Ref 25

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

ESAT Controlled Number: GSAT5.17.00964 - pj 30 Dec 09

DATE: December 30, 2009

IEPA
Attn: Mr. Mark Wagner
1001 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: **Sandoval Zinc (IL)**

Case	Lab	Samples	SDG	Matrix
39143	ChemTech	20	ME00T2	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

RECEIVED
JAN 06 2010
IEPA-SOL-FSRS

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Joyner
Data Coordinator
ESAT Region 5 **TechLaw**

Controlled Document

ESAT5.15.00393
GCH
12-29-09

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12/18/09

SUBJECT: Review of Data
Received for review on 11/16/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Sandoval Zinc (IL)

CASE NUMBER: 39143 **SDG NUMBER:** ME00T2

Number and Type of Samples: 20 soils samples

Sample Numbers: ME00T2-T5, T8-T9, W0-W9, X0-X3

Laboratory: ChemTech Consulting **Hrs. for Review:** 18.0 +0.5 +1.5

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered ME00T2-T5, T8-T9, W0-W9, X0-X3, were collected on October 20-21. 2009. The lab received the samples on October 24, 2009 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

On the Traffic Report, it states that the soil samples were preserved with NaOH. No sample results are qualified for this.

No raw data for percent solids was provided. Percent solids data were presented on a computer generated spreadsheet. Percent solids calculations used by the laboratory were frequently rounded incorrectly. Thirteen out of the twenty values reported by the laboratory were rounded up when they should not have been. The incorrectly reported percent solids results can result in low biased sample results. The reported results were corrected on samples ME00T3, ME00T4, ME00T9, ME00W0, ME00W1, ME00W3, ME00W5, ME00W6, ME00W8, ME00X0, ME00X1, ME00X2, ME00X3.

The conversion calculation formula provided in the laboratory case narrative does not include unit values for several of the variables or multipliers within the equation. Reported sample results are calculated correctly.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Mercury

ME00T4, ME00T8, ME00W0, ME00W1, ME00W2, ME00W3, ME00W4, ME00W5, ME00W7, ME00W8, ME00W9, ME00X1, ME00X2, ME00X3

Potassium

ME00W2, ME00W3, ME00W4, ME00W8, ME00W9, ME00X1, ME00X2, ME00X3

Sodium

ME00T3, ME00T4, ME00W2, ME00W3, ME00W4, ME00W5, ME00W7, ME00W8, ME00W9, ME00X0, ME00X2, ME00X3

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Cyanide

ME00T9, ME00W6, ME00X0

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. The required post spike was performed and results were less than or equal to 125%.

Hits are qualified "J"; non-detects are not qualified.

Manganese

ME00T2, ME00T3, ME00T4, ME00T5, ME00T8, ME00T9, ME00W0, ME00W1, ME00W2, ME00W3, ME00W4, ME00W5, ME00W6, ME00W7, ME00W8, ME00W9, ME00X0, ME00X1, ME00X2, ME00X3

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Beryllium

ME00T2, ME00T3, ME00T4, ME00T5, ME00T8, ME00T9, ME00W0, ME00W1, ME00W2, ME00W3, ME00W4, ME00W5, ME00W6, ME00W7, ME00W9, ME00X0, ME00X1, ME00X2, ME00X3

Selenium

ME00T2, ME00T3, ME00T4, ME00T5, ME00T8, ME00T9, ME00W0, ME00W1, ME00W2, ME00W3, ME00W4, ME00W5, ME00W6, ME00W7, ME00W9, ME00X0, ME00X2, ME00X3

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Cadmium

ME00T2, ME00T3, ME00T4, ME00T5, ME00T8, ME00T9, ME00W0, ME00W1, ME00W2, ME00W3, ME00W4, ME00W5, ME00W6, ME00W7, ME00W9, ME00X0, ME00X1, ME00X2, ME00X3

Silver

ME00T2, ME00T3, ME00T4, ME00T5, ME00T8, ME00T9, ME00W0, ME00W1, ME00W2, ME00W3, ME00W4, ME00W5, ME00W6, ME00W7, ME00W9, ME00X0, ME00X2, ME00X3

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference.

Non-detects are qualified "R".

Cadmium

ME00T5

Silver
ME00T5, ME00T9, ME00W0, ME00W6

No defects were found for the serial dilution.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Antimony
ME00T9, ME00W0, ME00W6, ME00W8, ME00W9, ME00X2, ME00X3

Beryllium
ME00W4, ME00W8, ME00X2, ME00X3

Cadmium
ME00T2, ME00W1, ME00W2, ME00W3

Cobalt
ME00W0, ME00W3, ME00W4, ME00W7, ME00W9

Cyanide
ME00T9, ME00W6, ME00X0

Magnesium
ME00T5, ME00W0, ME00W6, ME00W8, ME00X1

Potassium
ME00T4

Selenium
ME00T3, ME00T4, ME00T8, ME00W1, ME00W2, ME00W3, ME00W4, ME00W5, ME00W7, ME00W8, ME00W9, ME00X2, ME00X3

Sodium
ME00T8, ME00T9, ME00W1

Thallium
ME00W0

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00T2
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : D. CONNET
Date : 12/22/2009

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	ME00T2		ME00T3		ME00T4		ME00T5		ME00T8	
Sampling Location :	X101		X102		X103		X104		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/20/2009		10/20/2009		10/20/2009		10/20/2009		10/21/2009	
Time Sampled :										
%Solids :	79.3		77.5		73.3		73.6		65.1	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9940		5970		9380		4150		8020	
ANTIMONY	81.4		20.4		22.9		6.8		13.8	
ARSENIC	34.2		11.1		15.7		11.9		9.1	
BARIUM	377		287		1290		563		239	
BERYLLIUM	2.3	J+	0.85	J+	0.73	J+	1.5	J+	1.0	J+
CADMIUM	0.16	J-	1.3	J-	0.68	UJ	0.55	R	0.92	J-
CALCIUM	9060		30100		2870		1830		8030	
CHROMIUM	19.4		12.4		13.4		17.0		15.8	
COBALT	9.0		6.2		8.3		6.2		7.2	
COPPER	780		289		444		110		261	
IRON	49800		18300		16000		75700		22900	
LEAD	5130		1070		826		314		853	
MAGNESIUM	766		11700		1340		289	J	971	
MANGANESE	244	J	557	J	744	J	80.2	J	403	J
MERCURY	0.24		0.41		0.14	U	0.62		0.21	U
NICKEL	58.9		36.2		38.6		21.4		40.5	
POTASSIUM	804		639		564	J	2700		1050	
SELENIUM	6.7	J+	3.1	J+	2.1	J+	10.9	J+	3.4	J+
SILVER	1.3	UJ	1.1	UJ	1.4	UJ	1.1	R	1.3	UJ
SODIUM	978		556	U	682	U	1740		298	J
THALLIUM	3.2	U	2.8	U	3.4	U	4.1		3.2	U
VANADIUM	41.3		21.2		27.7		46.1		33.2	
ZINC	6140		2330		1930		247		2680	
CYANIDE	3.0	U	3.2	U	3.3	U	3.4	U	3.8	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00T2
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : D. CONNET
Date : 12/22/2009

