	-.530	.320	15.5	.240	.380	-.200	34.4	-.200	.000	-41.6	.080	-.710	-.410	.200	.010	.620
G077-24M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	14.6	1.54	1.45	.440	.110	-46.2	.010	17.6	.120	.020	.220	14.6	.110	.260	16.6	.090	.430	-.160	-.310	.750	-.070	-45.1	.050	.420	-.050	.380	-.020	3.36

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8G011 (SOIL) DATE : 07/15/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	6.84	2.61	1.54	.280	.120	-21.1	.030	69.3	.130	-.010	.370	1.53	-.300	.560	8.90	-.030	.460	-.070	94.8	-.860	-.080	-5.96	.070	-.670	-.200	.030	-.100	3.12
MRLG1501	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1502	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	-3.13	2.68	1.70	-.070	-12.0	.760	----	.530	-.080	1.16	----	5.02	4.22	----	1.71	-1.29	1.02	111	-.360	.050	40.1	1.21	-4.17	.540	-1.91	-.570	2.78
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	12.3	1.94	1.31	.320	.060	-28.5	.010	41.9	.040	.060	.120	6.26	.250	.810	16.3	.230	.520	-.040	82.9	.080	-.110	-6.78	-.010	.270	-.490	-.170	.080	.800
LOQV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	2.56	.770	-.080	.410	.000	-35.5	-.020	14.1	.030	-.020	.170	-.020	.310	.740	21.7	-.010	.370	-.090	75.9	.800	.050	-18.0	.080	-.550	-.010	-.280	.010	.400
IPG026SQ	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01G	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-01H	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1503	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1504	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	14.5	1.38	-1.13	.440	.090	-39.5	-.010	17.6	.140	-.050	.000	2.47	-.090	-.300	21.0	.040	.430	-.240	47.5	.300	-.030	-31.3	.070	-.200	.220	.120	-.180	.400
G069-02W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-03W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-04W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-05W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-06W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-07W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G069-08W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	7.80	1.45	.410	.630	.130	-42.2	-.010	16.7	.100	.060	.090	2.23	.100	-.350	5.62	-.020	.590	-.020	77.0	.330	.000	3.95	.180	-.580	-.330	.330	-.030	3.59
IPG027SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

IPG027SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG027SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G491-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	9.74	1.47	.300	.510	.090	-45.6	-.030	13.1	.110	-.200	.100	2.57	-.530	.320	15.5	.240	.380	-.200	34.4	-.200	.000	-41.6	.080	-.710	-.410	.200	.010	.620
G077-24M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-24S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	14.6	1.54	1.45	.440	.110	-46.2	.010	17.6	.120	.020	.220	14.6	.110	.260	16.6	.090	.430	-.160	-.310	.750	-.070	-45.1	.050	.420	-.050	.380	-.020	3.36

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8G011001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8G011002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8G011003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8G011004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8G011005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8G011006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8G011007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8G011008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8G011009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8G011010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8G011011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8G011012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8G011013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8G011014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8G011015			1	☒	3XIDL	None
16	3	2	3	1	QC	MRLG1501		ID8G011016			1	☒	MRL-EMAX	None
17	4	2	4	1	QC	MRLG1502		ID8G011017			1	☒	MRL-AFCEE	None
18	5	2	5	1	QC	ICSA1		ID8G011018			1	☒	ICSA	None
19	6	2	6	1	QC	ICSAB1		ID8G011019			1	☒	ICSAB	None
20	7	2	7	1	QC	CCV1		ID8G011020			1	☒	CCV	None
21	8	2	8	1	QC	CCB1		ID8G011021			1	☒	3XIDL	None
22	16	2	4	2	Unk	LOQV	3010	ID8G011022			1	☒	unk	---
23	17	2	5	2	Unk	LOQV	3050	ID8G011023			1	☒	unk	---
24	9	2	9	1	Unk	IDL-01		ID8G011024			1	☒	unk	---
25	10	2	10	1	Unk	IDL-02		ID8G011025			1	☒	unk	---
26	11	2	11	1	Unk	IDL-03		ID8G011026			1	☒	unk	---
27	12	2	12	1	Unk	IDL-04		ID8G011027			1	☒	unk	---
28	13	2	1	2	Unk	IDL-05		ID8G011028			1	☒	unk	---
29	14	2	2	2	Unk	IDL-06		ID8G011029			1	☒	unk	---
30	15	2	3	2	Unk	IDL-07		ID8G011030			1	☒	unk	---
31	18	2	6	2	QC	CCV2		ID8G011031			1	☒	CCV	None
32	19	2	7	2	QC	CCB2		ID8G011032			1	☒	3XIDL	None
33	20	2	8	2	QC	IPG026SQ		ID8G011033			1	☒	1/2LOQ	None
34	21	2	9	2	Unk	G077-01A	10X	ID8G011034			1	☒	unk	---
35	22	2	10	2	Unk	G077-01T	10X	ID8G011035			1	☒	unk	---
36	23	2	11	2	Unk	G077-01J	50X	ID8G011036			1	☒	unk	---
37	24	2	12	2	Unk	G077-01G	10X	ID8G011037			1	☒	unk	---
38	25	2	1	3	Unk	G077-01H	10X	ID8G011038			1	☒	unk	---
39	26	2	2	3	Blank	Blank		ID8G011039			1	☐		---

70175

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	27	2	3	3	QC	MRLG1503		ID8G011040			1	☒	MRL-EMAX	None
41	28	2	4	3	QC	MRLG1504		ID8G011041			1	☒	MRL-AFCEE	None
42	29	2	5	3	QC	CCV3		ID8G011042			1	☒	CCV	None
43	30	2	6	3	QC	CCB3		ID8G011043			1	☒	3XIDL	None
44	52	2	4	5	Unk	G069-02W		ID8G011044			1	☒	unk	---
45	53	2	5	5	Unk	G069-03W		ID8G011045			1	☒	unk	---
46	54	2	6	5	Unk	G069-04W		ID8G011046			1	☒	unk	---
47	55	2	7	5	Unk	G069-05W		ID8G011047			1	☒	unk	---
48	56	2	8	5	Unk	G069-06W		ID8G011048			1	☒	unk	---
49	57	2	9	5	Unk	G069-07W		ID8G011049			1	☒	unk	---
50	58	2	10	5	Unk	G069-08W		ID8G011050			1	☒	unk	---
51	59	2	11	5	Blank	Blank		ID8G011051			1	☐		---
52	60	2	12	5	QC	CCV4		ID8G011052			1	☒	CCV	None
53	61	3	1	1	QC	CCB4		ID8G011053			1	☒	3XIDL	None
54	31	2	7	3	QC	IPG027SB		ID8G011054			1	☒	1/2LOQ	None
55	32	2	8	3	QC	IPG027SL		ID8G011055			1	☒	LCS	None
56	33	2	9	3	QC	IPG027SC		ID8G011056			1	☒	LCS	None
57	34	2	10	3	Unk	G491-01A		ID8G011057			1	☒	unk	---
58	35	2	11	3	Unk	G491-01		ID8G011058			1	☒	unk	---
59	36	2	12	3	Unk	G491-01J		ID8G011059			1	☒	unk	---
60	37	2	1	4	Unk	G077-24A		ID8G011060			1	☒	unk	---
61	38	2	2	4	Unk	G077-24		ID8G011061			1	☒	unk	---
62	39	2	3	4	Unk	G077-24J		ID8G011062			1	☒	unk	---
63	40	2	4	4	Blank	Blank		ID8G011063			1	☐		---
64	41	2	5	4	QC	CCV5		ID8G011064			1	☒	CCV	None
65	42	2	6	4	QC	CCB5		ID8G011065			1	☒	3XIDL	None
66	43	2	7	4	Unk	G077-24M		ID8G011066			1	☒	unk	---
67	44	2	8	4	Unk	G077-24S		ID8G011067			1	☒	unk	---
68	45	2	9	4	Unk	G077-20		ID8G011068			1	☒	unk	---
69	46	2	10	4	Unk	G077-21		ID8G011069			1	☒	unk	---
70	47	2	11	4	Unk	G077-22		ID8G011070			1	☒	unk	---
71	48	2	12	4	Unk	G077-23		ID8G011071			1	☒	unk	---
72	49	2	1	5	Blank	Blank		ID8G011072			1	☐		---
73	50	2	2	5	QC	CCV6		ID8G011073			1	☒	CCV	None
74	51	2	3	5	QC	CCB6		ID8G011074			1	☒	3XIDL	None

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INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00180	.00001	-.00001	.00050	.00018	.00537	-.00005	.00097	-.00002	-.00098	Blank
2	S20					.86281		.13939				S20
3	S21					8.5034		1.3290				S21
4	S22				.37454						.16035	S22
5	S23				3.7969						1.6042	S23
6	S24						.10361					S24
7	S25						1.0261					S25
8	S26	.24339							1.0503	.15765		S26
9	S27	8.5105							9.6036	1.5081		S27
10	S28		.00534									S28
11	S29		.05393									S29
12	S30			.00133								S30
13	S31			.00538								S31
14	ICV	104.02	1.4961	1.0338	1.9484	1.5141	2.4250	1.9899	73.199	2.3880	.94918	ICV
15	ICB	.00684	.00261	.00154	.00028	.00012	-.02111*	.00003	.06932	.00013	-.00001	ICB
16	MRLG1501	.21513	.09901	.01007	.01028	.01010	.07306*	.01023	.99321	.01003	.00961	MRLG1501
17	MRLG1502	.21848	.04942	.01060	.00485	.00405	.07218*	.00502	.46555	.00967	.00956	MRLG1502
18	ICSA1	389.84	-.00313	.00268	.00170	-.00007	-.01195	.00076	474.81	.00053	-.00008	ICSA1
19	ICSAB1	387.04	1.0108	1.0152	.49168	.49674	.47160	.93272	462.53	.45713	.46589	ICSAB1
20	CCV1	103.30	1.5171	1.0225	1.9812	1.4830	2.4172	1.9833	75.516	2.3696	.96105	CCV1
21	CCB1	.01230	.00194	.00131	.00032	.00006	-.02851*	.00001	.04194	.00004	.00006	CCB1
22	LOQV	.21690	.10038	.00997	.01001	.00987	.06263	.01025	.97930	.01000	.00927	LOQV
23	LOQV	.21309	.10037	.01019	.01006	.01010	.06340	.01053	1.1164	.01009	.00993	LOQV
24	IDL-01	-.00560	.00051	.00084	-.00015	-.00004	-.02992*	-.00005	.08382	.00001	-.00003	IDL-01
25	IDL-02	-.00333	.00072	.00124	.00002	-.00005	-.03098*	-.00004	.08181	-.00003	.00003	IDL-02
26	IDL-03	-.00450	-.00031	.00149	.00012	-.00005	-.03282*	-.00005	.08484	-.00003	-.00005	IDL-03
27	IDL-04	-.00318	-.00004	-.00049	.00005	-.00009	-.03417*	-.00003	.08419	-.00009	-.00010	IDL-04
28	IDL-05	-.00409	-.00002	.00017	-.00033	-.00003	-.03624*	-.00006	-.01642	-.00006	-.00002	IDL-05
29	IDL-06	-.00404	-.00013	.00102	-.00028	-.00008	-.03800*	-.00004	-.01679	-.00002	-.00002	IDL-06
30	IDL-07	-.00369	-.00122	.00053	-.00025	-.00004	-.03914*	-.00006	-.01728	-.00006	.00005	IDL-07
31	CCV2	105.48	1.4918	1.0079	2.0043	1.4933	2.4093	1.9504	74.084	2.3832	.96253	CCV2
32	CCB2	.00256	.00077	-.00008	.00041	.00000	-.03547*	-.00002	.01410	.00003	-.00002	CCB2
33	IPG026SQ	.00175	.00084	-.00027	.00320	-.00006	-.03755	-.00015	.01542	.00049	.00000	IPG026SQ
34	G077-01A	13.937	2.5412	.52507	.60696	.51475	.46554	.54202	58.467	.51309	.49849	G077-01A
35	G077-01T	8.4034	.00456	.00730	.10660	.00073	-.03403*	.03068	8.6455	.01838	.00514	G077-01T
36	G077-01J	1.7308	.00050	.00237	.02260	.00015	-.03876*	.00628	1.8024	.00388	.00100	G077-01J
37	G077-01G	16.100	.22276	.05770	.16907	.05373	.01395	.08171	15.293	.07313	.05560	G077-01G
38	G077-01H	21.363	.22516	.06143	.21678	.05588	.01722	.09160	20.597	.08310	.06018	G077-01H
39	Blank	.00332	.00079	.00022	.00052	-.00006	-.04290	-.00004	.06434	-.00007	-.00002	Blank
40	MRLG1503	.21393	.09732	.00971	.01011	.00990	.04962*	.01009	.97068	.01000	.00952	MRLG1503
41	MRLG1504	.20727	.04817	.01062	.00496	.00396	.05104*	.00493	.45759	.00956	.00956	MRLG1504
42	CCV3	103.25	1.5066	1.0124	1.9766	1.4805	2.4085	1.9746	73.932	2.3717	.96371	CCV3
43	CCB3	.01452	.00138	-.00113	.00044	.00009	-.03953*	-.00001	.01763	.00014	-.00005	CCB3
44	G069-02W	.04380	-.00006	.00076	.00056	-.00008	.05775	-.00001	51.778	.00497	.00131	G069-02W
45	G069-03W	.01391	.00084	-.00144	.00099	-.00004	.05187	-.00002	47.521	.00243	.00004	G069-03W
46	G069-04W	.02327	.00037	-.00021	.00916	-.00003	.06970	.00001	37.142	.00266	.00014	G069-04W
47	G069-05W	.01496	.00068	-.00085	.00536	-.00009	.00829	-.00004	64.692	.00413	-.00002	G069-05W
48	G069-06W	.01818	.00066	.00118	.01789	-.00010	1.1216	-.00006	11.315	.00165	-.00002	G069-06W
49	G069-07W	.02286	.00028	-.00017	.00597	-.00006	-.01167*	-.00004	40.857	.00361	.00011	G069-07W
50	G069-08W	.01989	-.00007	.00196	.00707	-.00004	.35438	-.00009	16.813	.00044	.00031	G069-08W
51	Blank	.01573	.00047	.00029	.00028	-.00003	-.04402	-.00003	.02778	.00001	.00003	Blank
52	CCV4	104.07	1.5121	1.0124	1.9748	1.4778	2.4078	1.9888	73.863	2.3790	.96312	CCV4
53	CCB4	.00780	.00145	.00041	.00063	.00013	-.04225*	-.00001	.01666	.00010	.00006	CCB4
54	IPG027SB	.00306	.00005	.00099	.00047	-.00004	-.04452	-.00011	-.01854	.00048	-.00019	IPG027SB

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
55	IPG027SL	5.1777	2.5059	.49179	.50329	.50830	.41636	.50017	50.333	.49473	.50437	IPG027SL
56	IPG027SC	5.2310	2.5319	.50665	.50874	.51379	.41877	.50767	50.612	.50046	.50723	IPG027SC
57	G491-01A	5.3968	2.4699	.50682	.50635	.50420	.42809	.49616	49.188	.49452	.50482	G491-01A
58	G491-01	.02558	.00430	.00741	.00195	.00024	-.03774*	.00000	.33735	.00229	.00229	G491-01
59	G491-01J	.00107	.00027	.00197	.00053	.00000	-.04461*	-.00006	.08158	.00055	.00048	G491-01J
60	G077-24A	179.79	2.4534	.57753	2.2987	.51890	.43374	.51283	69.198	.69946	.65770	G077-24A
61	G077-24	172.53	.00702	.07713	1.8164	.01217	-.01524*	.02426	21.046	.22321	.16686	G077-24
62	G077-24J	38.208	.00179	.01640	.37320	.00242	-.04211*	.00476	4.3885	.04677	.03402	G077-24J
63	Blank	.00648	.00133	.00084	.00068	-.00001	-.04757	-.00003	.02337	.00008	-.00022	Blank
64	CCV5	104.46	1.5126	1.0123	1.9780	1.4708	2.3914	1.9869	73.448	2.3776	.96392	CCV5
65	CCB5	.00974	.00147	.00030	.00051	.00009	-.04555*	-.00003	.01313	.00011	-.00020	CCB5
66	G077-24M	266.71	1.9997	.59312	2.4309	.51636	.42785	.51575	69.352	.79891	.72586	G077-24M
67	G077-24S	273.36	1.9978	.57554	2.2349	.52119	.43426	.51518	69.858	.76061	.68406	G077-24S
68	G077-20	125.55	.02659	.14123	1.1132	.00978	.01890	.43736	24.849	.20871	.05085	G077-20
69	G077-21	80.277	.04835	.18543	.71742	.01028	.02801	1.5252	79.028	.22321	.05460	G077-21
70	G077-22	153.23	.00728	.11584	1.8916	.01254	-.00453	.23995	21.831	.23512	.07634	G077-22
71	G077-23	134.69	.00120	.18729	2.4584	.01674	.01015	.14864	22.576	.40961	.37329	G077-23
72	Blank	.01916	.00062	.00101	.00064	-.00003	-.04876	-.00004	.02900	-.00001	.00002	Blank
73	CCV6	105.76	1.5234	1.0310	2.0096	1.4725	2.4085	2.0077	73.165	2.3937	.96245	CCV6
74	CCB6	.01455	.00154	.00145	.00044	.00011	-.04622*	.00001	.01756	.00012	.00002	CCB6

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INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00116	.00002	.00012	-.00024	-.00001	.00003	.00000	-.00067	-.00076	.00001	Blank
2	S20			.20224			.10098					S20
3	S21			1.9871			.99847					S21
4	S22	.32706	.05965									S22
5	S23	3.2212	2.3265									S23
6	S24							.66414				S24
7	S25							6.5873				S25
8	S26								.81078	.34536		S26
9	S27								7.7723	3.3211		S27
10	S28					.02046						S28
11	S29					.20236						S29
12	S30				.02902						.00147	S30
13	S31				.14238						.00586	S31
14	ICV	2.4869	24.699	2.4097	.49026	57.702	2.3565	2.4696	2.4016	57.141	1.0355	ICV
15	ICB	.00037	.00153	-.00030	.00056	.00890	-.00003	.00046	-.00007	.09483	-.00086	ICB
16	MRLG1501	.01036	.20701	.00997	.01041	.98968	.01007	.01022	.00986	1.0016	.01024	MRLG1501
17	MRLG1502	.01031	.10294	.00239*	.10121	.21462	.00471	.00963	.00991	.97906	.00976	MRLG1502
18	ICSA1	.00116	187.87	.00502	.00422	195.62	.00171	-.00129	.00102	.11124	-.00036	ICSA1
19	ICSAB1	.51253	188.41	.93881	1.0238	191.56	.46548	1.0017	.93417	74.033	1.0031	ICSAB1
20	CCV1	2.4846	24.691	2.3927	.49531	57.674	2.3523	2.5189	2.4083	57.375	1.0234	CCV1
21	CCB1	.00012	.00626	.00025	.00081	.01627	.00023	.00052	-.00004	.08288	.00008	CCB1
22	LOQV	.01160	.20768	.01086	.96178	.97752	.00968	.01023	.00985	.98236	.01027	LOQV
23	LOQV	.01019	.21111	.01004	.02057	1.0120	.01005	.05090	.01008	.98627	.01032	LOQV
24	IDL-01	-.00003	.00084	-.00012	.00010	.00807	-.00001	.00004	.00006	.00740	-.00001	IDL-01
25	IDL-02	-.00002	-.00024	-.00057	.00103	.00274	-.00045	-.00001	-.00009	.02503	.00030	IDL-02
26	IDL-03	.00004	-.00052	.00061	.00021	.01004	-.00024	-.00006	-.00024	.00465	.00020	IDL-03
27	IDL-04	-.00008	-.00162	.00032	.00125	-.00370	-.00015	-.00011	-.00015	-.00861	-.00032	IDL-04
28	IDL-05	.00027	-.00137	.00001	.00068	.00011	-.00027	-.00012	-.00020	-.01629	.00160	IDL-05
29	IDL-06	-.00024	-.00004	-.00007	.00027	.01249	-.00007	-.00009	-.00012	.00957	-.00031	IDL-06
30	IDL-07	-.00003	-.00044	-.00009	.00077	.00198	-.00031	-.00012	-.00009	-.00572	-.00001	IDL-07
31	CCV2	2.4958	24.883	2.4004	.49715	57.992	2.3712	2.5238	2.4176	58.130	1.0128	CCV2
32	CCB2	.00017	-.00002	.00031	.00074	.02173	-.00001	.00037	-.00009	.07595	.00080	CCB2
33	IPG026SQ	-.00008	.00790	-.00024	.00078	.00171	-.00001	.00024	-.00001	.06992	.00184	IPG026SQ
34	G077-01A	.54491	23.341	.61137	.00582	50.509	.84788	.50811	.46629	49.102	.51284	G077-01A
35	G077-01T	.03731	18.506	.11383	.00419	1.7470	.36321	-.00068	.02440	.96598	.00149	G077-01T
36	G077-01J	.00769	3.8393	.02324	.00123	.37158	.07472	-.00021	.00500	.18747	.00098	G077-01J
37	G077-01G	.08497	16.301	.17635	.00961	7.3479	.42983	.04909	.06357	6.4512	.04996	G077-01G
38	G077-01H	.09987	22.292	.22565	.01281	8.4346	.63615	.05096	.07233	7.1733	.05435	G077-01H
39	Blank	-.00013	.00116	.00005	-.00011	.00166	.00001	.00011	-.00010	-.01774	.00125	Blank
40	MRLG1503	.01013	.20860	.00993	.01029	.98119	.00964	.00992	.00978	.92205	.00907	MRLG1503
41	MRLG1504	.00989	.10702	.00286	.10064	.19213	.00457	.00948	.00973	.91879	.00948	MRLG1504
42	CCV3	2.4730	24.674	2.4011	.49300	57.486	2.3523	2.5071	2.4104	57.204	1.0154	CCV3
43	CCB3	.00000	.00247	-.00009	-.00030	.02099	.00004	.00043	-.00024	.04751	.00030	CCB3
44	G069-02W	.00085	.03764	.00143	.00571	46.780	.00749	.00025	.00231	2.5506	.00311	G069-02W
45	G069-03W	.00071	-.00145	.00094	.00516	41.090	.00015	-.00006	.00026	3.0836	.00236	G069-03W
46	G069-04W	.00089	.01702	.00050	.00310	29.707	.00084	.00025	.00181	11.158	.00236	G069-04W
47	G069-05W	.00067	.00465	.00057	.00063	22.423	.00188	-.00015	.00035	2.2682	-.00136	G069-05W
48	G069-06W	.00056	.34931	.00014	.00064	19.069	.12509	.00067	.00110	17.075	.00072	G069-06W
49	G069-07W	.00093	.01445	.00057	.00050	12.053	.00102	.00019	.00137	1.7526	.00052	G069-07W
50	G069-08W	.00065	.01549	.00047	.00090	10.415	.05702	.00409	.00041	5.0039	.00168	G069-08W
51	Blank	-.00001	-.00242	-.00006	-.00035	.00269	.00004	-.00007	-.00024	.03748	.00076	Blank
52	CCV4	2.4733	24.734	2.4017	.49412	57.412	2.3479	2.5070	2.4078	57.276	1.0140	CCV4
53	CCB4	.00009	.00223	.00010	-.00035	.00562	-.00002	.00059	-.00002	.07700	.00033	CCB4
54	IPG027SB	.00013	.00144	-.00035	-.00060	.00357	.00000	.00019	-.00010	.07359	.00040	IPG027SB

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
55	IPG027SL	.50950	5.2104	.49483	.00023*	48.955	.48733	.53617	.44615	48.170	.48195	IPG027SL
56	IPG027SC	.51538	5.2677	.50002	.00082*	49.467	.49161	.54191	.44974	48.358	.49487	IPG027SC
57	G491-01A	.56119	5.7836	.49910	.00073	47.790	.47967	.53516	.56669	46.877	.50132	G491-01A
58	G491-01	.04231	.62902	.00777	-.00052	.16339	.00268	.00557	.12475	.21361	.00387	G491-01
59	G491-01J	.00863	.12944	.00156	.00066	.03481	.00045	.00113	.02476	.04887	.00001	G491-01J
60	G077-24A	.59089	228.37	.72141	.08517	57.175	1.5206	.52423	.60842	56.802	.49526	G077-24A
61	G077-24	.07783	230.10	.24114	.08595	9.5973	1.0709	.00151	.17282	9.1983	.00625	G077-24
62	G077-24J	.01642	49.306	.05066	.01749	2.0177	.22351	.00011	.03512	1.8521	.00063	G077-24J
63	Blank	-.00011	.00493	-.00014	-.00012	.00482	-.00034	-.00006	-.00013	-.04917	-.00046	Blank
64	CCV5	2.4963	24.968	2.3879	.49367	57.104	2.3346	2.5168	2.4101	56.891	1.0085	CCV5
65	CCB5	.00010	.00257	-.00053	.00032	.01548	.00024	.00038	-.00020	.03440	-.00020	CCB5
66	G077-24M	.60586	271.79	.74562	.16208	61.507	2.0825	.51580	.65255	63.237	.49605	G077-24M
67	G077-24S	.60468	236.69	.71306	.16950	62.647	1.7587	.51338	.63943	64.231	.49828	G077-24S
68	G077-20	.96119	364.64	19.733	.10157	9.8483	.78024	.00153	.22016	11.000	.01688	G077-20
69	G077-21	1.6889	333.36	28.917	.06377	37.775	1.3818	-.00003	.31348	11.859	.02200	G077-21
70	G077-22	.20090	251.17	3.0749	.08192	9.9110	1.0336	.00256	.15275	10.327	.00757	G077-22
71	G077-23	.11195	392.34	.40448	.06745	8.1020	16.641	.00648	.23804	8.2431	.00422	G077-23
72	Blank	.00002	.04550	.00045	.00089	.01709	.00184	-.00004	-.00024	-.03839	-.00135	Blank
73	CCV6	2.5063	25.092	2.3917	.49289	57.277	2.3407	2.5214	2.4084	56.830	1.0263	CCV6
74	CCB6	.00022	.01460	.00011	.00026	.01662	.00009	.00043	-.00016	-.00031	.00075	CCB6

ID8G011 Section 2 of 3

ID8G011 Section 3 of 3

INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00015	.00218	-.00022	-.00002	.00002	.00003	-.00027	.00176	Blank
2	S20									S20
3	S21									S21
4	S22							.15156		S22
5	S23							1.5479		S23
6	S24		1.0502							S24
7	S25		6.1252							S25
8	S26									S26
9	S27									S27
10	S28				.00602					S28
11	S29				.05835					S29
12	S30	.04570		.12211		.02622	.01318		.67116	S30
13	S31	.22367		.59471		.12676	.06527		6.5546	S31
14	ICV	.50287	60.194	.48771	2.4194	.46439	.49606	1.4764	2.4875	ICV
15	ICB	-.00008	-.00596	.00007	-.00067	-.00020	.00003	-.00010	.00312	ICB
16	MRLG1501	.01008	1.0162	.01031	.00970	-.00036	.00979	.01011	.01895	MRLG1501
17	MRLG1502	.00959	.48257	.00993	.00951	.00898	.01003	.00960	.00862	MRLG1502
18	ICSA1	.00005	.04011	.00121	-.00417	.00054	-.00191	-.00057	.00278	ICSA1
19	ICSAB1	1.0557	78.179	.48017	.87963	.91224	.98096	.48187	.97044	ICSAB1
20	CCV1	.50030	60.947	.49211	2.4045	.48528	.49074	1.4662	2.5463	CCV1
21	CCB1	-.00011	-.00678	-.00001	.00027	-.00049	-.00017	.00008	.00080	CCB1
22	LOQV	.00986	.98756	.01031	.00991	.83170	.98914	.01005	.01850	LOQV
23	LOQV	.01004	1.0167	.01028	.00952	.24178	.09974	.01023	.02348	LOQV
24	IDL-01	-.00004	-.02895	.00008	-.00037	-.00011	.00003	-.00002	.00275	IDL-01
25	IDL-02	-.00003	-.02414	.00007	-.00079	-.00022	.00029	-.00003	.00277	IDL-02
26	IDL-03	-.00016	-.02953	.00006	-.00079	-.00021	.00047	-.00009	.00271	IDL-03
27	IDL-04	-.00018	-.03613	.00007	-.00087	-.00012	-.00011	-.00010	.00296	IDL-04
28	IDL-05	.00002	-.04479	.00007	-.00087	-.00006	-.00033	-.00008	-.00090	IDL-05
29	IDL-06	-.00005	-.04602	.00004	-.00029	-.00003	-.00004	.00000	-.00116	IDL-06
30	IDL-07	-.00011	-.03771	.00010	-.00050	.00016	.00002	-.00003	-.00109	IDL-07
31	CCV2	.49646	61.508	.49604	2.3670	.48319	.49602	1.4733	2.4978	CCV2
32	CCB2	.00005	-.01801	.00008	-.00055	-.00001	-.00028	.00001	.00040	CCB2
33	IPG026SQ	-.00015	-.01979	.00018	-.00112	.03549	-.00060	.00002	.00885	IPG026SQ
34	G077-01A	.49462	51.386	.49971	.50029	.47996	.61126	.53076	6.1928	G077-01A
35	G077-01T	-.00015	.00036	.01344	-.00068	.00522	.10871	.02159	5.6171	G077-01T
36	G077-01J	.00000	-.02984	.00273	-.00074	.00100	.02116	.00447	1.1559	G077-01J
37	G077-01G	.04963	5.2272	.06808	.05060	.05319	.20436	.08222	5.5402	G077-01G
38	G077-01H	.05178	5.4509	.07668	.05313	.05595	.25489	.09595	6.8243	G077-01H
39	Blank	-.00006	-.04005	.00008	-.00082	-.00022	-.00003	.00001	.00253	Blank
40	MRLG1503	.01005	.97365	.01014	.01023	-.00025	.01043	.01026	.01853	MRLG1503
41	MRLG1504	.00966	.46608	.00997	.00985	.00919	.00998	.00965	.00898	MRLG1504
42	CCV3	.49907	60.763	.49221	2.3872	.48367	.48890	1.4629	2.4903	CCV3
43	CCB3	-.00003	-.03129	.00007	-.00020	.00022	.00012	-.00018	.00040	CCB3
44	G069-02W	-.00017	89.941	.36805	-.00059	.00015	.00216	.02049	.00247	G069-02W
45	G069-03W	-.00005	78.735	.34239	.00033	.00035	-.00015	.02243	.00278	G069-03W
46	G069-04W	-.00019	105.70	.29268	-.00127	.00023	.00078	.02186	.00572	G069-04W
47	G069-05W	-.00023	31.700	.37104	-.00061	.00011	-.00012	.01242	.00366	G069-05W
48	G069-06W	-.00014	107.48	.13514	-.00074	-.00030	.00029	.00002	.00220	G069-06W
49	G069-07W	-.00007	23.379	.25285	-.00060	.00024	.00175	.00862	.00347	G069-07W
50	G069-08W	-.00015	83.460	.11893	-.00041	.00012	.00139	.02202	.00316	G069-08W
51	Blank	-.00011	.03405	.00017	-.00002	-.00007	.00009	-.00012	.00121	Blank
52	CCV4	.50076	60.808	.49279	2.4021	.48668	.48688	1.4651	2.4914	CCV4
53	CCB4	.00000	.00395	.00018	-.00058	-.00033	.00033	-.00003	.00359	CCB4
54	IPG027SB	-.00021	.00189	.00009	-.00147	.04216	-.00022	-.00013	.00305	IPG027SB

55	IPG027SL	.48111	51.724	.49520	.48254	.53172	.50483	.51832	.52287	IPG027SL
56	IPG027SC	.48660	51.914	.49686	.49235	.53314	.51082	.52417	.52805	IPG027SC
57	G491-01A	.47679	51.300	.48427	.48346	.52016	.53059	1.1508	.77794	G491-01A
58	G491-01	.00048	.99835	.00315	-.00181	.03977	.03418	.63681	.21293	G491-01
59	G491-01J	-.00001	.16816	.00067	-.00070	.00799	.00642	.12810	.04397	G491-01J
60	G077-24A	.48612	51.548	.58540	.46365	.51738	1.5723	.88361	24.792	G077-24A
61	G077-24	-.00021	.40574	.10161	-.00367	.04746	1.0869	.39242	24.925	G077-24
62	G077-24J	-.00014	.02817	.02077	-.00075	.00962	.22413	.08124	5.3070	G077-24J
63	Blank	.00004	-.05989	.00004	-.00009	-.00029	.00021	-.00004	.00161	Blank
64	CCV5	.50065	60.508	.49049	2.4031	.48729	.48578	1.4777	2.4853	CCV5
65	CCB5	.00000	-.04165	.00008	-.00071	-.00041	.00020	.00001	.00062	CCB5
66	G077-24M	.49284	51.861	.61907	.45920	.52470	2.2171	1.0194	26.617	G077-24M
67	G077-24S	.49401	52.140	.62491	.46334	.52417	2.3130	.97270	25.417	G077-24S
68	G077-20	.00114	.71676	.11284	-.00176	.05918	1.1459	.28613	87.554*	G077-20
69	G077-21	.00152	1.7196	.13938	-.00197	.06015	.65525	.24039	158.55*	G077-21
70	G077-22	-.00007	.45339	.10861	-.00458	.04817	1.2717	.43831	35.825	G077-22
71	G077-23	-.00084	.24106	.11814	-.00494	.04784	.96616	.58305	18.913	G077-23
72	Blank	-.00018	-.07288	.00014	-.00019	-.00013	-.00002	-.00015	.00685	Blank
73	CCV6	.50244	60.735	.49609	2.4394	.48611	.48865	1.4835	2.4932	CCV6
74	CCB6	-.00007	-.04507	.00005	.00042	-.00005	.00038	-.00002	.00336	CCB6
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8G011 Section 3 of 3

7083

CASE NARRATIVE

Client : CH2M HILL

Project : TAR CREEK OU4

SDG : 11G077

METHOD 3050B/6010B
LEAD BY TRACE ICP

A total of three (3) soil samples were received on 07/13/11 for Lead analysis, Method 3050B/6010B in accordance with USEPA SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Initial Calibration was established as prescribed by the method and was verified using a secondary source. Interference checks were performed and results were within required limits. Continuing calibration verifications and continuing calibration blanks were carried out at the frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for IPG028SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated for this SDG. Analytical spike and serial dilution were analyzed for matrix interference evaluation. Results were within method acceptance criteria.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Samples were oven-dried and passed through sieve #60 prior to digestion.

LAB CHRONICLE
LEAD BY TRACE ICP

Client : CH2M HILL
Project : TAR CREEK OU4

SDG NO. : 11G077
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPG028SB	1	NA	07/18/1118:17	07/15/1111:40	ID8G012056	ID8G012054	IPG028S	Method Blank
LCS1S	IPG028SL	1	NA	07/18/1118:20	07/15/1111:40	ID8G012057	ID8G012054	IPG028S	Lab Control Sample (LCS)
LCD1S	IPG028SC	1	NA	07/18/1118:23	07/15/1111:40	ID8G012058	ID8G012054	IPG028S	LCS Duplicate
PEOA0240AS	G089-11A	0.909	NA	07/18/1118:25	07/15/1111:40	ID8G012059	ID8G012054	IPG028S	Analytical Spike Sample
PEOA0240	G089-11	0.909	NA	07/18/1118:28	07/15/1111:40	ID8G012060	ID8G012054	IPG028S	Field Sample
PEOA0240DL	G089-11J	4.55	NA	07/18/1118:31	07/15/1111:40	ID8G012061	ID8G012054	IPG028S	Diluted Sample
CB134-03-01	G077-05	0.980	NA	07/18/1119:27	07/15/1111:40	ID8G012080	ID8G012078	IPG028S	Field Sample
CB156-12-01	G077-09	0.971	NA	07/18/1119:30	07/15/1111:40	ID8G012081	ID8G012078	IPG028S	Field Sample
CB223-13-02	G077-16	0.901	NA	07/18/1119:33	07/15/1111:40	ID8G012082	ID8G012078	IPG028S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	06/28/11 13:40
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 11:40
Sample ID:	CB134-03-01	Date Analyzed:	07/18/11 19:27
Lab Samp ID:	G077-05	Dilution Factor:	0.980
Lab File ID:	ID8G012080	Matrix :	SOIL
Ext Btch ID:	IPG028S	% Moisture :	NA
Calib. Ref.:	ID8G012078	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	123	0.980	0.294

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 15:45
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 11:40
Sample ID:	CB156-12-01	Date Analyzed:	07/18/11 19:30
Lab Samp ID:	G077-09	Dilution Factor:	0.971
Lab File ID:	ID8G012081	Matrix :	SOIL
Ext Btch ID:	IPG028S	% Moisture :	NA
Calib. Ref.:	ID8G012078	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	114	0.971	0.291

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	07/07/11 10:30
Project	: TAR CREEK OU4	Date Received:	07/13/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 11:40
Sample ID:	CB223-13-02	Date Analyzed:	07/18/11 19:33
Lab Samp ID:	G077-16	Dilution Factor:	0.901
Lab File ID:	ID8G012082	Matrix :	SOIL
Ext Btch ID:	IPG028S	% Moisture :	NA
Calib. Ref.:	ID8G012078	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	26.5	0.901	0.270

METHOD 3050B/6010B
LEAD BY TRACE ICP

Client	: CH2M HILL	Date Collected:	NA
Project	: TAR CREEK OU4	Date Received:	07/15/11
SDG NO.	: 11G077	Date Extracted:	07/15/11 11:40
Sample ID:	MBLK1S	Date Analyzed:	07/18/11 18:17
Lab Samp ID:	IPG028SB	Dilution Factor:	1
Lab File ID:	ID8G012056	Matrix :	SOIL
Ext Btch ID:	IPG028S	% Moisture :	NA
Calib. Ref.:	ID8G012054	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Lead	ND	1.00	0.300