Sample Number :	ME00T9		ME00W0		ME00W1		ME00W2		ME00W3	
Sampling Location :	X106		X107		X108		X109		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/21/2009		10/21/2009		10/21/2009		10/21/2009		10/21/2009	
Time Sampled :										
%Solids :	72.6		76.5		76.5		75.3		77.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9210		7930		7600		7870		8150	
ANTIMONY	6.0	J	4.4	J	18.7		10.2		8.0	
ARSENIC	12.7		9.0		17.2		10.5		7.3	
BARIUM	827		487		243		164		169	
BERYLLIUM	1.8	J+	2.2	J+	0.94	J+	0.72	J+	0.62	J+
CADMIUM	1.2	J-	0.65	UJ	0.37	J-	0.35	J-	0.41	J-
CALCIUM	6110		7340		7600		5130		4390	
CHROMIUM	25.8		15.8		25.3		10.8		11.8	
COBALT	9.2		5.9	J	7.4		5.2		5.0	J
COPPER	147		91.7		319		89.6		144	
IRON	41900		40800		27100		12700		13100	
LEAD	1140		163		1060		493		401	
MAGNESIUM	940		505	J	1330		1530		956	
MANGANESE	635	J	168	J	766	J	491	J	542	J
MERCURY	2.3		0.16	U	0.30	U	0.18	U	0.16	U
NICKEL	27.3		18.5		39.7		16.1		25.8	
POTASSIUM	1170		1320		1190		511	U	513	U
SELENIUM	6.1	J+	6.5	J+	3.9	J	1.8	J+	2.0	J+
SILVER	1.2	R	1.3	R	1.2	U	1.0	UJ	1.0	UJ
SODIUM	495	J	933		257	J	511	U	513	U
THALLIUM	2.9	U	0.42	J	3.1	U	2.6	U	2.6	U
VANADIUM	39.0		47.1		29.0		22.5		23.4	
ZINC	1260		315		7050		1800		957	
CYANIDE	0.47	J-	3.3	U	3.1	U	3.3	U	3.1	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00T2
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : D. CONNET
Date : 12/22/2009

Sample Number :	ME00W4		ME00W5		ME00W6		ME00W7		ME00W8	
Sampling Location :	X111		X112		X113		X114		X115	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/21/2009		10/21/2009		10/21/2009		10/21/2009		10/21/2009	
Time Sampled :										
%Solids :	77.4		73.9		73.0		75.0		76.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6050		7930		7670		7990		5820	
ANTIMONY	6.6		74.5		4.1	J	5.6	U	6.9	J
ARSENIC	8.2		16.5		7.4		4.8		7.2	
BARIUM	118		315		341		102		549	
BERYLLIUM	0.41	J+	0.92	J+	2.1	J+	0.50	J+	0.41	J
CADMIUM	0.49	UJ	1.6	J-	0.55	UJ	0.47	UJ	0.66	U
CALCIUM	2190		9190		4880		1140		1900	
CHROMIUM	9.6		15.1		14.7		9.9		8.3	
COBALT	4.7	J	7.9		8.7		3.7	J	14.8	
COPPER	95.3		1850		66.5		11.2		95.7	
IRON	12000		23300		35100		10600		11600	
LEAD	284		1980		202		20.1		403	
MAGNESIUM	662		1200		527	J	763		635	J
MANGANESE	741	J	741	J	495	J	334	J	3760	J
MERCURY	0.19	U	0.16	U	1.0		0.12	U	0.12	U
NICKEL	20.7		120		22.9		5.7		9.1	
POTASSIUM	489	U	614		1010		502		655	U
SELENIUM	1.8	J+	3.1	J+	4.8	J+	1.6	J+	1.9	J
SILVER	0.98	UJ	1.0	UJ	1.1	R	0.94	UJ	1.3	U
SODIUM	489	U	520	U	796		469	U	655	U
THALLIUM	2.4	U	2.6	U	2.8	U	2.3	U	3.3	U
VANADIUM	22.5		30.6		43.0		22.0		28.1	
ZINC	899		4290		784		61.9		383	
CYANIDE	3.0	U	3.2	U	0.090	J-	3.1	U	3.2	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00T2
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : D. CONNET
Date : 12/22/2009

Sample Number :	ME00W9		ME00X0		ME00X1		ME00X2		ME00X3	
Sampling Location :	X116		X117		X118		X119		X120	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/21/2009		10/21/2009		10/21/2009		10/21/2009		10/21/2009	
Time Sampled :										
%Solids :	77.2		79.5		74.0		75.2		75.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5300		6730		8470		7470		7420	
ANTIMONY	3.4	J	125		915		1.1	J	1.1	J
ARSENIC	7.2		30.0		181		7.2		6.4	
BARIUM	143		265		294		218		158	
BERYLLIUM	0.67	J+	1.0	J+	1.6	J+	0.51	J+	0.49	J+
CADMIUM	0.51	UJ	3.2	J-	2.7	J-	0.56	UJ	0.49	UJ
CALCIUM	1420		2070		4630		960		993	
CHROMIUM	9.4		9.9		14.9		8.9		8.6	
COBALT	3.6	J	7.2		14.9		6.6		6.2	
COPPER	46.8		7900		12800		12.3		11.6	
IRON	14400		21900		103000		13300		12000	
LEAD	333		5000		50000		34.8		35.1	
MAGNESIUM	517		686		386	J	734		746	
MANGANESE	494	J	853	J	806	J	1420	J	1390	J
MERCURY	0.12	U	1.0		0.26	U	0.12	U	0.13	U
NICKEL	7.2		46.8		97.5		6.5		6.2	
POTASSIUM	514	U	704		483	U	563	U	495	U
SELENIUM	2.1	J+	3.5	J+	9.9		1.8	J+	1.7	J+
SILVER	1.0	UJ	1.3	J-	8.9		1.1	UJ	0.99	UJ
SODIUM	514	U	484	U	539		563	U	495	U
THALLIUM	2.6	U	2.4	U	2.4	U	2.8	U	2.5	U
VANADIUM	25.5		27.0		27.5		28.6		24.9	
ZINC	346		9270		37500		92.3		99.7	
CYANIDE	3.0	U	0.17	J-	3.1	U	3.1	U	3.3	U