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPG028SB	IPG028SL	IPG028SC		
LAB FILE ID:	ID8G012056	ID8G012057	ID8G012058		
DATIME EXTRCTD:	07/15/1111:40	07/15/1111:40	07/15/1111:40	DATE COLLECTED:	NA
DATIME ANALYZD:	07/18/1118:17	07/18/1118:20	07/18/1118:23	DATE RECEIVED:	07/15/11
PREP. BATCH:	IPG028S	IPG028S	IPG028S		
CALIB. REF:	ID8G012054	ID8G012054	ID8G012054		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Lead	ND	50	50	100	50	50.1	100	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
BATCH NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	0.909	4.55		
SAMPLE ID:	PEOA0240	PEOA0240DL		
EMAX SAMP ID:	G089-11	G089-11J		
LAB FILE ID:	ID8G012060	ID8G012061		
DATE EXTRACTED:	07/15/1111:40	07/15/1111:40	DATE COLLECTED:	07/13/11 09:45
DATE ANALYZED:	07/18/1118:28	07/18/1118:31	DATE RECEIVED:	07/14/11
PREP. BATCH:	IPG028S	IPG028S		
CALIB. REF:	ID8G012054	ID8G012054		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Lead	42.9	43.4	1	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: CH2M HILL
PROJECT: TAR CREEK OU4
SDG NO.: 11G077
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	NA
DILTN FACTR:	0.909	0.909		
SAMPLE ID:	PEOA0240			
CONTROL NO.:	G089-11	G089-11A		
LAB FILE ID:	ID8G012060	ID8G012059		
DATIME EXTRCTD:	07/15/1111:40	07/15/1111:40	DATE COLLECTED:	07/13/11 09:45
DATIME ANALYZD:	07/18/1118:28	07/18/1118:25	DATE RECEIVED:	07/14/11
PREP. BATCH:	IPG028S	IPG028S		
CALIB. REF:	ID8G012054	ID8G012054		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Lead	42.9	45.5	85.9	95	75-125

ICP QC CHECK TABLE

QC	ICV	CCV	ICSAB	ICSA	MLCV
Limit%	90-110	90-110	80-120	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg\L
Al	100	100	400	400	200
Sb	1.5	1.5	1	0	5
As	1	1	1	0	1
Ba	2	2	0.5	0	5
Be	1.5	1.5	0.5	0	5
B	2.5	2.5	0.5	0	5
Cd	2	2	1	0	5
Ca	75	75	500	500	250
Cr	2.5	2.5	0.5	0	5
Co	1	1	0.5	0	1
Cu	2.5	2.5	0.5	0	5
Fe	25	25	200	200	200
Pb	2.5	2.5	1	0	5
Li	0.5	0.5	1	0	0.5
Mg	60	60	200	200	100
Mn	2.5	2.5	0.5	0	5
Mo	2.5	2.5	1	0	5
Ni	2.5	2.5	1	0	5
K	60	60	75	0	250
Se	1	1	1	0	1
Ag	0.5	0.5	1	0	0.5
Na	60	60	75	0	150
Sr	0.5	0.5	0.5	0	0.5
Tl	2.5	2.5	1	0	5
Sn	0.5	0.5	1	0	0.5
Ti	0.5	0.5	1	0	0.5
V	1.5	1.5	0.5	0	5
Zn	2.5	2.5	1	0	5

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 7/18/11 15:29

End Date: 7/19/11 01:08

SOP #	Rev. #
☑ EMAX-6010	7
☐ EMAX-6010C	1
☐ EMAX-200.7	2
☐ EMAX-	

Comments: ICSA1 Pb 7100. IEC update for Pb
MRLG1801 Zn 7120% recovery @ 20ppb
MRLG1802 Zn 107% recovery @ 10ppb
CCV15 NO IS

Book #: AD8-020

Instrument No.: D8

Analytical Batch: 1D86012

Analytical Sequence: S-1166010(V23)

Method File: 1166010(V23)

Database: Emax14

	STANDARDS ID		STANDARDS ID
S0	SMIB14-6701	S30	SMIB14 6802
S1	NA	S31	6803
S2		ICV	6705
S3		CCV	6302
S4		ICSA	5001
S5		ICSAB	6704
S6		MLCV	NA
S7		LLCV	
S8		CRI/MRL	
S9		MRL1.3	SMIB14-6501
S10		MRL2.4	5302
S11			
S12			
S16			
S17			
S18			
S20	SMIB14-6301		
S21	6503		
S22	6504		
S23	6402		
S24	6702		
S25	6703		
S26	5901		
S27	5902		
S28	5701		
S29	5702		

Analyzed By: TH

Date: 7/19/11

SEQUENCE FILE : ID8G012

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8G012001	Blank	15:29	07/18/11	1.000
ID8G012002	S20	15:32	07/18/11	1.000
ID8G012003	S21	15:35	07/18/11	1.000
ID8G012004	S22	15:39	07/18/11	1.000
ID8G012005	S23	15:42	07/18/11	1.000
ID8G012006	S24	15:45	07/18/11	1.000
ID8G012007	S25	15:48	07/18/11	1.000
ID8G012008	S26	15:51	07/18/11	1.000
ID8G012009	S27	15:54	07/18/11	1.000
ID8G012010	S28	15:57	07/18/11	1.000
ID8G012011	S29	16:00	07/18/11	1.000
ID8G012012	S30	16:03	07/18/11	1.000
ID8G012013	S31	16:06	07/18/11	1.000
ID8G012014	ICV	16:09	07/18/11	1.000
ID8G012015	ICB	16:12	07/18/11	1.000
ID8G012016	ICSA1	16:15	07/18/11	1.000
ID8G012017	ICSAB1	16:19	07/18/11	1.000
ID8G012018	Blank	16:22	07/18/11	1.000
ID8G012019	MRLG1801	16:25	07/18/11	1.000
ID8G012020	MRLG1802	16:28	07/18/11	1.000
ID8G012021	CCV1	16:31	07/18/11	1.000
ID8G012022	CCB1	16:34	07/18/11	1.000
ID8G012023	IDL-01	16:37	07/18/11	1.000
ID8G012024	IDL-02	16:40	07/18/11	1.000
ID8G012025	IDL-03	16:43	07/18/11	1.000
ID8G012026	IDL-04	16:46	07/18/11	1.000
ID8G012027	IDL-05	16:49	07/18/11	1.000
ID8G012028	IDL-06	16:52	07/18/11	1.000
ID8G012029	IDL-07	16:55	07/18/11	1.000
ID8G012030	LOQV-01	16:58	07/18/11	1.000
ID8G012031	LOQV-01	17:01	07/18/11	1.000
ID8G012032	Blank	17:04	07/18/11	1.000
ID8G012033	CCV2	17:07	07/18/11	1.000
ID8G012034	CCB2	17:10	07/18/11	1.000
ID8G012035	LODV-01	17:13	07/18/11	1.000
ID8G012036	LODV-01	17:16	07/18/11	1.000
ID8G012037	G075-02T	17:19	07/18/11	5.000
ID8G012038	G077-20W	17:22	07/18/11	1.000
ID8G012039	G077-21W	17:26	07/18/11	1.000
ID8G012040	Blank	17:30	07/18/11	1.000
ID8G012041	MRLG1803	17:33	07/18/11	1.000
ID8G012042	MRLG1804	17:36	07/18/11	1.000
ID8G012043	CCV3	17:39	07/18/11	1.000
ID8G012044	CCB3	17:42	07/18/11	1.000
ID8G012045	IPG030SB	17:45	07/18/11	1.000
ID8G012046	IPG030SL	17:48	07/18/11	1.000
ID8G012047	IPG030SC	17:51	07/18/11	1.000
ID8G012048	G107-03A	17:53	07/18/11	1.000
ID8G012049	G107-03	17:56	07/18/11	1.000
ID8G012050	G107-03J	17:59	07/18/11	5.000
ID8G012051	G107-03M	18:02	07/18/11	1.000
ID8G012052	G107-03S	18:05	07/18/11	1.000
ID8G012053	Blank	18:08	07/18/11	1.000
ID8G012054	CCV4	18:11	07/18/11	1.000

ID8G012055	CCB4	18:14	07/18/11	1.000
ID8G012056	IPG028SB	18:17	07/18/11	1.000
ID8G012057	IPG028SL	18:20	07/18/11	1.000
ID8G012058	IPG028SC	18:23	07/18/11	1.000
ID8G012059	G089-11A	18:25	07/18/11	1.000
ID8G012060	G089-11	18:28	07/18/11	1.000
ID8G012061	G089-11J	18:31	07/18/11	5.000
ID8G012062	G089-11M	18:34	07/18/11	1.000
ID8G012063	G089-11S	18:37	07/18/11	1.000
ID8G012064	G089-01	18:40	07/18/11	1.000
ID8G012065	Blank	18:43	07/18/11	1.000
ID8G012066	CCV5	18:46	07/18/11	1.000
ID8G012067	CCB5	18:49	07/18/11	1.000
ID8G012068	G089-02	18:52	07/18/11	1.000
ID8G012069	G089-03	18:55	07/18/11	1.000
ID8G012070	G089-04	18:58	07/18/11	1.000
ID8G012071	G089-05	19:01	07/18/11	1.000
ID8G012072	G089-06	19:04	07/18/11	1.000
ID8G012073	G089-07	19:07	07/18/11	1.000
ID8G012074	G089-08	19:10	07/18/11	1.000
ID8G012075	G089-09	19:13	07/18/11	1.000
ID8G012076	G089-10	19:15	07/18/11	1.000
ID8G012077	Blank	19:18	07/18/11	1.000
ID8G012078	CCV6	19:21	07/18/11	1.000
ID8G012079	CCB6	19:24	07/18/11	1.000
ID8G012080	G077-05	19:27	07/18/11	1.000
ID8G012081	G077-09	19:30	07/18/11	1.000
ID8G012082	G077-16	19:33	07/18/11	1.000
ID8G012083	Blank	19:36	07/18/11	1.000
ID8G012084	CCV7	19:39	07/18/11	1.000
ID8G012085	CCB7	19:42	07/18/11	1.000
ID8G012086	IPG029SB	19:45	07/18/11	1.000
ID8G012087	IPG029SL	19:48	07/18/11	1.000
ID8G012088	IPG029SC	19:51	07/18/11	1.000
ID8G012089	G088-20A	19:54	07/18/11	1.000
ID8G012090	G088-20	19:57	07/18/11	1.000
ID8G012091	G088-20J	20:00	07/18/11	5.000
ID8G012092	G088-20M	20:03	07/18/11	1.000
ID8G012093	G088-20S	20:06	07/18/11	1.000
ID8G012094	G088-01	20:08	07/18/11	1.000
ID8G012095	Blank	20:11	07/18/11	1.000
ID8G012096	CCV8	20:14	07/18/11	1.000
ID8G012097	CCB8	20:17	07/18/11	1.000
ID8G012098	G088-02	20:20	07/18/11	1.000
ID8G012099	G088-03	20:23	07/18/11	1.000
ID8G012100	G088-04	20:26	07/18/11	1.000
ID8G012101	G088-05	20:29	07/18/11	1.000
ID8G012102	G088-06	20:32	07/18/11	1.000
ID8G012103	G088-07	20:35	07/18/11	1.000
ID8G012104	G088-08	20:38	07/18/11	1.000
ID8G012105	G088-09	20:41	07/18/11	1.000
ID8G012106	G088-10	20:44	07/18/11	1.000
ID8G012107	Blank	20:47	07/18/11	1.000
ID8G012108	CCV9	20:50	07/18/11	1.000
ID8G012109	CCB9	20:53	07/18/11	1.000
ID8G012110	G088-11	20:56	07/18/11	1.000
ID8G012111	G088-12	20:59	07/18/11	1.000

ID8G012112	G088-13	21:02	07/18/11	1.000
ID8G012113	G088-14	21:05	07/18/11	1.000
ID8G012114	G088-15	21:08	07/18/11	1.000
ID8G012115	G088-16	21:11	07/18/11	1.000
ID8G012116	G088-17	21:14	07/18/11	1.000
ID8G012117	G088-18	21:17	07/18/11	1.000
ID8G012118	G088-19	21:20	07/18/11	1.000
ID8G012119	Blank	21:23	07/18/11	1.000
ID8G012120	CCV10	21:26	07/18/11	1.000
ID8G012121	CCB10	21:29	07/18/11	1.000
ID8G012122	Al 400	21:32	07/18/11	1.000
ID8G012123	Blank	21:35	07/18/11	1.000
ID8G012124	Sb 20	21:38	07/18/11	1.000
ID8G012125	Blank	21:41	07/18/11	1.000
ID8G012126	As 25	21:44	07/18/11	1.000
ID8G012127	Blank	21:47	07/18/11	1.000
ID8G012128	Ba 50	21:50	07/18/11	1.000
ID8G012129	Blank	21:54	07/18/11	1.000
ID8G012130	Be 20	21:57	07/18/11	1.000
ID8G012131	Blank	22:00	07/18/11	1.000
ID8G012132	CCV11	22:03	07/18/11	1.000
ID8G012133	CCB11	22:06	07/18/11	1.000
ID8G012134	B 20	22:09	07/18/11	1.000
ID8G012135	Blank	22:12	07/18/11	1.000
ID8G012136	Cd 20	22:15	07/18/11	1.000
ID8G012137	Blank	22:18	07/18/11	1.000
ID8G012138	Ca 1000	22:22	07/18/11	1.000
ID8G012139	Blank	22:25	07/18/11	1.000
ID8G012140	Cr 20	22:28	07/18/11	1.000
ID8G012141	Blank	22:31	07/18/11	1.000
ID8G012142	Co 50	22:34	07/18/11	1.000
ID8G012143	Blank	22:37	07/18/11	1.000
ID8G012144	CCV12	22:40	07/18/11	1.000
ID8G012145	CCB12	22:43	07/18/11	1.000
ID8G012146	Cu 25	22:46	07/18/11	1.000
ID8G012147	Blank	22:50	07/18/11	1.000
ID8G012148	Fe 500	22:53	07/18/11	1.000
ID8G012149	Blank	22:56	07/18/11	1.000
ID8G012150	Pb 100	22:59	07/18/11	1.000
ID8G012151	Blank	23:02	07/18/11	1.000
ID8G012152	Li 50	23:05	07/18/11	1.000
ID8G012153	Blank	23:08	07/18/11	1.000
ID8G012154	Mg 1000	23:11	07/18/11	1.000
ID8G012155	Blank	23:14	07/18/11	1.000
ID8G012156	CCV13	23:18	07/18/11	1.000
ID8G012157	CCB13	23:20	07/18/11	1.000
ID8G012158	Mn 50	23:23	07/18/11	1.000
ID8G012159	Blank	23:27	07/18/11	1.000
ID8G012160	Mo 15	23:30	07/18/11	1.000
ID8G012161	Blank	23:33	07/18/11	1.000
ID8G012162	K 750	23:36	07/18/11	1.000
ID8G012163	Blank	23:39	07/18/11	1.000
ID8G012164	Ni 50	23:42	07/18/11	1.000
ID8G012165	Blank	23:45	07/18/11	1.000
ID8G012166	Se 20	23:48	07/18/11	1.000
ID8G012167	Blank	23:51	07/18/11	1.000
ID8G012168	CCV14	23:54	07/18/11	1.000

ID8G012169	CCB14	23:57	07/18/11	1.000
ID8G012170	Ag 5	00:00	07/19/11	1.000
ID8G012171	Blank	00:03	07/19/11	1.000
ID8G012172	Na 750	00:07	07/19/11	1.000
ID8G012173	Blank	00:10	07/19/11	1.000
ID8G012174	Sn 25	00:13	07/19/11	1.000
ID8G012175	Blank	00:16	07/19/11	1.000
ID8G012176	Sr 25	00:19	07/19/11	1.000
ID8G012177	Blank	00:22	07/19/11	1.000
ID8G012178	Tl 50	00:25	07/19/11	1.000
ID8G012179	Blank	00:28	07/19/11	1.000
ID8G012180	CCV15	00:31	07/19/11	1.000
ID8G012181	CCB15	00:34	07/19/11	1.000
ID8G012182	Ti 25	00:38	07/19/11	1.000
ID8G012183	Blank	00:41	07/19/11	1.000
ID8G012184	V 10	00:44	07/19/11	1.000
ID8G012185	Blank	00:47	07/19/11	1.000
ID8G012186	Zn 40	00:50	07/19/11	1.000
ID8G012187	Blank	00:53	07/19/11	1.000
ID8G012188	CCV16	00:56	07/19/11	1.000
ID8G012189	CCB16	00:59	07/19/11	1.000
ID8G012190	TEST1	01:02	07/19/11	1.000
ID8G012191	TEST2	01:05	07/19/11	1.000
ID8G012192	TEST3	01:08	07/19/11	1.000

VERSON : 11A UNIT : % SUMMARY of ICV and CCV : ID8G012 DATE : 07/18/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	105	100	106	97	100	98	101	98	96	94	99	99	96	99	97	94	98	96	96	106	101	101	98	96	93	101	99	101
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	97	----	----	----	----	----	----	96	----	----	----	94	----	----	98	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAB1	96	102	107	100	100	101	96	94	93	93	102	95	94	104	98	95	100	95	102	107	107	107	99	88	91	103	97	101
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1801	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1802	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	105	102	107	102	102	101	102	101	98	97	99	99	97	103	100	98	102	98	101	108	103	106	103	97	98	104	98	104
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	107	102	107	103	101	100	101	100	97	97	101	100	97	103	99	97	102	99	99	107	102	105	102	96	99	104	99	103
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G075-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-20W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-21W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	106	101	105	102	100	99	101	101	97	97	100	100	97	103	98	97	102	99	99	105	102	105	102	95	99	102	99	103
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG030SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG030SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG030SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	108	103	106	103	100	100	102	100	97	97	101	100	97	103	98	97	103	99	99	107	103	106	102	98	99	102	99	103

7999

CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	106	102	106	104	100	99	101	100	97	97	100	100	97	103	98	97	102	99	99	107	102	105	103	96	99	102	99	104
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	107	102	107	105	101	100	102	100	97	97	100	100	98	103	100	98	102	99	100	108	103	107	105	97	98	103	99	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	104	101	106	105	99	99	101	100	97	97	99	100	98	103	98	97	102	99	99	107	102	106	104	96	99	101	99	104
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	104	100	105	105	99	99	100	100	96	95	97	97	96	103	99	97	101	97	99	106	101	107	104	95	96	101	97	104
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	105	101	105	106	100	99	101	98	96	96	98	98	96	104	99	98	101	97	99	106	101	108	105	96	97	102	98	102
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

G088-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	106	100	107	109	101	100	100	99	96	95	99	98	96	104	101	99	101	97	100	108	101	110	106	96	96	104	98	102
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AL 400	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SB 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AS 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BA 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BE 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	108	101	107	109	102	100	101	99	97	95	99	98	96	105	102	100	102	97	101	107	102	111*	106	97	96	104	97	102
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CA 1000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CR 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CO 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	106	99	107	110	102	100	100	99	96	95	99	98	96	106	102	100	102	97	101	108	102	111*	107	96	96	105	98	102
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CU 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE 500	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
PB 100	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LI 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MG 1000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	107	98	106	111*	103	101	99	99	96	95	99	97	96	108	104	101	102	97	103	106	102	114*	108	96	95	105	97	102
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MO 15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K 750	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NI 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SE 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	107	101	108	111*	103	100	101	99	96	95	99	98	96	107	103	101	102	97	102	109	102	113*	108	98	96	105	97	102

CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AG 5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NA 750	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SN 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SR 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TL 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	117*	5*	-24*	112*	103	104	-1*	99	100	182*	101	100	-58*	108	103	101	-114*	72*	104	19*	99	114*	109	-5*	91	105	88*	-53*
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TI 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V 10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ZN 40	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	106	99	106	111*	102	100	100	98	96	94	98	97	96	106	102	100	101	96	102	108	102	113*	108	96	94	104	96	102
CCB16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TEST1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TEST2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TEST3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

VERSON : 11A UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8G012 (SOIL) DATE : 07/18/11 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	2.60	1.79	.700	1.18	.180	3.26	.040	7.56	.190	-.060	.120	1.48	-.080	.720	14.7	.500	.670	.090	100	1.23	.130	3.77	.160	.290	-.500	.010	.020	.010
ICSA1	----	-2.05	-1.53	1.74	.060	9.05	.720	----	.570	-.220	1.23	----	1.11	5.18	----	2.05	-1.19	.960	169	1.28	.200	46.5	1.19	-2.56	.500	-1.88	-.340	4.32
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1801	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1802	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	10.9	1.70	.340	.830	.250	3.72	.150	138	.200	-.150	.390	2.20	-.250	.720	14.2	.600	.770	.300	94.9	-.460	.190	7.47	.050	.310	-.280	.050	-.060	4.81
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LOQV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	7.40	1.54	1.01	.360	.240	2.68	.050	42.3	.150	-.180	.240	3.57	-.440	.400	7.50	.440	.610	.000	72.8	.180	.050	-4.03	.080	-.760	-.240	.060	.080	1.32
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LODV-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G075-02T	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-20W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-21W	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1803	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLG1804	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	7.79	2.04	1.29	.220	.170	2.23	.070	47.6	.120	-.040	.160	4.15	-.220	1.12	-4.77	.370	.690	.000	4.93	2.73	-.040	31.9	.090	-.220	-.270	.870	-.020	2.52
IPG030SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG030SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG030SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G107-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

7103

CCB4	12.5	1.75	1.47	.330	.260	2.39	.080	34.2	.070	-.080	.540	4.39	-.690	1.07	12.4	.700	.710	.100	110	.430	.120	8.80	.040	-.420	-.320	-.110	.130	1.22
IPG028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	5.66	2.62	-.890	.520	.230	2.15	.120	46.4	.260	-.130	.140	3.11	-.050	1.52	17.2	.630	.810	.040	77.8	-.650	.030	-1.76	-.020	-.400	-.720	.210	.010	1.50
G089-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G089-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	5.62	1.69	-.560	.380	.250	2.10	.120	59.4	.170	-.030	.340	4.38	-.530	.050	14.6	.650	.790	.170	36.7	.530	.080	.250	.030	.010	-.620	.390	.120	1.90
G077-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G077-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	5.05	1.76	-.500	.230	.210	2.23	.110	44.4	-.090	-.050	.210	4.94	-.440	1.31	19.0	.360	.630	.090	38.0	-.110	.040	-.760	.100	.060	-.480	.630	-.020	1.65
IPG029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPG029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-20S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	7.26	1.75	.280	1.13	.290	2.54	.110	142	.040	-.120	.340	6.11	-.780	-.390	15.7	.770	.680	.140	66.8	.230	.120	-2.73	.200	.390	-.530	.900	-.030	5.56
G088-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	5.65	2.29	.870	.870	.260	1.64	.120	97.1	.140	-.040	.280	3.18	-.430	1.39	7.45	.520	.640	.110	63.1	1.85	.120	-13.2	.090	.040	-.440	.240	.210	3.98
G088-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

G088-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G088-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	1.60	1.45	.620	.720	.270	2.12	.070	111	.110	-.180	.270	1.43	-.440	.570	5.65	.800	.790	.140	92.1	1.99	-.120	8.78	.190	-.540	-.720	.610	.030	4.09
AL 400	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SB 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AS 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BA 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BE 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	5.00	3.71	.300	1.09	.600	1.56	.130	107	.200	-.060	.410	3.41	-.650	.150	2.94	.820	.680	.300	54.2	2.34	.000	8.72	.180	.190	-.150	1.27	.080	3.98
B 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CA 1000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CR 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CO 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-2.24	2.08	-.650	.840	.250	5.02	.020	81.6	-.070	.000	.360	1.11	-1.14	1.13	16.9	.550	.570	.070	67.0	.600	.050	8.85	.120	-.300	-.410	.210	-.010	3.20
CU 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE 500	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
PB 100	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
LI 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MG 1000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	4.92	2.38	.020	.890	.290	3.40	.050	99.1	.080	-.070	.440	.570	-.610	.990	17.5	.700	.790	.230	23.3	.280	-.120	19.2	.020	.050	-.530	.320	-.110	3.76
MN 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MO 15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K 750	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NI 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SE 20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCB14	.080	1.55	-.010	.730	.250	3.09	.050	118	-.060	-.250	.380	1.41	-.890	1.45	29.1	.350	.610	.190	120	.560	.040	10.00	.130	-.460	-.290	.560	-.080	4.58
AG 5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NA 750	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SN 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SR 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TL 50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	-10.4	1.18	.540	.000	.020	.670	.020	4.97	-.110	-.190	.430	1.95	-.780	1.44	-.780	-.010	.310	.010	4.67	.240	-.030	-11.3	.010	-.280	-.240	.620	-.110	.270
TI 25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V 10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ZN 40	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB16	-8.09	1.41	-.330	.090	.150	2.66	.080	1.63	-.050	-.080	.220	-1.35	-.040	1.71	12.1	.330	.610	.080	41.6	.750	.050	-12.2	.200	.340	-.470	.200	.030	-.230
TEST1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TEST2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TEST3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	0	0	0	Unk	S0		ID8G012001			1	☒	unk	---
2	0	0	0	0	Unk	S20		ID8G012002			1	☒	unk	---
3	0	0	0	0	Unk	S21		ID8G012003			1	☒	unk	---
4	0	0	0	0	Unk	S22		ID8G012004			1	☒	unk	---
5	0	0	0	0	Unk	S23		ID8G012005			1	☒	unk	---
6	0	0	0	0	Unk	S24		ID8G012006			1	☒	unk	---
7	0	0	0	0	Unk	S25		ID8G012007			1	☒	unk	---
8	0	0	0	0	Unk	S26		ID8G012008			1	☒	unk	---
9	0	0	0	0	Unk	S27		ID8G012009			1	☒	unk	---
10	0	0	0	0	Unk	S28		ID8G012010			1	☒	unk	---
11	0	0	0	0	Unk	S29		ID8G012011			1	☒	unk	---
12	0	0	0	0	Unk	S30		ID8G012012			1	☒	unk	---
13	0	0	0	0	Unk	S31		ID8G012013			1	☒	unk	---
14	1	2	1	1	QC	ICV		ID8G012014			1	☒	CCV	None
15	2	2	2	1	QC	ICB		ID8G012015			1	☒	3XIDL	None
16	5	2	5	1	QC	ICSA1		ID8G012016			1	☒	ICSA	None
17	6	2	6	1	QC	ICSAB1		ID8G012017			1	☒	ICSAB	None
18	97	3	1	4	Blank	Blank		ID8G012018			1	☐		---
19	3	2	3	1	QC	MRLG1801		ID8G012019			1	☒	MRL-EMAX	None
20	4	2	4	1	QC	MRLG1802		ID8G012020			1	☒	MRL-AFCEE	None
21	7	2	7	1	QC	CCV1		ID8G012021			1	☒	CCV	None
22	8	2	8	1	QC	CCB1		ID8G012022			1	☒	3XIDL	None
23	9	2	9	1	Unk	IDL-01		ID8G012023			1	☒	unk	---
24	10	2	10	1	Unk	IDL-02		ID8G012024			1	☒	unk	---
25	11	2	11	1	Unk	IDL-03		ID8G012025			1	☒	unk	---
26	12	2	12	1	Unk	IDL-04		ID8G012026			1	☒	unk	---
27	13	2	1	2	Unk	IDL-05		ID8G012027			1	☒	unk	---
28	14	2	2	2	Unk	IDL-06		ID8G012028			1	☒	unk	---
29	15	2	3	2	Unk	IDL-07		ID8G012029			1	☒	unk	---
30	16	2	4	2	Unk	LOQV-01	3010	ID8G012030			1	☒	unk	---
31	17	2	5	2	Unk	LOQV-01	3050	ID8G012031			1	☒	unk	---
32	18	2	6	2	Blank	Blank		ID8G012032			1	☐		---
33	19	2	7	2	QC	CCV2		ID8G012033			1	☒	CCV	None
34	20	2	8	2	QC	CCB2		ID8G012034			1	☒	LOD	None
35	21	2	9	2	Unk	LODV-01	3010	ID8G012035			1	☒	unk	---
36	22	2	10	2	Unk	LODV-01	3050	ID8G012036			1	☒	unk	---
37	23	2	11	2	Unk	G075-02T	5X	ID8G012037			1	☒	unk	---
38	24	2	12	2	Unk	G077-20W	confirmation	ID8G012038			1	☒	unk	---
39	25	2	1	3	Unk	G077-21W	confirmation	ID8G012039			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
40	26	2	2	3	Blank	Blank		ID8G012040			1	☐		---
41	27	2	3	3	QC	MRLG1803		ID8G012041			1	☒	MRL-EMAX	None
42	28	2	4	3	QC	MRLG1804		ID8G012042			1	☒	MRL-AFCEE	None
43	29	2	5	3	QC	CCV3		ID8G012043			1	☒	CCV	None
44	30	2	6	3	QC	CCB3		ID8G012044			1	☒	LOD	None
45	166	4	10	4	QC	IPG030SB		ID8G012045			1	☒	1/2LOQ	None
46	167	4	11	4	QC	IPG030SL		ID8G012046			1	☒	LCS	None
47	168	4	12	4	QC	IPG030SC		ID8G012047			1	☒	LCS	None
48	169	4	1	5	Unk	G107-03A		ID8G012048			1	☒	unk	---
49	170	4	2	5	Unk	G107-03		ID8G012049			1	☒	unk	---
50	171	4	3	5	Unk	G107-03J		ID8G012050			1	☒	unk	---
51	172	4	4	5	Unk	G107-03M		ID8G012051			1	☒	unk	---
52	173	4	5	5	Unk	G107-03S		ID8G012052			1	☒	unk	---
53	174	4	6	5	Blank	Blank		ID8G012053			1	☐		---
54	175	4	7	5	QC	CCV4		ID8G012054			1	☒	CCV	None
55	176	4	8	5	QC	CCB4		ID8G012055			1	☒	3XIDL	None
56	31	2	7	3	QC	IPG028SB		ID8G012056			1	☒	1/2LOQ	None
57	32	2	8	3	QC	IPG028SL		ID8G012057			1	☒	LCS	None
58	33	2	9	3	QC	IPG028SC		ID8G012058			1	☒	LCS	None
59	34	2	10	3	Unk	G089-11A	dried & sieved	ID8G012059			1	☒	unk	---
60	35	2	11	3	Unk	G089-11	dried & sieved	ID8G012060			1	☒	unk	---
61	36	2	12	3	Unk	G089-11J	dried & sieved	ID8G012061			1	☒	unk	---
62	37	2	1	4	Unk	G089-11M	dried & sieved	ID8G012062			1	☒	unk	---
63	38	2	2	4	Unk	G089-11S	dried & sieved	ID8G012063			1	☒	unk	---
64	39	2	3	4	Unk	G089-01	dried & sieved	ID8G012064			1	☒	unk	---
65	40	2	4	4	Blank	Blank		ID8G012065			1	☐		---
66	41	2	5	4	QC	CCV5		ID8G012066			1	☒	CCV	None
67	42	2	6	4	QC	CCB5		ID8G012067			1	☒	LOD	None
68	43	2	7	4	Unk	G089-02	dried & sieved	ID8G012068			1	☒	unk	---
69	44	2	8	4	Unk	G089-03	dried & sieved	ID8G012069			1	☒	unk	---
70	45	2	9	4	Unk	G089-04	dried & sieved	ID8G012070			1	☒	unk	---
71	46	2	10	4	Unk	G089-05	dried & sieved	ID8G012071			1	☒	unk	---
72	47	2	11	4	Unk	G089-06	dried & sieved	ID8G012072			1	☒	unk	---
73	48	2	12	4	Unk	G089-07	dried & sieved	ID8G012073			1	☒	unk	---
74	49	2	1	5	Unk	G089-08	dried & sieved	ID8G012074			1	☒	unk	---
75	50	2	2	5	Unk	G089-09	dried & sieved	ID8G012075			1	☒	unk	---
76	51	2	3	5	Unk	G089-10	dried & sieved	ID8G012076			1	☒	unk	---
77	52	2	4	5	Blank	Blank		ID8G012077			1	☐		---
78	53	2	5	5	QC	CCV6		ID8G012078			1	☒	CCV	None

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
79	54	2	6	5	QC	CCB6		ID8G012079			1	☒	3XIDL	None
80	55	2	7	5	Unk	G077-05	dried & sieved	ID8G012080			1	☒	unk	---
81	56	2	8	5	Unk	G077-09	dried & sieved	ID8G012081			1	☒	unk	---
82	57	2	9	5	Unk	G077-16	dried & sieved	ID8G012082			1	☒	unk	---
83	58	2	10	5	Blank	Blank		ID8G012083			1	☐		---
84	59	2	11	5	QC	CCV7		ID8G012084			1	☒	CCV	None
85	60	2	12	5	QC	CCB7		ID8G012085			1	☒	3XIDL	None
86	61	3	1	1	QC	IPG029SB		ID8G012086			1	☒	1/2LOQ	None
87	62	3	2	1	QC	IPG029SL		ID8G012087			1	☒	LCS	None
88	63	3	3	1	QC	IPG029SC		ID8G012088			1	☒	LCS	None
89	64	3	4	1	Unk	G088-20A	dried & sieved	ID8G012089			1	☒	unk	---
90	65	3	5	1	Unk	G088-20	dried & sieved	ID8G012090			1	☒	unk	---
91	66	3	6	1	Unk	G088-20J	dried & sieved	ID8G012091			1	☒	unk	---
92	67	3	7	1	Unk	G088-20M	dried & sieved	ID8G012092			1	☒	unk	---
93	68	3	8	1	Unk	G088-20S	dried & sieved	ID8G012093			1	☒	unk	---
94	69	3	9	1	Unk	G088-01	dried & sieved	ID8G012094			1	☒	unk	---
95	70	3	10	1	Blank	Blank		ID8G012095			1	☐		---
96	71	3	11	1	QC	CCV8		ID8G012096			1	☒	CCV	None
97	72	3	12	1	QC	CCB8		ID8G012097			1	☒	3XIDL	None
98	73	3	1	2	Unk	G088-02	dried & sieved	ID8G012098			1	☒	unk	---
99	74	3	2	2	Unk	G088-03	dried & sieved	ID8G012099			1	☒	unk	---
100	75	3	3	2	Unk	G088-04	dried & sieved	ID8G012100			1	☒	unk	---
101	76	3	4	2	Unk	G088-05	dried & sieved	ID8G012101			1	☒	unk	---
102	77	3	5	2	Unk	G088-06	dried & sieved	ID8G012102			1	☒	unk	---
103	78	3	6	2	Unk	G088-07	dried & sieved	ID8G012103			1	☒	unk	---
104	79	3	7	2	Unk	G088-08	dried & sieved	ID8G012104			1	☒	unk	---
105	80	3	8	2	Unk	G088-09	dried & sieved	ID8G012105			1	☒	unk	---
106	81	3	9	2	Unk	G088-10	dried & sieved	ID8G012106			1	☒	unk	---
107	82	3	10	2	Blank	Blank		ID8G012107			1	☐		---
108	83	3	11	2	QC	CCV9		ID8G012108			1	☒	CCV	None
109	84	3	12	2	QC	CCB9		ID8G012109			1	☒	3XIDL	None
110	85	3	1	3	Unk	G088-11	dried & sieved	ID8G012110			1	☒	unk	---
111	86	3	2	3	Unk	G088-12	dried & sieved	ID8G012111			1	☒	unk	---
112	87	3	3	3	Unk	G088-13	dried & sieved	ID8G012112			1	☒	unk	---
113	88	3	4	3	Unk	G088-14	dried & sieved	ID8G012113			1	☒	unk	---
114	89	3	5	3	Unk	G088-15	dried & sieved	ID8G012114			1	☒	unk	---
115	90	3	6	3	Unk	G088-16	dried & sieved	ID8G012115			1	☒	unk	---
116	91	3	7	3	Unk	G088-17	dried & sieved	ID8G012116			1	☒	unk	---
117	92	3	8	3	Unk	G088-18	dried & sieved	ID8G012117			1	☒	unk	---

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	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
118	93	3	9	3	Unk	G088-19	dried & sieved	ID8G012118			1	☒	unk	---
119	94	3	10	3	Blank	Blank		ID8G012119			1	☐		---
120	95	3	11	3	QC	CCV10		ID8G012120			1	☒	CCV	None
121	96	3	12	3	QC	CCB10		ID8G012121			1	☒	3XIDL	None
122	98	3	2	4	Unk	Al 400		ID8G012122			1	☒	unk	---
123	126	4	6	1	Blank	Blank		ID8G012123			1	☐		---
124	99	3	3	4	Unk	Sb 20		ID8G012124			1	☒	unk	---
125	127	4	7	1	Blank	Blank		ID8G012125			1	☐		---
126	100	3	4	4	Unk	As 25		ID8G012126			1	☒	unk	---
127	128	4	8	1	Blank	Blank		ID8G012127			1	☐		---
128	101	3	5	4	Unk	Ba 50		ID8G012128			1	☒	unk	---
129	129	4	9	1	Blank	Blank		ID8G012129			1	☐		---
130	102	3	6	4	Unk	Be 20		ID8G012130			1	☒	unk	---
131	130	4	10	1	Blank	Blank		ID8G012131			1	☐		---
132	153	4	9	3	QC	CCV11		ID8G012132			1	☒	CCV	None
133	154	4	10	3	QC	CCB11		ID8G012133			1	☒	3XIDL	None
134	103	3	7	4	Unk	B 20		ID8G012134			1	☒	unk	---
135	131	4	11	1	Blank	Blank		ID8G012135			1	☐		---
136	104	3	8	4	Unk	Cd 20		ID8G012136			1	☒	unk	---
137	132	4	12	1	Blank	Blank		ID8G012137			1	☐		---
138	105	3	9	4	Unk	Ca 1000		ID8G012138			1	☒	unk	---
139	133	4	1	2	Blank	Blank		ID8G012139			1	☐		---
140	106	3	10	4	Unk	Cr 20		ID8G012140			1	☒	unk	---
141	134	4	2	2	Blank	Blank		ID8G012141			1	☐		---
142	107	3	11	4	Unk	Co 50		ID8G012142			1	☒	unk	---
143	135	4	3	2	Blank	Blank		ID8G012143			1	☐		---
144	155	4	11	3	QC	CCV12		ID8G012144			1	☒	CCV	None
145	156	4	12	3	QC	CCB12		ID8G012145			1	☒	3XIDL	None
146	108	3	12	4	Unk	Cu 25		ID8G012146			1	☒	unk	---
147	136	4	4	2	Blank	Blank		ID8G012147			1	☐		---
148	109	3	1	5	Unk	Fe 500		ID8G012148			1	☒	unk	---
149	137	4	5	2	Blank	Blank		ID8G012149			1	☐		---
150	110	3	2	5	Unk	Pb 100		ID8G012150			1	☒	unk	---
151	138	4	6	2	Blank	Blank		ID8G012151			1	☐		---
152	111	3	3	5	Unk	Li 50		ID8G012152			1	☒	unk	---
153	139	4	7	2	Blank	Blank		ID8G012153			1	☐		---
154	112	3	4	5	Unk	Mg 1000		ID8G012154			1	☒	unk	---
155	140	4	8	2	Blank	Blank		ID8G012155			1	☐		---
156	157	4	1	4	QC	CCV13		ID8G012156			1	☒	CCV	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Data File	Type	Diln Factor	CorrFact	Check	Check Table	Fail Action
157	158	4	2	4	QC	CCB13		ID8G012157			1	☒	3XIDL	None
158	113	3	5	5	Unk	Mn 50		ID8G012158			1	☒	unk	---
159	141	4	9	2	Blank	Blank		ID8G012159			1	☐		---
160	114	3	6	5	Unk	Mo 15		ID8G012160			1	☒	unk	---
161	142	4	10	2	Blank	Blank		ID8G012161			1	☐		---
162	115	3	7	5	Unk	K 750		ID8G012162			1	☒	unk	---
163	143	4	11	2	Blank	Blank		ID8G012163			1	☐		---
164	116	3	8	5	Unk	Ni 50		ID8G012164			1	☒	unk	---
165	144	4	12	2	Blank	Blank		ID8G012165			1	☐		---
166	117	3	9	5	Unk	Se 20		ID8G012166			1	☒	unk	---
167	145	4	1	3	Blank	Blank		ID8G012167			1	☐		---
168	159	4	3	4	QC	CCV14		ID8G012168			1	☒	CCV	None
169	160	4	4	4	QC	CCB14		ID8G012169			1	☒	3XIDL	None
170	118	3	10	5	Unk	Ag 5		ID8G012170			1	☒	unk	---
171	146	4	2	3	Blank	Blank		ID8G012171			1	☐		---
172	119	3	11	5	Unk	Na 750		ID8G012172			1	☒	unk	---
173	147	4	3	3	Blank	Blank		ID8G012173			1	☐		---
174	120	3	12	5	Unk	Sn 25		ID8G012174			1	☒	unk	---
175	148	4	4	3	Blank	Blank		ID8G012175			1	☐		---
176	121	4	1	1	Unk	Sr 25		ID8G012176			1	☒	unk	---
177	149	4	5	3	Blank	Blank		ID8G012177			1	☐		---
178	122	4	2	1	Unk	Tl 50		ID8G012178			1	☒	unk	---
179	150	4	6	3	Blank	Blank		ID8G012179			1	☐		---
180	161	4	5	4	QC	CCV15		ID8G012180			1	☒	CCV	None
181	162	4	6	4	QC	CCB15		ID8G012181			1	☒	3XIDL	None
182	123	4	3	1	Unk	Ti 25		ID8G012182			1	☒	unk	---
183	151	4	7	3	Blank	Blank		ID8G012183			1	☐		---
184	124	4	4	1	Unk	V 10		ID8G012184			1	☒	unk	---
185	152	4	8	3	Blank	Blank		ID8G012185			1	☐		---
186	125	4	5	1	Unk	Zn 40		ID8G012186			1	☒	unk	---
187	163	4	7	4	Blank	Blank		ID8G012187			1	☐		---
188	164	4	8	4	QC	CCV16		ID8G012188			1	☒	CCV	None
189	165	4	9	4	QC	CCB16		ID8G012189			1	☒	3XIDL	None
190	177	4	9	5	Unk	TEST1		ID8G012190			1	☒	unk	---
191	178	4	10	5	Unk	TEST2		ID8G012191			1	☒	unk	---
192	179	4	11	5	Unk	TEST3		ID8G012192			1	☒	unk	---