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39143
DAS No:
SDG No: ME00T2

L 6

Date Shipped:	10/22/2009
Carrier Name:	UPS
Airbill:	1Z6215892210084382
Shipped to:	ChemTech Consulting Group 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Sampler Signature: Ken Corkill

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	10-22-09 / 12:00	[signature]	
2			
3			
4		SARNAC MEINA	10/24/09 11:30

For Lab Use Only

Lab Contract No: EPW08065
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00T2	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105184 (NaOH) (1)	X101	S: 10/20/2009	15:30		
ME00T3	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105185 (NaOH) (1)	X102	S: 10/20/2009	16:00		
ME00T4	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105186 (NaOH) (1)	X103	S: 10/20/2009	17:00		
ME00T5	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105187 (NaOH) (1)	X104	S: 10/20/2009	17:30		
ME00T8	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105188 (NaOH) (1)	X105	S: 10/21/2009	9:30		
ME00T9	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105190 (NaOH) (1)	X106	S: 10/21/2009	10:00		
ME00W0	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105191 (NaOH) (1)	X107	S: 10/21/2009	10:30		
ME00W1	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105192 (NaOH) (1)	X108	S: 10/21/2009	11:00		
ME00W2	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105194 (NaOH) (1)	X109	S: 10/21/2009	11:30		
ME00W3	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105195 (NaOH) (1)	X110	S: 10/21/2009	12:45		

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Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 32455
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

ICP, Hg,CN = CLP ICP Metals, Hg, CN

R Number: 5-162075208-102209-0002

R provides preliminary results. Requests for preliminary results will increase analytical costs.
end Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39143
DAS No:
SDG No: ME00T2

L 10

Date Shipped:	10/22/2009
Carrier Name:	UPS
Airbill:	1Z6215892210084382
Shipped to:	ChemTech Consulting Group 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	10-22-09 / 12:00		
2			
3			
4		SOMNAC / MEHTA	10/24/09 11:30

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No: EPW08065
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00W4	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105196 (NaOH) (1)	X111	S: 10/21/2009 13:15		
ME00W5	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105197 (NaOH) (1)	X112	S: 10/21/2009 13:45		
ME00W6	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105198 (NaOH) (1)	X113	S: 10/21/2009 14:15		
ME00W7	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105199 (NaOH) (1)	X114	S: 10/21/2009 15:00		
15 ME00W8	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105200 (NaOH) (1)	X115	S: 10/21/2009 15:15		
ME00W9	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105301 (NaOH) (1)	X116	S: 10/21/2009 16:00		
ME00X0	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105302 (NaOH) (1)	X117	S: 10/21/2009 16:15		
ME00X1	Soil (0"-12")/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105303 (NaOH) (1)	X118	S: 10/21/2009 16:30		
ME00X2	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105304 (NaOH) (1)	X119	S: 10/21/2009 16:45		
ME00X3	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105305 (NaOH) (1)	X120	S: 10/21/2009 16:45		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 32855
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y
ICP, Hg,CN = CLP ICP Metals, Hg, CN				

TR Number: 5-162075208-102209-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME00T2
CASE # 39143
CONTRACT # EPW08065
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT #A4837

A. Number of Samples and Date of Receipt

20 Soil Samples were delivered to the laboratory intact on 10/24/09

B. Parameters

Test requested for Metals CLP FULL (by ICP-AES), Hg & CN.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

E. Corrective Action taken for above:

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.4

G. Calculation:

Calculation example for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10 (1.0 X10 or 0.50 X

20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10.2 (1.02 X 10 or 0.51 X 20)
(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

Calculation example for Hg Soil Sample:

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1/ 2 (0.2 X 10)
(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 2.1 (0.21 X 10)
(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

Calculation example for CN Soil Sample:

Conversion of Results from Ug/L to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in Ug/L for CN) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in CN Soil Prep = 1/20 (1 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Or

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 20.2 (1.01 X 20)
(if 1.01 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Etc.

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Manganese. Duplicate sample did meet requirements except for Manganese & Mercury. Serial Dilution did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date 11/13/09 Title: Document Control Officer

NOV 1 6 2009

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COVER PAGE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME00T2	A4837-01
ME00T3	A4837-02
ME00T4	A4837-03
ME00T5	A4837-04
ME00T8	A4837-05
ME00T9	A4837-06
ME00W0	A4837-07
ME00W0D	A4837-08
ME00W0S	A4837-09
ME00W1	A4837-10
ME00W2	A4837-11
ME00W3	A4837-12
ME00W4	A4837-13
ME00W5	A4837-14
ME00W6	A4837-15
ME00W7	A4837-16
ME00W8	A4837-17
ME00W9	A4837-18
ME00X0	A4837-19
ME00X1	A4837-20
ME00X2	A4837-21
ME00X3	A4837-22

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred V Reyes Name: MILDRED V. REYES

Date: 11/13/09 Title: DOCUMENT CONTROL OFFICER

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-01

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 79.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9940			P
7440-36-0	Antimony	81.4			P
7440-38-2	Arsenic	34.2			P
7440-39-3	Barium	377			P
7440-41-7	Beryllium	2.3			P
7440-43-9	Cadmium	0.16	J		P
7440-70-2	Calcium	9060			P
7440-47-3	Chromium	19.4			P
7440-48-4	Cobalt	9.0			P
7440-50-8	Copper	780			P
7439-89-6	Iron	49800			P
7439-92-1	Lead	5130			P
7439-95-4	Magnesium	766			P
7439-96-5	Manganese	244		N*	P
7439-97-6	Mercury	0.24		*	CV
7440-02-0	Nickel	58.9			P
7440-09-7	Potassium	804			P
7782-49-2	Selenium	6.7			P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	978			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	41.3			P
7440-66-6	Zinc	6140			P
57-12-5	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-02

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 77.6

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5970			P
7440-36-0	Antimony	20.3			P
7440-38-2	Arsenic	11.1			P
7440-39-3	Barium	287			P
7440-41-7	Beryllium	0.85			P
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium	30100			P
7440-47-3	Chromium	12.4			P
7440-48-4	Cobalt	6.2			P
7440-50-8	Copper	289			P
7439-89-6	Iron	18200			P
7439-92-1	Lead	1070			P
7439-95-4	Magnesium	11700			P
7439-96-5	Manganese	556		N*	P
7439-97-6	Mercury	0.41		*	CV
7440-02-0	Nickel	36.1			P
7440-09-7	Potassium	638			P
7782-49-2	Selenium	3.1	J		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	315	J		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	21.2			P
7440-66-6	Zinc	2330			P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-03

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 73.4

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9370			P
7440-36-0	Antimony	22.8			P
7440-38-2	Arsenic	15.7			P
7440-39-3	Barium	1280			P
7440-41-7	Beryllium	0.73			P
7440-43-9	Cadmium	0.68	U		P
7440-70-2	Calcium	2870			P
7440-47-3	Chromium	13.3			P
7440-48-4	Cobalt	8.3			P
7440-50-8	Copper	443			P
7439-89-6	Iron	16000			P
7439-92-1	Lead	825			P
7439-95-4	Magnesium	1340			P
7439-96-5	Manganese	743		N*	P
7439-97-6	Mercury	0.14		*	CV
7440-02-0	Nickel	38.6			P
7440-09-7	Potassium	564	J		P
7782-49-2	Selenium	2.1	J		P
7440-22-4	Silver	1.4	U		P
7440-23-5	Sodium	151	J		P
7440-28-0	Thallium	3.4	U		P
7440-62-2	Vanadium	27.6			P
7440-66-6	Zinc	1920			P
57-12-5	Cyanide	3.3	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-04

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 73.6

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4150			P
7440-36-0	Antimony	6.8			P
7440-38-2	Arsenic	11.9			P
7440-39-3	Barium	563			P
7440-41-7	Beryllium	1.5			P
7440-43-9	Cadmium	0.55	U		P
7440-70-2	Calcium	1830			P
7440-47-3	Chromium	17.0			P
7440-48-4	Cobalt	6.2			P
7440-50-8	Copper	110			P
7439-89-6	Iron	75700			P
7439-92-1	Lead	314			P
7439-95-4	Magnesium	289	J		P
7439-96-5	Manganese	80.2		N*	P
7439-97-6	Mercury	0.62		*	CV
7440-02-0	Nickel	21.4			P
7440-09-7	Potassium	2700			P
7782-49-2	Selenium	10.9			P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	1740			P
7440-28-0	Thallium	4.1			P
7440-62-2	Vanadium	46.1			P
7440-66-6	Zinc	247			P
57-12-5	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-05

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 65.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8020			P
7440-36-0	Antimony	13.8			P
7440-38-2	Arsenic	9.1			P
7440-39-3	Barium	239			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.92			P
7440-70-2	Calcium	8030			P
7440-47-3	Chromium	15.8			P
7440-48-4	Cobalt	7.2			P
7440-50-8	Copper	261			P
7439-89-6	Iron	22900			P
7439-92-1	Lead	853			P
7439-95-4	Magnesium	971			P
7439-96-5	Manganese	403		N*	P
7439-97-6	Mercury	0.21		*	CV
7440-02-0	Nickel	40.5			P
7440-09-7	Potassium	1050			P
7782-49-2	Selenium	3.4	J		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	298	J		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	33.2			P
7440-66-6	Zinc	2680			P
57-12-5	Cyanide	3.8	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-06

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 72.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9200			P
7440-36-0	Antimony	6.0	J		P
7440-38-2	Arsenic	12.6			P
7440-39-3	Barium	826			P
7440-41-7	Beryllium	1.8			P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	6100			P
7440-47-3	Chromium	25.8			P
7440-48-4	Cobalt	9.1			P
7440-50-8	Copper	147			P
7439-89-6	Iron	41900			P
7439-92-1	Lead	1140			P
7439-95-4	Magnesium	938			P
7439-96-5	Manganese	634		N*	P
7439-97-6	Mercury	2.3		*	CV
7440-02-0	Nickel	27.2			P
7440-09-7	Potassium	1170			P
7782-49-2	Selenium	6.1			P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	494	J		P
7440-28-0	Thallium	2.9	U		P
7440-62-2	Vanadium	39.0			P
7440-66-6	Zinc	1260			P
57-12-5	Cyanide	0.47	J		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-07

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 76.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7920			P
7440-36-0	Antimony	4.4	J		P
7440-38-2	Arsenic	9.0			P
7440-39-3	Barium	486			P
7440-41-7	Beryllium	2.2			P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	7330			P
7440-47-3	Chromium	15.7			P
7440-48-4	Cobalt	5.9	J		P
7440-50-8	Copper	91.6			P
7439-89-6	Iron	40700			P
7439-92-1	Lead	163			P
7439-95-4	Magnesium	504	J		P
7439-96-5	Manganese	168		N*	P
7439-97-6	Mercury	0.16		*	CV
7440-02-0	Nickel	18.5			P
7440-09-7	Potassium	1320			P
7782-49-2	Selenium	6.5			P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	932			P
7440-28-0	Thallium	0.42	J		P
7440-62-2	Vanadium	47.1			P
7440-66-6	Zinc	314			P
57-12-5	Cyanide	3.3	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-10