ID8G012 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00196	.00001	-.00001	.00049	.00011	.00028	-.00005	.00049	-.00001	-.00093	Blank
2	S20					.84546		.13515				S20
3	S21					8.4120		1.3104				S21
4	S22				.37675						.16062	S22
5	S23				3.7905						1.6173	S23
6	S24						.10002					S24
7	S25						1.0190					S25
8	S26	.25140							1.0199	.15512		S26
9	S27	8.5793							9.4339	1.4949		S27
10	S28		.00519									S28
11	S29		.05389									S29
12	S30			.00128								S30
13	S31			.00513								S31
14	ICV	105.14	1.4967	1.0583	1.9495	1.5062	2.4376	2.0231	73.646	2.4010	.94009	ICV
15	ICB	.00260	.00179	.00070	.00118	.00018	.00326	.00004	.00756	.00019	-.00006	ICB
16	ICSA1	389.41	-.00205	-.00153	.00174	.00006	.00905	.00072	477.59	.00057	-.00022	ICSA1
17	ICSAB1	385.65	1.0174	1.0721	.50191	.50209	.50711	.95807	469.57	.46496	.46477	ICSAB1
18	Blank	.02505	.00024	-.00011	.00012	.00007	.00158	.00000	.11068	-.00013	-.00006	Blank
19	MRLG1801	.21917	.09779	.00998	.01025	.01010	.09528	.01023	1.0384	.01008	.00960	MRLG1801
20	MRLG1802	.21331	.04924	.00940	.00489	.00404	.09683	.00514	.50886	.00969	.00949	MRLG1802
21	CCV1	105.25	1.5307	1.0655	2.0494	1.5318	2.5194	2.0457	76.101	2.4391	.96672	CCV1
22	CCB1	.01087	.00170	.00034	.00083	.00025	.00372	.00015	.13756	.00020	-.00015	CCB1
23	IDL-01	-.00254	.00072	-.00031	.00031	.00010	.00137	.00002	.02901	-.00014	-.00004	IDL-01
24	IDL-02	-.00547	.00102	.00059	.00005	.00010	.00067	-.00002	-.00670	.00002	-.00017	IDL-02
25	IDL-03	-.00674	-.00035	.00125	-.00025	.00005	.00010	-.00002	-.00820	-.00010	-.00018	IDL-03
26	IDL-04	-.00717	.00087	.00072	-.00019	.00005	-.00008	-.00002	-.00866	-.00014	-.00009	IDL-04
27	IDL-05	-.00813	.00059	.00160	-.00023	.00003	-.00011	-.00001	-.00857	-.00020	-.00020	IDL-05
28	IDL-06	-.00240	-.00006	.00098	-.00021	.00002	-.00029	-.00007	-.00561	-.00007	-.00003	IDL-06
29	IDL-07	-.00827	.00095	-.00040	-.00013	-.00001	-.00033	-.00001	-.00667	-.00019	-.00007	IDL-07
30	LOQV-01	.22117	.09783	.00917	.01031	.01004	.09454	.01023	1.0095	.01002	.00935	LOQV-01
31	LOQV-01	.21695	.09769	.00967	.01080	.01017	.09488	.01058	1.0155	.01005	.00981	LOQV-01
32	Blank	-.00349	.00041	.00046	-.00004	.00004	-.00055	-.00004	.00351	-.00018	-.00010	Blank
33	CCV2	107.06	1.5288	1.0654	2.0603	1.5197	2.4965	2.0242	75.298	2.4218	.97203	CCV2
34	CCB2	.00740	.00154	.00101	.00036	.00024	.00268	.00005	.04234	.00015	-.00018	CCB2
35	LODV-01	.03709	.03397	.00642	.00225	.00119	.01156	.00219	.12752	.00325	.00209	LODV-01
36	LODV-01	.05074	.03093	.00471	.00248	.00115	.00948	.00187	.13173	.00351	.00200	LODV-01
37	G075-02T	.02797	.00075	.00330	.10425	.00010	1.2989	-.00011	157.41	.00521	.00067	G075-02T
38	G077-20W	127.90	.02326	.14178	1.1279	.01003	.07055	.43978	25.189	.21085	.05065	G077-20W
39	G077-21W	82.836	.04440	.18906	.72990	.01071	.07174	1.5447	80.712	.22576	.05504	G077-21W
40	Blank	-.00013	.00000	.00008	-.00016	.00004	-.00005	-.00001	.00510	-.00006	-.00011	Blank
41	MRLG1803	.22528	.09747	.01078	.01032	.01009	.09399	.01018	1.0266	.01010	.00956	MRLG1803
42	MRLG1804	.21850	.04835	.00981	.00499	.00398	.09399	.00494	.49190	.00962	.00958	MRLG1804
43	CCV3	105.99	1.5188	1.0459	2.0417	1.5013	2.4817	2.0123	75.547	2.4164	.97359	CCV3
44	CCB3	.00779	.00204	.00129	.00022	.00017	.00223	.00007	.04760	.00012	-.00004	CCB3
45	IPG030SB	.00184	.00095	-.00028	.00087	.00007	.00084	-.00010	.00278	.00057	-.00019	IPG030SB
46	IPG030SL	5.3405	2.5179	.52339	.51953	.51513	.46831	.51059	50.595	.50306	.50225	IPG030SL
47	IPG030SC	5.2355	2.4744	.51148	.51447	.51171	.46373	.50218	49.983	.49520	.49553	IPG030SC
48	G107-03A	62.623	2.4491	.55566	1.1585	.51598	.47656	.49422	82.711	.59069	.53107	G107-03A
49	G107-03	57.946	.00310	.03810	.65102	.00221	.00929	-.00003	34.133	.09988	.03589	G107-03
50	G107-03J	12.268	.00127	.00835	.13541	.00052	.00199	-.00012	7.1184	.02066	.00709	G107-03J
51	G107-03M	75.583	2.4197	.55120	1.1410	.51568	.47745	.49551	86.556	.59696	.53604	G107-03M
52	G107-03S	77.499	2.4448	.55894	1.1503	.51596	.47953	.50005	86.730	.59755	.53679	G107-03S
53	Blank	.00709	.00166	-.00066	.00022	.00011	.00032	-.00004	.01314	-.00009	-.00009	Blank
54	CCV4	107.62	1.5408	1.0648	2.0575	1.5051	2.4965	2.0442	75.205	2.4205	.97372	CCV4

55	CCB4	.01252	.00175	.00147	.00033	.00026	.00239	.00008	.03422	.00007	-.00008	CCB4
56	IPG028SB	.00502	.00120	.00015	.00062	.00008	.00085	-.00012	.00328	.00078	-.00008	IPG028SB
57	IPG028SL	5.2465	2.4585	.51561	.51735	.51223	.45743	.50400	50.169	.49902	.50294	IPG028SL
58	IPG028SC	5.2487	2.4827	.51927	.52121	.51350	.46237	.50773	50.500	.49970	.50291	IPG028SC
59	G089-11A	111.03	2.4532	.57125	2.7740	.51874	.48958	.49487	64.463	.62318	.57892	G089-11A
60	G089-11	107.20	.00215	.05482	2.2969	.00771	.02753	.00184	15.383	.13826	.08675	G089-11
61	G089-11J	22.348	.00099	.01218	.45835	.00158	.00536	.00023	3.1362	.02795	.01708	G089-11J
62	G089-11M	186.12	2.1473	.57450	3.2349	.52818	.50227	.50020	66.591	.67936	.59604	G089-11M
63	G089-11S	183.06	2.1461	.56483	3.1660	.52061	.50414	.49414	66.252	.67092	.58757	G089-11S
64	G089-01	87.986	.00390	.06130	3.3308	.00752	.06184	.01444	143.82	.12202	.08148	G089-01
65	Blank	.01015	.00049	-.00043	.00070	.00007	-.00015	-.00004	.02074	-.00008	-.00003	Blank
66	CCV5	106.03	1.5236	1.0592	2.0705	1.4964	2.4753	2.0249	75.124	2.4212	.97374	CCV5
67	CCB5	.00566	.00262	-.00089	.00052	.00023	.00215	.00012	.04638	.00026	-.00013	CCB5
68	G089-02	90.692	.00239	.05571	2.9829	.00748	.05171	.01125	111.44	.12719	.07912	G089-02
69	G089-03	92.039	.00364	.06792	3.4412	.00730	.07341	.01103	119.75	.11567	.07601	G089-03
70	G089-04	84.841	.00053	.06238	2.6749	.00691	.05321	.01222	416.71	.12984	.06488	G089-04
71	G089-05	98.522	.00145	.06294	2.5055	.00745	.03488	.00728	27.522	.15131	.08287	G089-05
72	G089-06	103.28	.00087	.05829	2.4163	.00741	.02938	.00299	21.139	.15037	.08178	G089-06
73	G089-07	97.417	.00079	.05818	2.3249	.00726	.02725	.00307	23.046	.13851	.07902	G089-07
74	G089-08	93.209	.00303	.09408	2.6061	.00683	.04993	.00544	44.722	.13007	.07770	G089-08
75	G089-09	119.40	.00053	.08306	2.8368	.00801	.04011	.00610	34.859	.16301	.08932	G089-09
76	G089-10	86.788	.00150	.06510	2.3975	.00663	.02888	.00513	22.360	.11744	.07437	G089-10
77	Blank	.00443	.00129	.00063	.00067	.00004	-.00070	-.00004	.00618	-.00009	-.00006	Blank
78	CCV6	106.70	1.5244	1.0718	2.1072	1.5110	2.5008	2.0346	74.976	2.4312	.97172	CCV6
79	CCB6	.00562	.00169	-.00056	.00038	.00025	.00210	.00012	.05944	.00017	-.00003	CCB6
80	G077-05	105.52	.00346	.06563	.94610	.00660	.02784	.06406	28.598	.16895	.05643	G077-05
81	G077-09	120.24	.00448	.07885	1.1386	.00823	.03084	.06818	30.457	.16656	.05425	G077-09
82	G077-16	250.53	.00144	.12509	2.6142	.01711	.06128	.01987	28.864	.31972	.27550	G077-16
83	Blank	.02539	.00018	-.00045	.00051	.00005	-.00047	-.00006	-.00048	-.00004	-.00020	Blank
84	CCV7	104.17	1.5171	1.0617	2.0907	1.4911	2.4762	2.0162	74.841	2.4148	.97308	CCV7
85	CCB7	.00505	.00176	-.00050	.00023	.00021	.00223	.00011	.04438	-.00009	-.00005	CCB7
86	IPG029SB	-.00755	.00130	-.00059	.00297	.00007	.00103	-.00005	.01394	.00051	-.00016	IPG029SB
87	IPG029SL	5.2324	2.4971	.51982	.53518	.52006	.47034	.50917	50.577	.50458	.50359	IPG029SL
88	IPG029SC	5.1188	2.4120	.50299	.51927	.50539	.45799	.49204	49.375	.48976	.48868	IPG029SC
89	G088-20A	101.06	2.4343	.61159	3.8404	.52193	.51243	.49258	135.54	.62306	.57883	G088-20A
90	G088-20	98.670	.00380	.10073	3.3878	.00869	.05229	.00806	89.127	.14288	.08683	G088-20
91	G088-20J	21.223	.00177	.02296	.69303	.00190	.01104	.00153	18.639	.03004	.01778	G088-20J
92	G088-20M	157.19	2.2251	.62274	4.0799	.52696	.52861	.50353	136.75	.69852	.58722	G088-20M
93	G088-20S	157.84	2.2165	.62431	4.1391	.52084	.53078	.49663	138.13	.65078	.58269	G088-20S
94	G088-01	62.035	.02543	.16602	1.2604	.00752	.06133	.50713	175.01	.13602	.06933	G088-01
95	Blank	-.00264	.00058	-.00098	.00020	.00007	.00009	.00000	.01516	-.00008	-.00007	Blank
96	CCV8	103.93	1.4934	1.0473	2.0959	1.4888	2.4628	1.9904	74.751	2.3920	.95449	CCV8
97	CCB8	.00726	.00175	.00028	.00113	.00029	.00254	.00011	.14226	.00004	-.00012	CCB8
98	G088-02	60.367	.02309	.15463	1.2152	.00722	.05633	.48294	163.99	.12088	.06790	G088-02
99	G088-03	49.444	.01686	.06346	.63899	.00331	.04319	.50382	750.01	.11394	.03426	G088-03
100	G088-04	48.017	.02157	.07134	.82588	.00343	.03206	.33368	221.11	.09689	.03289	G088-04
101	G088-05	57.158	.02102	.06400	1.1237	.00405	.04493	.35855	371.26	.18151	.05346	G088-05
102	G088-06	103.57	.00056	.05908	1.1281	.00546	.02564	.01994	52.344	.11890	.06901	G088-06
103	G088-07	111.02	.00166	.06784	1.2826	.00610	.03317	.02916	118.46	.13801	.07378	G088-07
104	G088-08	129.74	-.00014	.05938	1.1577	.00618	.02976	.01670	60.539	.14562	.06929	G088-08
105	G088-09	108.09	.00224	.07964	1.1804	.00582	.03910	.00932	83.273	.13100	.07627	G088-09
106	G088-10	109.95	.00146	.07764	1.0320	.00586	.03253	.00678	69.823	.12607	.07011	G088-10
107	Blank	.00865	.00054	.00009	.00022	.00000	-.00045	.00000	.01087	-.00005	-.00017	Blank
108	CCV9	105.48	1.5082	1.0550	2.1139	1.4932	2.4629	2.0129	73.701	2.3988	.95685	CCV9
109	CCB9	.00565	.00229	.00087	.00087	.00026	.00164	.00012	.09706	.00014	-.00004	CCB9
110	G088-11	87.499	.00274	.06598	1.1567	.00533	.02296	.02562	63.522	.11262	.07390	G088-11
111	G088-12	94.946	.00277	.06423	1.2130	.00524	.02623	.02392	66.490	.11910	.07184	G088-12