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 76.6

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7590			P
7440-36-0	Antimony	18.6			P
7440-38-2	Arsenic	17.2			P
7440-39-3	Barium	243			P
7440-41-7	Beryllium	0.94			P
7440-43-9	Cadmium	0.37	J		P
7440-70-2	Calcium	7590			P
7440-47-3	Chromium	25.2			P
7440-48-4	Cobalt	7.4			P
7440-50-8	Copper	319			P
7439-89-6	Iron	27000			P
7439-92-1	Lead	1060			P
7439-95-4	Magnesium	1330			P
7439-96-5	Manganese	765		N*	P
7439-97-6	Mercury	0.30		*	CV
7440-02-0	Nickel	39.7			P
7440-09-7	Potassium	1180			P
7782-49-2	Selenium	3.9	J		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	256	J		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	29.0			P
7440-66-6	Zinc	7040		D	P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM 1A-IN ILM05.4

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-11

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 75.3

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7870			P
7440-36-0	Antimony	10.2			P
7440-38-2	Arsenic	10.5			P
7440-39-3	Barium	164			P
7440-41-7	Beryllium	0.72			P
7440-43-9	Cadmium	0.35	J		P
7440-70-2	Calcium	5130			P
7440-47-3	Chromium	10.8			P
7440-48-4	Cobalt	5.2			P
7440-50-8	Copper	89.6			P
7439-89-6	Iron	12700			P
7439-92-1	Lead	493			P
7439-95-4	Magnesium	1530			P
7439-96-5	Manganese	491		N*	P
7439-97-6	Mercury	0.18		*	CV
7440-02-0	Nickel	16.1			P
7440-09-7	Potassium	455	J		P
7782-49-2	Selenium	1.8	J		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	127	J		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	1800			P
57-12-5	Cyanide	3.3	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM 1A-IN ILM05.4

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-12

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 77.4

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8140			P
7440-36-0	Antimony	8.0			P
7440-38-2	Arsenic	7.3			P
7440-39-3	Barium	169			P
7440-41-7	Beryllium	0.62			P
7440-43-9	Cadmium	0.41	J		P
7440-70-2	Calcium	4380			P
7440-47-3	Chromium	11.8			P
7440-48-4	Cobalt	5.0	J		P
7440-50-8	Copper	144			P
7439-89-6	Iron	13100			P
7439-92-1	Lead	400			P
7439-95-4	Magnesium	955			P
7439-96-5	Manganese	541		N*	P
7439-97-6	Mercury	0.16		*	CV
7440-02-0	Nickel	25.8			P
7440-09-7	Potassium	384	J		P
7782-49-2	Selenium	2.0	J		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	142	J		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	23.4			P
7440-66-6	Zinc	956			P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-13

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 77.4

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6050			P
7440-36-0	Antimony	6.6			P
7440-38-2	Arsenic	8.2			P
7440-39-3	Barium	118			P
7440-41-7	Beryllium	0.41	J		P
7440-43-9	Cadmium	0.49	U		P
7440-70-2	Calcium	2190			P
7440-47-3	Chromium	9.6			P
7440-48-4	Cobalt	4.7	J		P
7440-50-8	Copper	95.3			P
7439-89-6	Iron	12000			P
7439-92-1	Lead	284			P
7439-95-4	Magnesium	662			P
7439-96-5	Manganese	741		N*	P
7439-97-6	Mercury	0.19		*	CV
7440-02-0	Nickel	20.7			P
7440-09-7	Potassium	368	J		P
7782-49-2	Selenium	1.8	J		P
7440-22-4	Silver	0.98	U		P
7440-23-5	Sodium	117	J		P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	899			P
57-12-5	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-14

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 74.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7920			P
7440-36-0	Antimony	74.4			P
7440-38-2	Arsenic	16.5			P
7440-39-3	Barium	314			P
7440-41-7	Beryllium	0.92			P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	9180			P
7440-47-3	Chromium	15.1			P
7440-48-4	Cobalt	7.8			P
7440-50-8	Copper	1850			P
7439-89-6	Iron	23200			P
7439-92-1	Lead	1970			P
7439-95-4	Magnesium	1190			P
7439-96-5	Manganese	740		N*	P
7439-97-6	Mercury	0.16		*	CV
7440-02-0	Nickel	120			P
7440-09-7	Potassium	613			P
7782-49-2	Selenium	3.1	J		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	278	J		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	30.6			P
7440-66-6	Zinc	4280			P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-15

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 73.1

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7660			P
7440-36-0	Antimony	4.1	J		P
7440-38-2	Arsenic	7.4			P
7440-39-3	Barium	341			P
7440-41-7	Beryllium	2.1			P
7440-43-9	Cadmium	0.55	U		P
7440-70-2	Calcium	4870			P
7440-47-3	Chromium	14.7			P
7440-48-4	Cobalt	8.6			P
7440-50-8	Copper	66.4			P
7439-89-6	Iron	35100			P
7439-92-1	Lead	202			P
7439-95-4	Magnesium	526	J		P
7439-96-5	Manganese	494		N*	P
7439-97-6	Mercury	1.0		*	CV
7440-02-0	Nickel	22.9			P
7440-09-7	Potassium	1010			P
7782-49-2	Selenium	4.8			P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	795			P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	42.9			P
7440-66-6	Zinc	783			P
57-12-5	Cyanide	0.089	J		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-16

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 75.0

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7990			P
7440-36-0	Antimony	5.6	U		P
7440-38-2	Arsenic	4.8			P
7440-39-3	Barium	102			P
7440-41-7	Beryllium	0.50			P
7440-43-9	Cadmium	0.47	U		P
7440-70-2	Calcium	1140			P
7440-47-3	Chromium	9.9			P
7440-48-4	Cobalt	3.7	J		P
7440-50-8	Copper	11.2			P
7439-89-6	Iron	10600			P
7439-92-1	Lead	20.1			P
7439-95-4	Magnesium	763			P
7439-96-5	Manganese	334		N*	P
7439-97-6	Mercury	0.090	J	*	CV
7440-02-0	Nickel	5.7			P
7440-09-7	Potassium	502			P
7782-49-2	Selenium	1.6	J		P
7440-22-4	Silver	0.94	U		P
7440-23-5	Sodium	100	J		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	22.0			P
7440-66-6	Zinc	61.9			P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-17