112	G088-13	103.40	.00161	.07345	1.0170	.00555	.02939	.01371	79.971	.12557	.10594	G088-13
113	G088-14	81.750	.00307	.05984	1.0494	.00500	.02504	.04744	131.68	.11063	.06632	G088-14
114	G088-15	83.586	.00754	.11047	1.0735	.00494	.04111	.10258	280.45	.14336	.07679	G088-15
115	G088-16	40.777	.02219	.05845	.63692	.00325	.02405	.45305	298.52	.14667	.03885	G088-16
116	G088-17	68.138	.00125	.04973	1.7152	.00506	.08497	.02203	1118.7*	.14489	.04951	G088-17
117	G088-18	45.974	-.00004	.11384	1.3458	.00329	.03662	.01506	1201.7*	.11076	.02900	G088-18
118	G088-19	93.916	.00473	.10193	3.2948	.00874	.05658	.01207	82.929	.13962	.08293	G088-19
119	Blank	.00651	-.00032	-.00130	.00050	.00005	-.00080	-.00002	.05626	-.00017	-.00014	Blank
120	CCV10	106.19	1.4983	1.0662	2.1773	1.5154	2.4876	2.0032	73.921	2.4124	.95280	CCV10
121	CCB10	.00160	.00145	.00062	.00072	.00027	.00212	.00007	.11082	.00011	-.00018	CCB10
122	Al 400	375.12*	.00049	.00266	.00003	.00009	.00084	.00017	.01073	-.00013	-.00013	Al 400
123	Blank	.05687	-.00038	.00022	.00002	.00007	-.00009	.00002	.01568	-.00008	.00008	Blank
124	Sb 20	.00317	18.642*	.00116	.00000	-.00003	-.00064	-.00001	-.01246	-.00004	-.00011	Sb 20
125	Blank	-.00226	.01455	.00091	.00020	.00000	-.00042	-.00003	.02208	-.00007	-.00014	Blank
126	As 25	-.00775	.00551	24.539*	-.00005	.00005	-.00077	.00001	-.01009	.00011	-.00021	As 25
127	Blank	-.00613	.00320	.00170	-.00018	.00001	-.00087	-.00009	-.01245	-.00014	-.00018	Blank
128	Ba 50	-.00855	.00314	.00001	53.360*	.00004	-.00104	.00022	-.01007	-.00009	.00257	Ba 50
129	Blank	-.01073	.00241	.00063	.01298	.00005	-.00078	-.00004	-.01215	-.00011	-.00012	Blank
130	Be 20	-.01221	.00711	-.00066	.00148	19.635*	-.00151	.00001	-.01142	-.00031	-.00011	Be 20
131	Blank	-.01184	.00315	.00008	.00039	.00360	-.00115	-.00001	-.01283	-.00003	.00002	Blank
132	CCV11	108.50	1.5079	1.0655	2.1825	1.5280	2.5013	2.0196	73.951	2.4138	.95312	CCV11
133	CCB11	.00500	.00371	.00030	.00109	.00060*	.00156	.00013	.10660	.00020	-.00006	CCB11
134	B 20	-.00689	.00237	.00078	-.00009	.00019	18.158*	-.00004	-.01345	-.00001	-.00012	B 20
135	Blank	-.00865	.00200	.00063	-.00013	.00009	.02673	-.00004	-.01107	-.00006	-.00009	Blank
136	Cd 20	-.00866	.00172	-.00146	-.00010	.00004	.01303	19.339*	-.01529	-.00190	-.00461	Cd 20
137	Blank	-.01242	.00073	.00021	-.00014	.00001	.00853	.00159	.00028	-.00018	-.00024	Blank
138	Ca 1000	.01577	-.00044	-.00228	.00184	-.00014	.00658	-.00031	928.89*	.00075	-.00092	Ca 1000
139	Blank	-.00994	.00165	-.00096	.00011	.00003	.00471	.00003	.26275	-.00009	-.00006	Blank
140	Cr 20	-.05854	.01015	-.02643*	-.00051	-.00016	.00049	.00040	-.00049	18.577*	.00109	Cr 20
141	Blank	-.00950	.00088	.00007	.00053	-.00001	.00282	.00001	.04646	.00285	-.00010	Blank
142	Co 50	-.02378	-.00008	-.00412	.00010	-.00002	-.00107	-.00086	-.00733	.00040	47.614*	Co 50
143	Blank	-.00953	.00099	-.00049	.00061	.00006	.00175	-.00002	.03321	.00012	.00303	Blank
144	CCV12	105.57	1.4911	1.0717	2.2071*	1.5255	2.5009	1.9932	73.910	2.4116	.95239	CCV12
145	CCB12	-.00224	.00208	-.00065	.00084	.00025	.00502	.00002	.08156	-.00007	.00000	CCB12
146	Cu 25	-.00893	.00809	-.00051	.00009	.00069	.00300	-.00009	-.01056	-.00004	-.00001	Cu 25
147	Blank	-.00726	.00086	-.00104	.00054	.00002	.00239	-.00008	.04149	-.00004	.00001	Blank
148	Fe 500	-.01149	-.00621	-.00067	.00009	.00005	.07693	-.00001	-.00755	-.00010	.00061	Fe 500
149	Blank	-.00588	.00114	.00065	.00046	.00003	.00147	-.00003	.04203	-.00012	-.00002	Blank
150	Pb 100	-.00509	.00130	-.00109	.00029	.00002	.00096	-.00001	.04492	-.00009	-.00010	Pb 100
151	Blank	-.00809	.00095	.00065	.00038	.00001	.00098	-.00005	.03880	-.00026	-.00013	Blank
152	Li 50	-.00305	.00109	.00005	.00040	.00002	.00072	-.00012	-.01305	-.00008	-.00006	Li 50
153	Blank	-.01080	.00123	.00012	.00023	.00002	.00074	-.00003	.04066	-.00013	-.00012	Blank
154	Mg 1000	.00185	.00090	.00117	.00009	.00004	.00189	-.00009	.05914	-.00002	-.00048	Mg 1000
155	Blank	-.01035	.00114	.00129	.00057	.00003	.00080	-.00005	.03918	-.00027	-.00021	Blank
156	CCV13	106.65	1.4774	1.0572	2.2178*	1.5401	2.5175	1.9837	74.269	2.4096	.95146	CCV13
157	CCB13	.00492	.00238	.00002	.00089	.00029	.00340	.00005	.09906	.00008	-.00007	CCB13
158	Mn 50	.02259	.00023	.00306	-.00034	.00002	.00386	-.00006	-.01105	-.00106	-.00001	Mn 50
159	Blank	-.00765	.00090	-.00005	-.00021	.00003	.00082	.00000	-.00131	-.00015	-.00013	Blank
160	Mo 15	-.03718	-.04336	-.00575*	-.00061	-.00069	-.00144	-.00090	-.01490	.00008	-.01677*	Mo 15
161	Blank	-.00896	.00073	-.00106	-.00007	.00000	.00060	-.00003	-.00290	-.00003	-.00023	Blank
162	K 750	.00055	.00145	-.00084	-.00011	.00002	.00048	-.00001	-.01190	.00019	-.00015	K 750
163	Blank	-.01247	.00084	.00160	-.00022	-.00001	.00046	.00001	.00091	-.00010	-.00015	Blank
164	Ni 50	-.00889	.00101	.00027	-.00018	.00005	.00214	-.00307	.03610	-.00023	.00238	Ni 50
165	Blank	-.00930	.00104	-.00063	-.00020	.00004	.00033	-.00009	.00456	-.00012	-.00007	Blank
166	Se 20	-.00914	.00127	-.00011	-.00010	-.00001	.00018	.00000	-.00756	.00001	-.00001	Se 20
167	Blank	-.00906	.00050	.00136	.00023	.00000	-.00025	-.00008	.03921	-.00014	-.00018	Blank
168	CCV14	107.47	1.5121	1.0818	2.2289*	1.5379	2.5096	2.0220	74.029	2.4117	.95196	CCV14

169	CCB14	.00008	.00155	-.00001	.00073	.00025	.00309	.00005	.11750	-.00006	-.00025	CCB14
170	Ag 5	-.01008	.00070	-.00047	-.00015	.00003	.00133	.00005	-.01180	-.00006	-.00004	Ag 5
171	Blank	-.01049	.00076	.00000	.00013	.00001	.00088	-.00005	.03628	-.00017	-.00023	Blank
172	Na 750	.00155	.00087	-.00013	-.00019	.00015	.00066	-.00008	-.00845	-.00025	-.00015	Na 750
173	Blank	-.00860	.00026	.00026	-.00026	.00000	.00030	-.00005	-.01773	-.00020	-.00009	Blank
174	Sn 25	.08517	.01539	-.00038	-.00016	.00004	.00008	.00002	.20045	-.00015	-.00024	Sn 25
175	Blank	-.01105	.00108	.00095	-.00041	.00000	-.00034	-.00001	-.01667	-.00014	.00005	Blank
176	Sr 25	-.00010	.01223	-.00031	.00117	.00081	-.00044	.00001	-.00997	.00012	-.00046	Sr 25
177	Blank	-.01229	.00062	.00090	.00014	-.00001	-.00045	-.00008	.03552	-.00017	-.00015	Blank
178	Tl 50	-.01168	.00098	.00027	-.00016	-.00004	-.00056	.00004	-.01349	-.00018	-.00003	Tl 50
179	Blank	-.01261	.00125	-.00042	.00051	-.00003	-.00047	.00000	.03677	-.00016	-.00012	Blank
180	CCV15	116.67*	.07348*	-.23634*	2.2324*	1.5392	2.5965	-.01589*	73.963	2.5028	1.8245*	CCV15
181	CCB15	-.01038	.00118	.00054	.00000	.00002	.00067	.00002	.00497	-.00011	-.00019	CCB15
182	Ti 25	.00090	-.00380	-.00050	.00025	.00001	.00560	.00132	-.01170	.00085	-.00588*	Ti 25
183	Blank	-.00843	.00024	-.00008	.00067	.00006	-.00016	-.00006	.03384	.00006	-.00024	Blank
184	V 10	.22154	-.01387	.00138	-.00030	.00364	-.00056	-.00008	-.01181	-.00036	-.00013	V 10
185	Blank	-.00845	.00139	-.00004	.00011	.00007	-.00015	-.00004	.03725	-.00009	-.00009	Blank
186	Zn 40	-.00797	.01096	.00051	.00004	-.00002	-.00059	-.00001	-.01290	-.00011	-.00009	Zn 40
187	Blank	-.01347	.00114	.00011	.00009	.00004	-.00037	-.00002	.01814	-.00006	-.00016	Blank
188	CCV16	105.67	1.4886	1.0647	2.2193*	1.5295	2.5030	1.9917	73.479	2.3984	.94481	CCV16
189	CCB16	-.00809	.00141	-.00033	.00009	.00015	.00266	.00008	.00163	-.00005	-.00008	CCB16
190	TEST1	.00674	.00076	.00304	.09858	.00003	.05915	-.00003	62.202	.01319	-.00038	TEST1
191	TEST2	5.5535	2.5868	.55141	.65628	.52551	.57965	.50756	109.82	.50348	.47805	TEST2
192	TEST3	5.7301	2.6503	.56769	.66996	.53517	.58956	.51967	112.07	.51295	.48745	TEST3
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

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ID8G012 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
1	Blank	.00117	.00001	.00022	-.00030	-.00001	.00000	-.00009	-.00082	-.00082	.00000	Blank
2	S20			.20167			.10145					S20
3	S21			1.9767			1.0044					S21
4	S22	.32926	.05954									S22
5	S23	3.2800	2.3441									S23
6	S24							.65313				S24
7	S25							6.5509				S25
8	S26								.79886	.32734		S26
9	S27								7.7011	3.1663		S27
10	S28					.02022						S28
11	S29					.19996						S29
12	S30				.02810						.00139	S30
13	S31				.13777						.00556	S31
14	ICV	2.4709	24.864	2.3889	.49736	57.993	2.3573	2.4522	2.4086	57.516	1.0633	ICV
15	ICB	.00012	.00148	-.00008	.00072	.01473	.00050	.00067*	.00009	.10015	.00123	ICB
16	ICSA1	.00123	188.81	.00111	.00518	195.67	.00205	-.00119	.00096	.16862	.00128	ICSA1
17	ICSAB1	.50893	189.51	.93983	1.0445	195.91	.47652	1.0034	.94810	76.436	1.0691	ICSAB1
18	Blank	.00001	.01541	-.00127	.00030	.04124	.00023	.00032	.00000	.12897	.00170	Blank
19	MRLG1801	.00999	.21212	.00950	.01058	1.0260	.00988	.01018	.01025	1.0339	.01108	MRLG1801
20	MRLG1802	.01005	.10580	.00253	.10382	.21871	.00485	.00988	.01011	1.0054	.00986	MRLG1802
21	CCV1	2.4786	24.852	2.4362	.51729	60.265	2.4462	2.5402	2.4586	60.390	1.0791	CCV1
22	CCB1	.00039	.00220	-.00025	.00072	.01417	.00060	.00077*	.00030	.09488	-.00046	CCB1
23	IDL-01	.00016	.00570	-.00024	-.00032	.01355	.00036	.00022	.00004	.06169	-.00003	IDL-01
24	IDL-02	.00014	-.00112	-.00105	.00006	-.00312	.00023	.00012	-.00007	.04328	.00030	IDL-02
25	IDL-03	.00002	-.00270	-.00051	.00027	.01091	.00030	.00010	.00004	.03086	.00056	IDL-03
26	IDL-04	.00003	-.00155	-.00007	.00040	.00059	.00002	-.00004	-.00011	.01893	.00076	IDL-04
27	IDL-05	-.00009	.00084	-.00077	.00043	-.00842	.00002	-.00002	-.00003	.01395	.00170	IDL-05
28	IDL-06	-.00011	-.00312	-.00059	.00007	.00880	-.00003	.00010	.00004	.00074	.00070	IDL-06
29	IDL-07	-.00009	.00208	-.00046	.00041	.00672	.00010	.00009	.00005	.02524	.00182	IDL-07
30	LOQV-01	.01170	.20424	.00990	1.0030	1.0028	.01033	.01021	.01027	.96252	.01015	LOQV-01
31	LOQV-01	.01026	.20619	.00943	.02081	1.0164	.01009	.05075	.00986	.97175	.01064	LOQV-01
32	Blank	-.00011	.00052	-.00024	.00040	-.00059	.00042	.00010	-.00015	-.02601	.00004	Blank
33	CCV2	2.5165	25.040	2.4349	.51370	59.564	2.4283	2.5585	2.4739	59.505	1.0722	CCV2
34	CCB2	.00024	.00357	-.00044	.00040	.00750	.00044	.00061	.00000	.07281	.00018	CCB2
35	LODV-01	.00403	.05034	.00256	.05715	.11460	.00365	.00342	.00350	.14283	.00619	LODV-01
36	LODV-01	.00321	.03707	.00256	.00602	.12493	.00304	.00348	.00317	.14117	.00635	LODV-01
37	G075-02T	.00176	.67538	-.00060	.06556	397.88	1.0265	.00026	.00760	202.81	.00220	G075-02T
38	G077-20W	.95075	358.10	19.858	.10643	10.325	.80117	.00106	.22422	11.559	.01615	G077-20W
39	G077-21W	1.6829	333.33	29.197	.06654	39.208	1.4260	-.00068	.31947	12.353	.02470	G077-21W
40	Blank	-.00010	.01368	.00014	.00104	.01059	.00033	.00011	.00005	-.02989	.00007	Blank
41	MRLG1803	.01044	.21913	.00946	.01015	1.0296	.00987	.01033	.01019	.96926	.01020	MRLG1803
42	MRLG1804	.01007	.10776	.00254	.10365	.19743	.00496	.00973	.00997	.92883	.01048	MRLG1804
43	CCV3	2.5015	24.952	2.4311	.51450	58.808	2.4192	2.5476	2.4690	59.348	1.0542	CCV3
44	CCB3	.00016	.00415	-.00022	.00112	-.00477	.00037	.00069	.00000	.00493	.00273	CCB3
45	IPG030SB	.00029	.00399	-.00072	-.00016	.00842	.00020	.00032	-.00009	.04854	.00107	IPG030SB
46	IPG030SL	.51088	5.2192	.50064	.00034*	49.964	.50066	.54044	.45447	49.336	.51733	IPG030SL
47	IPG030SC	.50207	5.1090	.49509	.00046*	49.715	.49530	.53090	.44803	48.993	.50644	IPG030SC
48	G107-03A	.61442	99.247	.52868	.05594	80.473	2.2935	.53157	.52275	63.302	.51112	G107-03A
49	G107-03	.10908	97.119	.03669	.05578	31.512	1.8569	.00543	.07464	14.323	.00428	G107-03
50	G107-03J	.02266	20.472	.00716	.01210	6.5584	.38614	.00108	.01516	2.9465	.00240	G107-03J
51	G107-03M	.62562	102.60	.55080	.06210	82.409	2.3799	.54226	.52755	63.224	.50809	G107-03M
52	G107-03S	.62519	104.27	.53416	.06320	84.126	2.4057	.54380	.52417	63.319	.51092	G107-03S
53	Blank	.00015	.01007	-.00073	.00102	.02380	.00025	.00016	.00011	.06952	-.00056	Blank
54	CCV4	2.5188	25.104	2.4313	.51546	59.085	2.4171	2.5649	2.4733	59.494	1.0720	CCV4

55	CCB4	.00054	.00439	-.00069	.00107	.01239	.00070	.00071*	.00010	.11007	.00043	CCB4
56	IPG028SB	.00038	.00400	-.00010	.00004	-.00223	.00026	.00034	.00011	.11164	.00264	IPG028SB
57	IPG028SL	.50647	5.1722	.49985	.00033*	49.335	.49793	.52979	.45413	48.773	.50871	IPG028SL
58	IPG028SC	.50606	5.1651	.50137	.00144*	49.858	.50111	.53227	.45420	49.350	.51278	IPG028SC
59	G089-11A	.65755	120.43	.94498	.05868	61.106	9.5744	.52910	.55218	64.363	.51179	G089-11A
60	G089-11	.15200	119.20	.47173	.05897	12.155	9.4131	.00544	.10666	15.502	.00479	G089-11
61	G089-11J	.03057	24.561	.09536	.01237	2.4507	1.9167	.00108	.02108	3.1023	.00022	G089-11J
62	G089-11M	.68220	139.89	.80393	.10646	66.482	10.307	.52290	.58243	74.226	.50662	G089-11M
63	G089-11S	.67418	137.33	.78924	.10664	66.149	10.071	.52476	.57264	73.934	.50090	G089-11S
64	G089-01	.16417	105.44	.76014	.04959	11.632	12.983	.00400	.11148	14.843	.00542	G089-01
65	Blank	-.00014	.01613	-.00037	.00028	.01913	.00258	.00008	-.00001	.04398	.00069	Blank
66	CCV5	2.4900	25.064	2.4328	.51267	58.897	2.4253	2.5555	2.4752	59.169	1.0660	CCV5
67	CCB5	.00014	.00311	-.00005	.00152	.01724	.00063	.00081	.00004	.07778	-.00065	CCB5
68	G089-02	.13318	105.29	.55268	.04955	10.697	11.543	.00415	.11022	13.983	.00464	G089-02
69	G089-03	.19299	112.05	.83285	.05653	12.162	11.605	.00509	.11852	17.260	.00526	G089-03
70	G089-04	.13366	98.091	.72640	.05684	12.956	9.2291	.00447	.11039	15.821	.00298	G089-04
71	G089-05	.41986	111.89	.70461	.05778	11.155	10.818	.00581	.11869	16.128	.00552	G089-05
72	G089-06	.27890	113.09	.40426	.05676	11.262	9.8272	.00558	.11493	14.931	.00422	G089-06
73	G089-07	.25134	108.93	.41354	.05554	10.595	9.6604	.00546	.10984	14.347	.00356	G089-07
74	G089-08	.63540	107.44	.61751	.05323	11.275	9.8843	.00532	.10382	16.434	.00579	G089-08
75	G089-09	.25842	129.32	.60210	.06815	13.436	10.621	.00565	.13216	18.809	.00542	G089-09
76	G089-10	.35398	101.16	.55004	.04900	10.596	9.5265	.00476	.09636	15.296	.00453	G089-10
77	Blank	-.00014	.01248	-.00073	.00025	.00901	.00206	-.00006	.00004	-.00589	.00072	Blank
78	CCV6	2.4958	25.003	2.4438	.51526	59.710	2.4524	2.5500	2.4718	59.868	1.0811	CCV6
79	CCB6	.00034	.00438	-.00053	.00005	.01457	.00065	.00079*	.00017	.03668	.00053	CCB6
80	G077-05	.16152	154.02	1.2550	.05584	9.5675	3.2128	.00436	.08583	7.0301	.00479	G077-05
81	G077-09	.15049	154.34	1.1750	.06663	12.244	3.2073	.00321	.08799	7.7587	.00846	G077-09
82	G077-16	.10265	329.65	.29365	.15744	14.355	2.3035	.00509	.24268	14.888	.00923	G077-16
83	Blank	-.00004	.03976	-.00066	.00070	.00341	.00054	.00016	.00002	-.04818	.00145	Blank
84	CCV7	2.4791	24.904	2.4376	.51412	58.951	2.4314	2.5500	2.4747	59.277	1.0659	CCV7
85	CCB7	.00021	.00494	-.00044	.00131	.01898	.00036	.00063*	.00009	.03803	-.00011	CCB7
86	IPG029SB	-.00016	.00441	-.00081	.00033	.01521	.00027	.00038	.00023	.03953	.00104	IPG029SB
87	IPG029SL	.50379	5.1395	.50342	.00087*	50.869	.50820	.54202	.45478	50.272	.51246	IPG029SL
88	IPG029SC	.49038	5.0056	.48940	.00167*	49.727	.49635	.52645	.44173	48.833	.49332	IPG029SC
89	G088-20A	.67791	136.67	1.4674	.05992	59.523	11.911	.53366	.59809	64.557	.50726	G088-20A
90	G088-20	.17540	136.98	1.0148	.06215	10.550	11.783	.00649	.15646	15.499	.00398	G088-20
91	G088-20J	.03631	29.458	.21148	.01339	2.2235	2.4720	.00123	.03171	3.1205	.00205	G088-20J
92	G088-20M	.69996	143.74	1.4954	.09637	62.908	12.064	.53582	.63945	69.871	.51683	G088-20M
93	G088-20S	.69357	144.74	1.5072	.09783	62.685	12.079	.52999	.61268	69.906	.51087	G088-20S
94	G088-01	.43063	169.53	13.393	.04187	22.742	4.5362	.00209	.16858	8.9343	.00594	G088-01
95	Blank	-.00023	.01227	.00021	.00116	.01141	.00118	.00004	-.00002	.01315	.00004	Blank
96	CCV8	2.4340	24.355	2.4059	.51469	59.237	2.4297	2.5138	2.4298	59.272	1.0552	CCV8
97	CCB8	.00034	.00611	-.00078	-.00039	.01571	.00077	.00068*	.00014	.06681	.00023	CCB8
98	G088-02	.43273	162.91	13.558	.04103	20.715	4.4545	.00217	.15066	8.8238	.00650	G088-02
99	G088-03	.22210	85.658	3.5419	.04090	12.136	2.4435	.00542	.16975	7.4222	.00805	G088-03
100	G088-04	.39816	104.22	8.7957	.02991	25.814	3.9574	-.00116	.10829	6.2910	.00646	G088-04
101	G088-05	.50770	106.29	9.7191	.03830	20.788	3.9698	-.00062	.14083	8.5992	.00674	G088-05
102	G088-06	.08048	123.07	.64712	.05295	8.8697	3.7054	.00409	.07200	9.1423	.00472	G088-06
103	G088-07	.17122	129.97	1.2547	.05361	9.6224	4.0041	.00375	.10181	9.8291	.00370	G088-07
104	G088-08	.12278	129.95	.70589	.05572	9.9661	3.3472	.00350	.09656	10.460	.00375	G088-08
105	G088-09	.25340	118.95	.61737	.05403	9.8103	4.1472	.00339	.09261	10.341	.00480	G088-09
106	G088-10	.09876	117.53	.36598	.05021	8.7342	3.7559	.00297	.11056	10.549	.00267	G088-10
107	Blank	-.00006	.01428	-.00067	.00035	-.01140	.00085	.00013	-.00004	-.01264	.00134	Blank
108	CCV9	2.4620	24.598	2.3992	.51814	59.657	2.4422	2.5254	2.4326	59.374	1.0611	CCV9
109	CCB9	.00028	.00318	-.00043	.00139	.00745	.00052	.00064*	.00011	.06309	.00185	CCB9
110	G088-11	.11921	117.96	1.5640	.04299	7.4418	3.6243	.00407	.07816	7.4808	.00560	G088-11
111	G088-12	.12056	116.44	1.5369	.04734	8.0169	3.4772	.00376	.08640	8.1948	.00531	G088-12