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5810			P
7440-36-0	Antimony	6.9	J		P
7440-38-2	Arsenic	7.2			P
7440-39-3	Barium	549			P
7440-41-7	Beryllium	0.41	J		P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	1900			P
7440-47-3	Chromium	8.3			P
7440-48-4	Cobalt	14.8			P
7440-50-8	Copper	95.6			P
7439-89-6	Iron	11600			P
7439-92-1	Lead	402			P
7439-95-4	Magnesium	634	J		P
7439-96-5	Manganese	3760		N*	P
7439-97-6	Mercury	0.063	J	*	CV
7440-02-0	Nickel	9.1			P
7440-09-7	Potassium	352	J		P
7782-49-2	Selenium	1.9	J		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	178	J		P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	28.1			P
7440-66-6	Zinc	383			P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00W9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-18

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 77.2

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5300			P
7440-36-0	Antimony	3.4	J		P
7440-38-2	Arsenic	7.2			P
7440-39-3	Barium	143			P
7440-41-7	Beryllium	0.67			P
7440-43-9	Cadmium	0.51	U		P
7440-70-2	Calcium	1420			P
7440-47-3	Chromium	9.4			P
7440-48-4	Cobalt	3.6	J		P
7440-50-8	Copper	46.8			P
7439-89-6	Iron	14400			P
7439-92-1	Lead	333			P
7439-95-4	Magnesium	517			P
7439-96-5	Manganese	494		N*	P
7439-97-6	Mercury	0.091	J	*	CV
7440-02-0	Nickel	7.2			P
7440-09-7	Potassium	265	J		P
7782-49-2	Selenium	2.1	J		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	113	J		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	25.5			P
7440-66-6	Zinc	346			P
57-12-5	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-19

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 79.6

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6720			P
7440-36-0	Antimony	125			P
7440-38-2	Arsenic	30.0			P
7440-39-3	Barium	265			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	3.2			P
7440-70-2	Calcium	2070			P
7440-47-3	Chromium	9.9			P
7440-48-4	Cobalt	7.2			P
7440-50-8	Copper	7890		D	P
7439-89-6	Iron	21800			P
7439-92-1	Lead	5000			P
7439-95-4	Magnesium	686			P
7439-96-5	Manganese	852		N*	P
7439-97-6	Mercury	1.0		*	CV
7440-02-0	Nickel	46.7			P
7440-09-7	Potassium	704			P
7782-49-2	Selenium	3.4			P
7440-22-4	Silver	1.3			P
7440-23-5	Sodium	234	J		P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	26.9			P
7440-66-6	Zinc	9260		D	P
57-12-5	Cyanide	0.17	J		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-20

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 74.1

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8460			P
7440-36-0	Antimony	914			P
7440-38-2	Arsenic	181			P
7440-39-3	Barium	293			P
7440-41-7	Beryllium	1.6			P
7440-43-9	Cadmium	2.7			P
7440-70-2	Calcium	4620			P
7440-47-3	Chromium	14.9			P
7440-48-4	Cobalt	14.8			P
7440-50-8	Copper	12800		D	P
7439-89-6	Iron	103000			P
7439-92-1	Lead	49900		D	P
7439-95-4	Magnesium	385	J		P
7439-96-5	Manganese	805		N*	P
7439-97-6	Mercury	0.26		*	CV
7440-02-0	Nickel	97.4			P
7440-09-7	Potassium	338	J		P
7782-49-2	Selenium	9.9			P
7440-22-4	Silver	8.9			P
7440-23-5	Sodium	538			P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	27.5			P
7440-66-6	Zinc	37500		D	P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-21

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 75.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7460			P
7440-36-0	Antimony	1.1	J		P
7440-38-2	Arsenic	7.2			P
7440-39-3	Barium	218			P
7440-41-7	Beryllium	0.51	J		P
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium	959			P
7440-47-3	Chromium	8.9			P
7440-48-4	Cobalt	6.6			P
7440-50-8	Copper	12.3			P
7439-89-6	Iron	13200			P
7439-92-1	Lead	34.8			P
7439-95-4	Magnesium	733			P
7439-96-5	Manganese	1420		N*	P
7439-97-6	Mercury	0.078	J	*	CV
7440-02-0	Nickel	6.5			P
7440-09-7	Potassium	389	J		P
7782-49-2	Selenium	1.8	J		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	105	J		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	28.5			P
7440-66-6	Zinc	92.2			P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Lab Sample ID: A4837-22

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 75.5

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7410			P
7440-36-0	Antimony	1.1	J		P
7440-38-2	Arsenic	6.4			P
7440-39-3	Barium	158			P
7440-41-7	Beryllium	0.49	J		P
7440-43-9	Cadmium	0.49	U		P
7440-70-2	Calcium	991			P
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt	6.2			P
7440-50-8	Copper	11.6			P
7439-89-6	Iron	12000			P
7439-92-1	Lead	35.0			P
7439-95-4	Magnesium	745			P
7439-96-5	Manganese	1390		N*	P
7439-97-6	Mercury	0.091	J	*	CV
7440-02-0	Nickel	6.2			P
7440-09-7	Potassium	420	J		P
7782-49-2	Selenium	1.7	J		P
7440-22-4	Silver	0.99	U		P
7440-23-5	Sodium	125	J		P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	24.9			P
7440-66-6	Zinc	99.6			P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	10.000	U	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Manganese	15.000	U	15.000	U	15.000	U	15.000	U	1.500	U	P
Mercury	0.200	U	0.200	U	0.072	J	0.102	J	0.031	J	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	4.000	U	P
Potassium	5000.000	U	5000.000	U	89.598	J	5000.000	U	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Sodium	-98.949	J	-85.945	J	-98.042	J	112.275	J	-9.742	J	P
Thallium	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide	-5.415	J	-5.890	J	-3.855	J	-4.924	J	-0.239	J	AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U	200.000	U			P
Antimony			60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			5.000	U	5.000	U	5.000	U			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U	2.500	U	P
Iron			100.000	U	100.000	U	100.000	U			P
Lead			10.000	U	10.000	U	10.000	U	1.000	U	P
Magnesium			5000.000	U	5000.000	U	5000.000	U			P
Manganese			15.000	U	15.000	U	15.000	U	1.500	U	P
Mercury			0.200	U	0.200	U	0.078	J			CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			5000.000	U	5000.000	U	5000.000	U			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			5000.000	U	-90.118	J	111.113	J			P
Thallium			25.000	U	25.000	U	25.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide			-5.338	J	-3.963	J	-4.493	J			AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U	200.000	U			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			5.000	U	5.000	U	5.000	U			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			100.000	U	100.000	U	100.000	U			P
Lead			-2.342	J	-2.201	J	10.000	U			P
Magnesium			5000.000	U	5000.000	U	5000.000	U			P
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			5000.000	U	5000.000	U	125.491	J			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			152.243	J	5000.000	U	5000.000	U			P
Thallium			25.000	U	25.000	U	25.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U					P
Antimony			60.000	U	60.000	U					P
Arsenic			10.000	U	10.000	U					P
Barium			200.000	U	200.000	U					P
Beryllium			5.000	U	5.000	U					P
Cadmium			5.000	U	5.000	U					P
Calcium			5000.000	U	5000.000	U					P
Chromium			10.000	U	10.000	U					P
Cobalt			50.000	U	50.000	U					P
Copper			25.000	U	25.000	U					P
Iron			100.000	U	100.000	U					P
Lead			10.000	U	10.000	U					P
Magnesium			5000.000	U	5000.000	U					P
Manganese			15.000	U	15.000	U					P
Mercury											NR
Nickel			40.000	U	40.000	U					P
Potassium			5000.000	U	93.514	J					P
Selenium			35.000	U	35.000	U					P
Silver			10.000	U	10.000	U					P
Sodium			-104.147	J	82.139	J					P
Thallium			25.000	U	25.000	U					P
Vanadium			50.000	U	50.000	U					P
Zinc			60.000	U	60.000	U					P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony	60.000	U	60.000	U	60.000	U	60.000	U			P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper	25.000	U	25.000	U	25.000	U	25.000	U			P
Iron											NR
Lead	10.000	U	10.000	U	10.000	U	10.000	U			P
Magnesium											NR
Manganese	15.000	U	15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc	60.000	U	60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper			25.000	U	25.000	U	25.000	U			P
Iron											NR
Lead			10.000	U	10.000	U	10.000	U			P
Magnesium											NR
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper			25.000	U	25.000	U	25.000	U			P
Iron											NR
Lead			10.000	U	10.000	U	10.000	U			P
Magnesium											NR
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony			60.000	U	60.000	U					P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper			25.000	U	25.000	U					P
Iron											NR
Lead			10.000	U	10.000	U					P
Magnesium											NR
Manganese			15.000	U	15.000	U					P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			60.000	U	60.000	U					P
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000	250000	102	250000	104	251000	103	251000	104
Antimony	0	589	1.5		602	102	0.65		596	101
Arsenic	0	101	0.83		100	99	3.8		98.6	98
Barium	2.0	495	4.3	215	525	106	3.8	190	522	105
Beryllium	0	475	1.7		503	106	1.2		515	108
Cadmium	0	940	-5.3		982	104	-5.2		976	104
Calcium	235000	231000	250000	106	249000	108	249000	106	248000	107
Chromium	43.0	511	44.5	103	527	103	44.7	104	537	105
Cobalt	4.0	461	5.6	140	491	107	5.8	145	489	106
Copper	23.0	548	25.2	110	521	95	20.7	90	521	95
Iron	95600	94800	96900	101	96300	102	96600	101	96500	102
Lead	10.0	61.0	8.2	82	56.9	93	10.9	109	58.7	96
Magnesium	248000	251000	259000	104	257000	102	258000	104	257000	102
Manganese	19.0	502	21.4	113	512	102	21.7	114	517	103
Nickel	21.0	984	23.2	110	1010	103	22.3	106	996	101
Potassium	0	0	-33.5		-82.7		-32.4		-58.1	
Selenium	0	53.0	4.3		60.8	115	7.3		61.1	115
Silver	0	206	-5.6		206	100	-5.7		207	100
Sodium	0	0	991		1010		949		1130	
Thallium	0	103	-1.3		99.7	97	-0.36		98.0	95
Vanadium	0	494	0.44		475	96	0.70		482	98
Zinc	28.0	1030	34.2	122	1050	102	35.5	127	1030	100

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					251000	103	249000	103
Antimony	0	589					0.69		590	100
Arsenic	0	101					0.56		102	101
Barium	2.0	495					4.1	205	522	105
Beryllium	0	475					1.5		511	108
Cadmium	0	940					-5.2		961	102
Calcium	235000	231000					248000	106	248000	107
Chromium	43.0	511					44.5	103	527	103
Cobalt	4.0	461					5.5	138	483	105
Copper	23.0	548					23.3	101	515	94
Iron	95600	94800					95800	100	95400	101
Lead	10.0	61.0					10	100	56.2	92
Magnesium	248000	251000					256000	103	256000	102
Manganese	19.0	502					21.7	114	512	102
Nickel	21.0	984					23.1	110	979	99
Potassium	0	0					-52.0		-117	
Selenium	0	53.0					8.9		54.9	104
Silver	0	206					-5.6		205	100
Sodium	0	0					1010		932	
Thallium	0	103					-0.73		97.1	94
Vanadium	0	494					0.48		482	98
Zinc	28.0	1030					33.2	119	1010	98

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					257000	105	260000	108
Antimony	0	589					4.1		592	101
Arsenic	0	101					2.5		104	103
Barium	2.0	495					4.4	220	536	108
Beryllium	0	475					1.7		542	114
Cadmium	0	940					-5.4		938	100
Calcium	235000	231000					252000	107	254000	110
Chromium	43.0	511					45.8	107	543	106
Cobalt	4.0	461					5.6	140	485	105
Copper	23.0	548					23.6	103	532	97
Iron	95600	94800					95400	100	95900	101
Lead	10.0	61.0					8.0	80	59.5	98
Magnesium	248000	251000					257000	104	258000	103
Manganese	19.0	502					21.7	114	528	105
Nickel	21.0	984					21.9	104	953	97
Potassium	0	0					-80.7		-72.3	
Selenium	0	53.0					11.1		56.3	106
Silver	0	206					-6.6		207	100
Sodium	0	0					1010		818	
Thallium	0	103					-0.047		97.2	94
Vanadium	0	494					0.68		512	104
Zinc	28.0	1030					33.2	119	998	97