112	G088-13	.10471	121.82	.95881	.04554	8.0905	3.4488	.00299	.11928	9.2499	.00551	G088-13
113	G088-14	.10829	118.04	1.1623	.04447	8.6872	3.7009	.00377	.07613	7.6360	.00511	G088-14
114	G088-15	.71183	108.83	2.3417	.04809	16.680	3.3752	.00034	.14616	9.6579	.00511	G088-15
115	G088-16	.33469	78.075	4.9162	.02809	33.578	4.3028	-.00395	.10295	5.2872	.00798	G088-16
116	G088-17	.15409	79.740	.87674	.05249	11.898	5.8947	.00229	.14439	17.694	.00330	G088-17
117	G088-18	.08847	86.550	.79066	.04151	9.2057	3.9262	.00477	.07351	12.217	.00325	G088-18
118	G088-19	.18598	129.91	1.4680	.05966	10.478	11.943	.00690	.15098	15.019	.00520	G088-19
119	Blank	.00003	.01431	-.00062	.00150	.00712	.00223	.00015	.00001	.01119	.00142	Blank
120	CCV10	2.4719	24.586	2.4019	.51997	60.708	2.4857	2.5285	2.4324	60.048	1.0767	CCV10
121	CCB10	.00027	.00143	-.00044	.00057	.00565	.00080	.00079*	.00014	.09207	.00199	CCB10
122	Al 400	.00048	.02521	.00062	.00092	.01049	.00133	-.00009	.00079	.03101	.00163	Al 400
123	Blank	.00021	-.00066	-.00082	.00041	.00939	-.00006	.00004	-.00001	-.00388	.00058	Blank
124	Sb 20	-.00018	.00071	-.00323	.00118	-.00512	-.00012	.00010	-.00213	-.00602	.00067	Sb 20
125	Blank	.00016	.00033	-.00033	.00063	-.01010	.00044	.00005	.00007	-.01428	-.00009	Blank
126	As 25	-.00014	-.00107	-.00017	.00068	.00142	.00011	.00010	.00008	-.01780	.00051	As 25
127	Blank	.00016	.00189	-.00071	.00070	.00795	.00010	-.00004	-.00013	-.00782	.00091	Blank
128	Ba 50	.00009	.00045	-.00111	.00135	.01409	-.00008	.00001	-.00027	-.02681	.00137	Ba 50
129	Blank	.00004	.00082	-.00074	.00100	-.00087	.00004	.00004	-.00005	-.02124	.00123	Blank
130	Be 20	-.00002	-.00190	.00016	.00063	-.00737	-.00006	.00021	.00310	-.00700	.00130	Be 20
131	Blank	-.00003	.00025	-.00095	.00087	-.00005	.00008	.00005	.00004	-.00640	.00088	Blank
132	CCV11	2.4796	24.446	2.4059	.52747	61.496	2.4995	2.5396	2.4284	60.540	1.0707	CCV11
133	CCB11	.00041	.00341	-.00065	.00015	.00294	.00082	.00068*	.00030	.05416	.00234	CCB11
134	B 20	-.00006	.00048	-.00051	.00151	.02248	.00003	.00021	-.00007	-.01356	-.00047	B 20
135	Blank	.00008	-.00158	-.00079	.00147	.01499	-.00031	.00023	.00003	.00365	.00084	Blank
136	Cd 20	.00018	.00066	-.00075	.00102	.00211	-.00001	-.00003	.00006	.01153	.00063	Cd 20
137	Blank	.00011	.00000	-.00063	.00121	.00966	.00017	.00009	-.00006	.00731	.00114	Blank
138	Ca 1000	.00231	.01610	-.00170	.01057	.01392	.00024	-.00086	.00038	.07564	-.00341	Ca 1000
139	Blank	.00003	-.00171	-.00080	.00139	.00280	.00037	.00008	-.00007	.00398	.00185	Blank
140	Cr 20	-.00183	.04549	-.00109	.00191	.00970	-.00002	.00084	.00016	.06852	.00067	Cr 20
141	Blank	.00006	-.00075	-.00092	.00042	.00374	.00011	.00009	.00006	-.01328	.00150	Blank
142	Co 50	.00021	1.8810	.00169	.00184	-.02788	-.00004	-.00019	-.00269	-.01263	-.00103	Co 50
143	Blank	.00002	.00218	-.00055	.00111	.00305	-.00002	.00002	.00013	-.00018	.00116	Blank
144	CCV12	2.4828	24.538	2.4074	.52863	61.244	2.5008	2.5396	2.4357	60.782	1.0751	CCV12
145	CCB12	.00036	.00111	-.00114	.00113	.01692	.00055	.00057	.00007	.06700	.00060	CCB12
146	Cu 25	23.774*	.00065	.00114	.00062	-.01251	.00017	.00032	-.00013	-.00511	.00158	Cu 25
147	Blank	.00393	.00344	-.00050	.00082	.01304	.00006	.00012	.00009	-.00053	.00072	Blank
148	Fe 500	.00131	489.06*	-.00046	.00130	-.02222	.00083	.00014	.00111	-.03300	.00015	Fe 500
149	Blank	.00038	.06815	-.00065	.00079	.00734	-.00015	.00001	.00010	-.04061	.00137	Blank
150	Pb 100	.00053	.00722	96.168*	.00219	.01144	.00044	.00014	.00019	-.01001	.00063	Pb 100
151	Blank	.00019	.00158	.00677	.00112	.00776	.00041	.00011	-.00010	-.05776	.00158	Blank
152	Li 50	.00053	-.00306	-.00029	48.809*	.01255	.00000	-.00002	.00004	-.04539	.00002	Li 50
153	Blank	.00012	.00058	-.00029	.01463	.01441	.00015	.00007	.00008	-.02021	-.00005	Blank
154	Mg 1000	.00066	.00560	.00007	.00363	1102.5*	.00294	-.00205	.00023	.52963	.00056	Mg 1000
155	Blank	.00009	-.00008	-.00071	.00186	.17924	-.00012	.00009	.00015	-.03392	.00012	Blank
156	CCV13	2.4743	24.253	2.4104	.53833	62.149	2.5273	2.5456	2.4239	61.663	1.0591	CCV13
157	CCB13	.00044	.00057	-.00061	.00099	.01746	.00070	.00079*	.00023	.02335	.00028	CCB13
158	Mn 50	.00006	-.00635	.00422	.00112	-.07370	49.431*	-.00226	.00065	-.00477	.00394	Mn 50
159	Blank	.00026	-.00177	-.00129	.00111	-.00730	.00824	.00011	-.00011	-.01117	.00071	Blank
160	Mo 15	-.00238	-.01148	-.00072	.00191	-.15124*	.00070	14.349*	-.00014	-.02129	.00227	Mo 15
161	Blank	.00017	.00060	-.00086	.00223	.00145	.00009	.00295	.00003	-.00834	.00121	Blank
162	K 750	.00143	-.00211	-.00093	.00175	.00961	.00007	.00050	.00018	685.95*	.00141	K 750
163	Blank	.00018	.00028	-.00098	.00169	.00397	-.00003	.00021	.00014	.85127	.00020	Blank
164	Ni 50	.00027	-.00451	.00093	.00079	.00320	.00019	.00023	44.808	.23521	-.00008	Ni 50
165	Blank	.00027	-.00080	-.00077	.00126	.00608	.00017	.00004	.00369	.10643	.00080	Blank
166	Se 20	.00007	-.00025	.00039	.00259	.00448	.00072	.00027	.00061	.02448	20.025*	Se 20
167	Blank	.00000	.00155	-.00014	.00219	.00403	.00002	.00004	.00022	.02849	.00236	Blank
168	CCV14	2.4815	24.467	2.4116	.53402	61.828	2.5200	2.5427	2.4356	61.415	1.0950	CCV14

INDX	LSID	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	LSID
169	CCB14	.00038	.00141	-.00089	.00145	.02913	.00035	.00061*	.00019	.11962	.00056	CCB14
170	Ag 5	.00040	.00230	-.00067	.00159	-.00636	.00053	.00023	.00019	.05598	.00018	Ag 5
171	Blank	.00020	.00041	-.00065	.00125	.00691	.00005	.00014	.00013	.01992	.00173	Blank
172	Na 750	.00078	-.00089	-.00068	.00182	-.00130	-.00015	.00007	-.00008	.20091	.00141	Na 750
173	Blank	.00031	.00071	-.00073	.00118	.01098	-.00002	.00012	.00007	.08181	.00104	Blank
174	Sn 25	.00010	.00138	-.00111	.00028	-.00427	.00021	.00023	.00001	.01976	.00100	Sn 25
175	Blank	.00019	-.00219	-.00076	.00121	.00118	.00001	.00004	.00008	-.01850	.00018	Blank
176	Sr 25	.00045	.00289	-.00002	.00178	-.00229	.00111	.00057	.00023	.03867	.00007	Sr 25
177	Blank	-.00001	.00045	-.00058	.00101	-.00073	.00027	.00003	.00001	.00182	-.00089	Blank
178	Tl 50	.00061	-.00146	-.00056	.00114	.01580	-.00003	.00005	.00059	.00543	.00215	Tl 50
179	Blank	.00006	-.00040	-.00103	.00091	-.00315	-.00003	.00001	.00014	.00542	.00046	Blank
180	CCV15	2.5369	25.081	-1.4529*	.54130	61.680	2.5175	-2.8397*	1.7910*	62.107	.19128*	CCV15
181	CCB15	.00043	.00195	-.00078	.00144	-.00078	-.00001	.00031	.00001	.00467	.00024	CCB15
182	Ti 25	.01344	.00299	.00014	-.00013	-.05126	.00004	.00013	.00003	-.01645	.00148	Ti 25
183	Blank	.00013	.00018	-.00044	.00069	-.00795	.00029	.00007	.00002	-.05873	-.00006	Blank
184	V 10	-.00402	.54350	-.00077	.00158	.00799	.00001	-.00102	.00007	-.01681	.00070	V 10
185	Blank	.00017	.00099	-.00084	.00093	-.00111	.00016	.00010	.00001	-.00382	.00046	Blank
186	Zn 40	.00025	-.00309	-.00049	.00135	-.00990	.00025	-.00684*	.00000	-.02269	-.00013	Zn 40
187	Blank	.00006	-.00113	-.00049	.00112	-.00461	.00019	.00009	-.00009	-.01418	.00168	Blank
188	CCV16	2.4594	24.189	2.3944	.53155	61.465	2.5029	2.5131	2.4118	61.197	1.0765	CCV16
189	CCB16	.00022	-.00135	-.00004	.00171	.01214	.00033	.00061*	.00008	.04165	.00075	CCB16
190	TEST1	.00120	.01033	-.00006	.03558	13.134	.00057	.01419	.00149	2.2518	.00176	TEST1
191	TEST2	.50622	5.0420	.49106	.57780	64.037	.51347	.53345	.43281	53.494	.54726	TEST2
192	TEST3	.52097	5.1496	.50119	.59997	65.370	.52333	.54560	.44218	54.596	.56159	TEST3

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INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID
1	Blank	.00014	.00105	-.00020	-.00002	.00005	.00001	-.00026	.00088	Blank
2	S20									S20
3	S21									S21
4	S22							.15166		S22
5	S23							1.5631		S23
6	S24		1.0297							S24
7	S25		5.9758							S25
8	S26									S26
9	S27									S27
10	S28				.00595					S28
11	S29				.05859					S29
12	S30	.04556		.12157		.02664	.01212		.65226	S30
13	S31	.22271		.58727		.12727	.06199		6.3331	S31
14	ICV	.50693	60.472	.48934	2.3975	.46437	.50606	1.4827	2.5295	ICV
15	ICB	.00013	.00377	.00016	.00029	-.00050	.00001	.00002	.00001	ICB
16	ICSA1	.00020	.04654	.00119	-.00256	.00050	-.00188	-.00034	.00432	ICSA1
17	ICSAB1	1.0745	80.221	.49693	.88135	.91031	1.0259	.48319	1.0079	ICSAB1
18	Blank	.00006	.02516	.00011	.00000	-.00037	.00007	-.00005	.00106	Blank
19	MRLG1801	.01026	1.0597	.01050	.00998	.00006	.01043	.00988	.02642*	MRLG1801
20	MRLG1802	.01006	.52864	.01021	.00987	.00930	.01069	.00944	.01073	MRLG1802
21	CCV1	.51413	63.872	.51348	2.4269	.48859	.52250	1.4772	2.5887	CCV1
22	CCB1	.00019	.00747	.00005	.00031	-.00028	.00005	-.00006	.00481	CCB1
23	IDL-01	.00006	-.00600	-.00003	-.00035	-.00057	.00000	-.00003	.00149	IDL-01
24	IDL-02	-.00006	-.00513	.00001	-.00025	-.00026	.00070	-.00009	-.00005	IDL-02
25	IDL-03	.00007	-.00352	-.00006	-.00046	-.00024	.00060	-.00014	-.00041	IDL-03
26	IDL-04	.00002	-.00366	-.00007	-.00019	-.00016	.00019	-.00003	-.00049	IDL-04
27	IDL-05	.00003	-.01038	.00010	-.00066	-.00052	.00030	-.00018	-.00036	IDL-05
28	IDL-06	.00006	-.01047	-.00006	.00014	-.00011	-.00001	.00002	-.00032	IDL-06
29	IDL-07	-.00008	-.01687	.00001	-.00010	-.00051	.00070	-.00015	-.00028	IDL-07
30	LOQV-01	.01022	1.0313	.01045	.01004	.83452	1.0265	.00997	.02018	LOQV-01
31	LOQV-01	.01030	1.0393	.01042	.00922	.24099	.10289	.01007	.02011	LOQV-01
32	Blank	.00009	-.02368	-.00005	-.00052	-.00041	.00036	-.00017	.00039	Blank
33	CCV2	.51243	63.091	.51146	2.4105	.49269	.52031	1.4876	2.5823	CCV2
34	CCB2	.00005	-.00403	.00008	-.00076	-.00024	.00006	.00008	.00132	CCB2
35	LODV-01	.00336	.10435	.00131	.00537	.00550	.00632	.00208	.01377	LODV-01
36	LODV-01	.00278	.10726	.00111	.00347	.14225	.00608	.00145	.01947	LODV-01
37	G075-02T	-.00017	2583.3*	2.6480	-.00093	-.00077	.00889	.01220	.00771	G075-02T
38	G077-20W	.00104	1.6022	.11552	-.00088	.05778	1.1313	.28425	90.454*	G077-20W
39	G077-21W	.00157	2.0146	.14256	-.00158	.06080	.63865	.24119	165.60*	G077-21W
40	Blank	.00004	.02911	-.00014	-.00051	-.00043	-.00034	-.00028	.01143	Blank
41	MRLG1803	.01033	1.0769	.01061	.01013	.00001	.01098	.00988	.02603*	MRLG1803
42	MRLG1804	.00998	.54188	.01006	.00943	.00852	.01058	.00966	.01340*	MRLG1804
43	CCV3	.51164	63.063	.51098	2.3845	.49395	.51055	1.4827	2.5764	CCV3
44	CCB3	-.00004	.03192	.00009	-.00022	-.00027	.00087	-.00002	.00252	CCB3
45	IPG030SB	-.00023	.01804	.00000	-.00147	.04134	.00080	-.00005	.00364	IPG030SB
46	IPG030SL	.50318	52.976	.51132	.48994	.52699	.53109	.51858	.54260	IPG030SL
47	IPG030SC	.49664	52.634	.50758	.48086	.51970	.52840	.50912	.53383	IPG030SC
48	G107-03A	.49004	56.722	.70481	.46471	.51857	6.2217	.70279	.78739	G107-03A
49	G107-03	-.00015	3.9987	.21195	-.00452	.04571	5.7718	.20093	.26395	G107-03
50	G107-03J	-.00008	.80990	.04349	-.00153	.00883	1.1963	.04113	.05347	G107-03J
51	G107-03M	.50915	57.825	.75099	.46380	.53158	7.4371	.72002	.79836	G107-03M
52	G107-03S	.51083	57.923	.75663	.47049	.53292	7.5917	.72694	.79482	G107-03S
53	Blank	.00002	-.00258	.00010	-.00050	-.00027	.00215	-.00007	.00024	Blank
54	CCV4	.51622	63.376	.51237	2.4404	.49381	.51028	1.4910	2.5730	CCV4

55	CCB4	.00012	.00880	.00004	-.00042	-.00032	-.00011	.00013	.00122	CCB4
56	IPG028SB	-.00002	-.00075	-.00006	-.00094	.04157	.00040	.00000	.00261	IPG028SB
57	IPG028SL	.48673	52.463	.50218	.48071	.51962	.51542	.51445	.54000	IPG028SL
58	IPG028SC	.48824	53.145	.50835	.48528	.52164	.52301	.51390	.53954	IPG028SC
59	G089-11A	.48742	53.052	.62565	.46375	.51800	3.7175	.74940	1.7655	G089-11A
60	G089-11	-.00093	.28419	.12757	-.00252	.04760	3.2620	.25493	1.2796	G089-11
61	G089-11J	-.00003	.02989	.02546	-.00041	.00858	.65109	.05084	.25322	G089-11J
62	G089-11M	.50064	53.958	.68694	.46530	.52433	4.7591	.85499	1.9159	G089-11M
63	G089-11S	.49643	54.100	.68635	.46000	.52508	4.6759	.84593	1.8920	G089-11S
64	G089-01	-.00079	.36222	.65751	-.00226	.07879	2.7121	.21507	5.0681	G089-01
65	Blank	.00001	-.02711	.00001	-.00010	-.00017	.00018	-.00006	-.00001	Blank
66	CCV5	.51017	63.240	.51457	2.4007	.49428	.50889	1.4873	2.5889	CCV5
67	CCB5	.00003	-.00176	-.00002	-.00040	-.00072	.00021	.00001	.00150	CCB5
68	G089-02	-.00075	.29003	.51954	-.00273	.05663	2.8076	.22222	3.8800	G089-02
69	G089-03	-.00005	.27927	.55488	-.00248	.05844	2.8873	.21373	4.0937	G089-03
70	G089-04	-.00062	.36548	.54990	-.00380	.05301	2.5623	.20630	3.9190	G089-04
71	G089-05	-.00085	.31021	.16691	-.00248	.05067	3.1000	.23488	3.0261	G089-05
72	G089-06	-.00095	.27778	.14681	-.00199	.04936	3.0590	.24189	1.7948	G089-06
73	G089-07	-.00099	.26772	.15162	-.00199	.05077	2.8984	.23133	1.8009	G089-07
74	G089-08	-.00063	.31544	.23065	-.00209	.05523	2.9229	.22065	2.9304	G089-08
75	G089-09	-.00086	.29650	.20732	-.00230	.05393	3.7566	.27622	2.5856	G089-09
76	G089-10	-.00067	.22869	.15165	-.00225	.05536	2.8132	.21150	2.5923	G089-10
77	Blank	-.00007	-.03661	.00001	-.00041	-.00024	.00136	-.00012	.00021	Blank
78	CCV6	.51276	64.223	.52321	2.4216	.48940	.51636	1.4838	2.6001	CCV6
79	CCB6	.00008	.00025	.00003	.00001	-.00062	.00039	.00012	.00190	CCB6
80	G077-05	-.00048	.59786	.09310	-.00377	.04602	1.3647	.28683	11.220	G077-05
81	G077-09	-.00028	.72863	.12797	-.00343	.04708	1.0685	.30743	12.203	G077-09
82	G077-16	-.00006	.62166	.16045	-.00643*	.04669	1.7036	.58123	23.208	G077-16
83	Blank	-.00002	-.03690	.00007	-.00048	-.00061	.00084	.00000	.00124	Blank
84	CCV7	.50843	63.810	.52014	2.3905	.49256	.50739	1.4795	2.5885	CCV7
85	CCB7	.00004	-.00076	.00010	.00006	-.00048	.00063	-.00002	.00165	CCB7
86	IPG029SB	-.00004	-.01556	.00014	-.00174	.04040	.00061	.00003	.00467	IPG029SB
87	IPG029SL	.49048	54.700	.52610	.48690	.52882	.53496	.51438	.54275	IPG029SL
88	IPG029SC	.47794	53.254	.51053	.47219	.51260	.51793	.50024	.52648	IPG029SC
89	G088-20A	.49061	54.153	.92822	.45618	.53230	3.4189	.73418	4.7016	G088-20A
90	G088-20	-.00005	.38479	.43354	-.00166	.06258	2.9683	.24319	4.3042	G088-20
91	G088-20J	-.00011	.04966	.08920	-.00038	.01246	.61201	.05074	.89125	G088-20J
92	G088-20M	.50224	55.038	.97604	.46210	.53936	3.8161	.79824	4.9559	G088-20M
93	G088-20S	.49960	54.724	.98015	.45627	.53559	3.8442	.79737	4.8838	G088-20S
94	G088-01	.00170	2.0448	.43048	-.00270	.08006	1.1756	.17739	74.734*	G088-01
95	Blank	.00011	-.02675	.00011	-.00030	-.00030	.00074	.00002	.00351	Blank
96	CCV8	.50429	64.153	.51997	2.3766	.48032	.50715	1.4511	2.5918	CCV8
97	CCB8	.00012	-.00273	.00020	.00039	-.00053	.00090	-.00003	.00556	CCB8
98	G088-02	.00143	2.0666	.41114	-.00220	.08574	1.1390	.17274	71.330*	G088-02
99	G088-03	.00015	.55894	.44031	-.00206	.05570	.54000	.13811	67.912*	G088-03
100	G088-04	.00069	1.0342	.26910	-.00249	.10379	.66765	.15809	66.135*	G088-04
101	G088-05	.00048	1.0620	.35228	-.00326	.14018	.70628	.16304	60.677*	G088-05
102	G088-06	-.00047	.31083	.12885	-.00303	.04736	1.3073	.26921	3.7113	G088-06
103	G088-07	-.00035	.40673	.23216	-.00456	.05834	1.3037	.27461	5.4614	G088-07
104	G088-08	-.00018	.33897	.17484	-.00305	.05130	1.3996	.28226	3.1730	G088-08
105	G088-09	-.00022	.23538	.17333	-.00403	.04999	1.5498	.24711	2.0896	G088-09
106	G088-10	-.00022	.17617	.14502	-.00324	.04823	1.4982	.24958	1.5270	G088-10
107	Blank	.00014	-.03960	-.00004	-.00015	-.00039	.00093	-.00008	.00017	Blank
108	CCV9	.50749	64.661	.52266	2.3997	.48410	.50800	1.4640	2.5472	CCV9
109	CCB9	.00012	-.01324	.00009	.00004	-.00044	.00024	.00021	.00398	CCB9
110	G088-11	-.00007	.31044	.14843	-.00378	.05066	1.0446	.24619	5.6061	G088-11
111	G088-12	-.00016	.31887	.15316	-.00383	.05377	1.1008	.24380	5.4227	G088-12

112	G088-13	-.00023	.24313	.15695	-.00331	.04921	1.0699	.24696	3.1917	G088-13
113	G088-14	-.00042	.33217	.22154	-.00292	.04828	.93148	.24668	9.2089	G088-14
114	G088-15	-.00007	.48717	.31972	-.00314	.08176	1.0390	.22035	23.206	G088-15
115	G088-16	.00034	.86241	.20981	-.00231	.06557	.60365	.13590	84.659*	G088-16
116	G088-17	-.00147	.97716	.85633	-.00338	.05042	1.4552	.16000	6.6546	G088-17
117	G088-18	-.00108	1.0037	.73423	-.00335	.04839	1.2150	.12967	4.6478	G088-18
118	G088-19	-.00008	.54397	.41127	-.00318	.11567	2.7103	.22533	6.2150	G088-19
119	Blank	-.00009	-.02207	.00008	-.00090	-.00053	.00121	.00001	.00029	Blank
120	CCV10	.50689	65.809	.53152	2.4055	.47857	.51788	1.4637	2.5582	CCV10
121	CCB10	-.00012	.00878	.00019	-.00054	-.00072	.00061	.00003	.00409	CCB10
122	Al 400	-.00006	.01766	.00059	-.00009	-.00019	.00256	-.00003	-.00056	Al 400
123	Blank	-.00009	-.01062	.00001	-.00037	-.00036	-.00030	-.00005	.00085	Blank
124	Sb 20	.00008	-.01474	.00005	-.00017	-.00035	.00079	-.00010	-.00049	Sb 20
125	Blank	-.00010	-.02246	.00008	-.00079	-.00089	.00020	-.00006	.00112	Blank
126	As 25	-.00001	-.01364	-.00008	-.00034	-.00032	-.00041	-.00004	-.00045	As 25
127	Blank	-.00010	-.01306	-.00005	-.00064	-.00069	-.00041	-.00014	-.00049	Blank
128	Ba 50	-.00004	-.00714	.00001	-.00054	-.00071	-.00007	-.00010	-.00031	Ba 50
129	Blank	.00008	-.01670	.00011	-.00042	-.00048	-.00038	-.00016	-.00062	Blank
130	Be 20	-.00014	-.01838	.00025	-.00042	-.00004	.00060	-.00015	-.00046	Be 20
131	Blank	.00003	-.01797	.00011	-.00091	-.00055	.00016	-.00022	-.00064	Blank
132	CCV11	.51187	66.542*	.53235	2.4364	.48108	.52033	1.4625	2.5454	CCV11
133	CCB11	.00000	.00872	.00018	.00019	-.00015	.00127	.00008	.00398	CCB11
134	B 20	-.00017	-.00433	.00012	-.00039	-.00046	.00031	-.00003	-.00070	B 20
135	Blank	-.00008	-.00695	-.00012	-.00070	-.00071	-.00034	-.00019	-.00064	Blank
136	Cd 20	-.00012	-.00450	-.00006	-.00055	-.00046	.00012	-.00002	.00000	Cd 20
137	Blank	-.00001	-.00874	-.00005	-.00060	-.00039	.00019	-.00024	-.00005	Blank
138	Ca 1000	-.00046	.02783	.00238	-.00112	-.00070	-.01021*	-.00039	.00317	Ca 1000
139	Blank	-.00007	-.00462	-.00008	-.00102	-.00019	.00082	-.00023	.00183	Blank
140	Cr 20	.00004	-.03136	.00017	.00081	-.00075	.00777	.00050	-.00145	Cr 20
141	Blank	.00003	-.01262	.00002	-.00001	-.00032	.00095	.00006	.00198	Blank
142	Co 50	.00007	.00065	.00000	.01562	.00042	.00013	.00002	-.00062	Co 50
143	Blank	.00001	-.00764	.00017	.00012	-.00058	.00059	-.00001	.00196	Blank
144	CCV12	.50795	66.874*	.53659	2.4052	.47820	.52328	1.4637	2.5603	CCV12
145	CCB12	.00005	.00885	.00012	-.00030	-.00041	.00021	-.00001	.00320	CCB12
146	Cu 25	.00045	-.00606	.00011	-.00007	.00009	.00119	-.00015	-.00042	Cu 25
147	Blank	.00006	-.00956	.00002	-.00023	-.00043	.00076	-.00009	.00209	Blank
148	Fe 500	.00083	-.01904	.00058	-.00434	.00264	.00018	.00013	.00017	Fe 500
149	Blank	.00001	-.02132	.00000	-.00016	-.00047	-.00010	-.00019	.00225	Blank
150	Pb 100	.00003	-.01042	.00008	-.00021	-.00060	.00054	-.00001	.00153	Pb 100
151	Blank	-.00006	-.02262	.00001	-.00032	-.00045	-.00046	.00001	.00230	Blank
152	Li 50	-.00007	-.00516	.00036	-.00032	-.00048	.00072	-.00012	-.00047	Li 50
153	Blank	.00005	-.00778	.00010	-.00072	-.00052	.00040	-.00012	.00215	Blank
154	Mg 1000	-.00002	.06293	.00031	-.00011	-.00049	-.00034	-.00172	.00040	Mg 1000
155	Blank	.00002	.01505	.00007	-.00012	-.00055	-.00003	-.00021	.00216	Blank
156	CCV13	.51237	68.143*	.54083	2.4061	.47636	.52421	1.4543	2.5531	CCV13
157	CCB13	-.00012	.01916	.00002	.00005	-.00053	.00032	-.00011	.00376	CCB13
158	Mn 50	-.00119	.00119	.00000	.00652	-.00088	.00075	-.00093	-.00069	Mn 50
159	Blank	-.00009	-.00572	-.00001	-.00059	-.00045	.00032	-.00016	-.00008	Blank
160	Mo 15	-.00097	.03165	-.00006	-.01255*	-.00059	.00030	.01373	-.00400	Mo 15
161	Blank	.00000	-.00933	.00016	.00004	-.00093	.00047	-.00022	.00012	Blank
162	K 750	.00019	.05430	.00003	-.00002	-.00039	.00010	-.00020	-.00013	K 750
163	Blank	.00011	.02565	.00012	-.00044	-.00054	.00063	-.00026	-.00012	Blank
164	Ni 50	-.00013	.00689	-.00013	-.00016	-.00054	-.00037	.00004	-.00035	Ni 50
165	Blank	.00010	-.00998	.00001	-.00064	-.00080	.00001	-.00016	.00018	Blank
166	Se 20	.00005	-.01341	.00003	-.00054	.05464	.00057	-.00001	-.00005	Se 20
167	Blank	-.00004	-.00701	-.00004	-.00008	-.00040	-.00025	-.00014	.00213	Blank
168	CCV14	.51201	67.722*	.54025	2.4416	.47793	.52499	1.4622	2.5579	CCV14

169	CCB14	.00004	.01000	.00013	-.00046	-.00029	.00056	-.00008	.00458	CCB14
170	Ag 5	5.0453*	.00120	.00015	.00005	-.00065	.01274	-.00026	-.00066	Ag 5
171	Blank	.00046	-.01279	.00010	-.00010	-.00046	.00053	.00000	.00210	Blank
172	Na 750	.00031	775.40*	.00013	-.00083	-.00110	-.00009	-.00028	-.00037	Na 750
173	Blank	.00022	.30482	-.00015	-.00024	-.00074	.00005	-.00004	-.00069	Blank
174	Sn 25	-.00001	.07609	.00019	-.00053	24.008*	.00004	.00002	-.00018	Sn 25
175	Blank	-.00006	.01941	-.00006	-.00037	.00212	.00077	-.00012	-.00066	Blank
176	Sr 25	.00084	-.00098	26.468*	.00021	.00019	.00015	.00009	.00025	Sr 25
177	Blank	-.00008	-.00551	.00470	-.00022	-.00006	.00033	-.00015	.00199	Blank
178	Tl 50	-.00012	-.00263	.00071	50.209*	.00007	-.00024	-.00015	-.00029	Tl 50
179	Blank	.00008	-.00240	.00025	.00280	-.00022	.00046	-.00017	.00204	Blank
180	CCV15	.49688	68.560*	.54272	-.13707*	.45744	.52260	1.3212*	-1.3213*	CCV15
181	CCB15	-.00003	-.01132	.00001	-.00028	-.00024	.00062	-.00011	.00027	CCB15
182	Ti 25	-.00039	-.01479	.00034	-.00518*	-.00642	25.831*	.00069	-.00163	Ti 25
183	Blank	.00005	-.03760	-.00006	-.00039	-.00038	.00678	.00001	.00193	Blank
184	V 10	.00354	-.03697	-.00017	.00760	-.00072	.00064	9.6207*	-.00092	V 10
185	Blank	-.00005	-.03723	-.00006	-.00018	-.00023	-.00019	.00092	.00205	Blank
186	Zn 40	-.00002	.02776	-.00001	-.00072	-.00020	-.00004	-.00006	37.389*	Zn 40
187	Blank	.00005	-.03479	-.00005	-.00052	-.00027	.00091	-.00010	.00340	Blank
188	CCV16	.50772	67.509*	.53845	2.3991	.47170	.52182	1.4447	2.5391	CCV16
189	CCB16	.00005	-.01216	.00020	.00034	-.00047	.00020	.00003	-.00023	CCB16
190	TEST1	-.00019	48.298	.91254	-.00070	-.00022	.00046	.00560	.04271	TEST1
191	TEST2	.52290	104.59	1.4389	.49268	.47307	.53782	.50606	.55935	TEST2
192	TEST3	.53492	106.53	1.4655	.50645	.48177	.54470	.51846	.56996	TEST3
INDX	LSID	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	LSID

ID8G012 Section 3 of 3

EMAX LABORATORIES, INC.

DIGESTION LOG
for
ICP METALS

Note: For samples, relevant QCs/Standards digested, refer to attached digestion sequence.

Comments:

Book #: EIP-101
Batch: 1PG0285
Matrix: SOIL
Digestor ID:

SOP #	Rev. #
☐ EMAX-3005	4
☐ EMAX-3010	5
☑ EMAX-3050	4
☐ EMAX-200.7	2
☐ EMAX-	

Start	Temp	End	Temp
	95 °C		94 °C

Standards	ID	Amount Added (ml)
LCS-1	SM1A-013-02-07	0.5
LCS-2	SM1A-13-02-12	0.5
LCS-3	SM1A-013-04-11	1.0
MS	same spike sol and vol as LCS1, LCS2, LCS3	
Reagent	**Lot# / ID**	**Amount Added (ml)**
HNO_3	SW1A-04-361	10
HCl	SW1A-04-348	5+5
H_2O_2	SW1A-04-301	10
HNO3(1:1)	SMSB-02-171	10

Digestate Location	ICP
Extract Location	
☑ Reagent Water ID:	SMSA-02-061
☑ Thermometer ID:	111241117
☑ Pipette ID:	1CP07
☑ Pipette ID:	1427800035
☐ Pipette ID:	
☐ HNO_3 dispenser checked @ 5.0 ml with Class A volumetric flask	
☐ HCl dispenser checked @ 5.0 ml with Class A volumetric flask	

Prepared By: GG/PP

Standard Added By: GG Witnessed By: PP

Extract Rcvd By: TH Checked By: TH

7124

EMAX LABORATORIES INC

DIGESTION LOG FOR METALS

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Vd(ml)	ExpAmt	ExpVd(ml)	AliquotFctr	Comments
11IPG028S01	IPG028SB	1	g	7/15/11 12:15	100	1	100	1	
11IPG028S02	IPG028SL	1	g	7/15/11 12:15	100	1	100	1	
11IPG028S03	IPG028SC	1	g	7/15/11 12:15	100	1	100	1	
11IPG028S04	G089-01	1.07	g	7/15/11 12:16	100	1	100	0.935	DRIED AND SIEVED
11IPG028S05	G089-02	1.04	g	7/15/11 12:17	100	1	100	0.962	DRIED AND SIEVED
11IPG028S06	G089-03	1.03	g	7/15/11 12:17	100	1	100	0.971	DRIED AND SIEVED
11IPG028S07	G089-04	1.02	g	7/15/11 12:18	100	1	100	0.98	DRIED AND SIEVED
11IPG028S08	G089-05	1.12	g	7/15/11 12:18	100	1	100	0.893	DRIED AND SIEVED
11IPG028S09	G089-06	1.05	g	7/15/11 12:19	100	1	100	0.952	DRIED AND SIEVED
11IPG028S10	G089-07	1.02	g	7/15/11 12:19	100	1	100	0.98	DRIED AND SIEVED
11IPG028S11	G089-08	1	g	7/15/11 12:20	100	1	100	1	DRIED AND SIEVED
11IPG028S12	G089-09	1.11	g	7/15/11 12:20	100	1	100	0.901	DRIED AND SIEVED
11IPG028S13	G089-10	1.01	g	7/15/11 12:21	100	1	100	0.99	DRIED AND SIEVED
11IPG028S14	G089-11	1.1	g	7/15/11 12:21	100	1	100	0.909	DRIED AND SIEVED ✓
11IPG028S15	G089-11M	1.11	g	7/15/11 12:22	100	1	100	0.901	DRIED AND SIEVED
11IPG028S16	G089-11S	1.11	g	7/15/11 12:22	100	1	100	0.901	DRIED AND SIEVED
11IPG028S17	G077-05	1.02	g	7/15/11 12:23	100	1	100	0.98	DRIED AND SIEVED ✓
11IPG028S18	G077-09	1.03	g	7/15/11 12:24	100	1	100	0.971	DRIED AND SIEVED ✓
11IPG028S19	G077-16	1.11	g	7/15/11 12:24	100	1	100	0.901	DRIED AND SIEVED ✓

7/15/11 GG

Vd=digestate volume AliquotFctr=ExpAmt/Aliquot

☑ Digestion Started @ 7/15/11 11:40 Prepared By: GG/PP

☑ Digestion Ended @ 7/15/11 13:51 Checked By: TH

Comments: Date 7/15/11