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					258000	106	264000	110
Antimony	0	589					2.8		603	102
Arsenic	0	101					-2.5		104	103
Barium	2.0	495					5.7	285	538	109
Beryllium	0	475					1.6		556	117
Cadmium	0	940					-5.4		920	98
Calcium	235000	231000					252000	107	255000	110
Chromium	43.0	511					46.0	107	551	108
Cobalt	4.0	461					5.6	140	484	105
Copper	23.0	548					24.7	107	537	98
Iron	95600	94800					94300	99	95500	101
Lead	10.0	61.0					10.5	105	56.2	92
Magnesium	248000	251000					255000	103	257000	102
Manganese	19.0	502					21.5	113	531	106
Nickel	21.0	984					21.8	104	936	95
Potassium	0	0					-48.8		-66.5	
Selenium	0	53.0					9.7		53.1	100
Silver	0	206					-6.9		208	101
Sodium	0	0					1170		962	
Thallium	0	103					0.43		97.3	94
Vanadium	0	494					1.0		518	105
Zinc	28.0	1030					31.7	113	980	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					261000	107	265000	110
Antimony	0	589					3.1		596	101
Arsenic	0	101					-0.62		99.4	98
Barium	2.0	495					5.8	290	545	110
Beryllium	0	475					1.6		558	117
Cadmium	0	940					-5.3		908	97
Calcium	235000	231000					254000	108	257000	111
Chromium	43.0	511					45.7	106	554	108
Cobalt	4.0	461					5.5	138	480	104
Copper	23.0	548					23.1	100	535	98
Iron	95600	94800					94600	99	95800	101
Lead	10.0	61.0					10.8	108	59.5	98
Magnesium	248000	251000					256000	103	259000	103
Manganese	19.0	502					21.4	113	534	106
Nickel	21.0	984					21.2	101	921	94
Potassium	0	0					2.4		-7.2	
Selenium	0	53.0					7.8		50.8	96
Silver	0	206					-7.3		210	102
Sodium	0	0					921		856	
Thallium	0	103					0.13		98.5	96
Vanadium	0	494					1.1		526	106
Zinc	28.0	1030					31.5	113	974	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000	247000	101	252000	105	255000	105	257000	107
Antimony	0	589	3.8		604	103	2.9		607	103
Arsenic	0	101	4.3		100	99	2.2		103	102
Barium										
Beryllium	0	475	1.3		513	108	1.5		523	110
Cadmium	0	940	-5.5		977	104	-5.7		950	101
Calcium	235000	231000	244000	104	249000	108	247000	105	248000	107
Chromium	43.0	511	44.2	103	529	104	44.7	104	531	104
Cobalt	4.0	461	6.0	150	487	106	5.8	145	483	105
Copper	23.0	548	23.5	102	528	96	23.3	101	538	98
Iron	95600	94800	95000	99	97100	102	96300	101	96300	102
Lead	10.0	61.0	11.3	113	61.7	101	10.7	107	60.1	99
Magnesium	248000	251000	256000	103	261000	104	259000	104	258000	103
Manganese	19.0	502	21.0	111	516	103	21.2	112	518	103
Nickel										
Potassium										
Selenium	0	53.0	13.3		53.9	102	3.9		56.1	106
Silver	0	206	-6.9		205	100	-6.9		205	100
Sodium										
Thallium	0	103	-0.96		95.9	93	-0.67		94.4	92
Vanadium	0	494	0.84		486	98	0.97		489	99
Zinc	28.0	1030	32.0	114	1050	102	35.9	128	1050	102

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					253000	104	251000	104
Antimony	0	589					4.2		601	102
Arsenic	0	101					0.17		104	103
Barium										
Beryllium	0	475					1.9		513	108
Cadmium	0	940					-5.7		947	101
Calcium	235000	231000					248000	106	243000	105
Chromium	43.0	511					44.4	103	569	111
Cobalt	4.0	461					5.9	148	481	104
Copper	23.0	548					23.8	103	518	95
Iron	95600	94800					96100	101	94800	100
Lead	10.0	61.0					10.8	108	58.4	96
Magnesium	248000	251000					259000	104	254000	101
Manganese	19.0	502					21.3	112	508	101
Nickel										
Potassium										
Selenium	0	53.0					8.2		54.8	103
Silver	0	206					-7.0		218	106
Sodium										
Thallium	0	103					-0.43		94.1	91
Vanadium	0	494					1.1		489	99
Zinc	28.0	1030					31.6	113	1030	100

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					254000	104	253000	105
Antimony	0	589					3.9		602	102
Arsenic	0	101					3.5		101	100
Barium										
Beryllium	0	475					1.5		517	109
Cadmium	0	940					-5.7		945	101
Calcium	235000	231000					248000	106	249000	108
Chromium	43.0	511					44.4	103	523	102
Cobalt	4.0	461					5.8	145	480	104
Copper	23.0	548					23.0	100	527	96
Iron	95600	94800					95900	100	96200	101
Lead	10.0	61.0					11.0	110	58.4	96
Magnesium	248000	251000					258000	104	259000	103
Manganese	19.0	502					20.8	109	517	103
Nickel										
Potassium										
Selenium	0	53.0					7.6		57.4	108
Silver	0	206					-7.1		204	99
Sodium										
Thallium	0	103					-3.1		93.9	91
Vanadium	0	494					1.1		494	100
Zinc	28.0	1030					34.0	121	1030	100

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					250000	102	252000	105
Antimony	0	589					3.7		592	101
Arsenic	0	101					0.63		101	100
Barium										
Beryllium	0	475					1.6		517	109
Cadmium	0	940					-5.6		944	100
Calcium	235000	231000					247000	105	249000	108
Chromium	43.0	511					44.6	104	526	103
Cobalt	4.0	461					5.6	140	478	104
Copper	23.0	548					23.5	102	519	95
Iron	95600	94800					95400	100	96400	102
Lead	10.0	61.0					9.9	99	60.5	99
Magnesium	248000	251000					258000	104	260000	104
Manganese	19.0	502					21.0	111	518	103
Nickel										
Potassium										
Selenium	0	53.0					7.2		54.6	103
Silver	0	206					-7.1		202	98
Sodium										
Thallium	0	103					-2.3		97.3	94
Vanadium	0	494					0.88		504	102
Zinc	28.0	1030					32.6	116	1040	101

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					251000	103	255000	106
Antimony	0	589					3.4		601	102
Arsenic	0	101					0.88		103	102
Barium										
Beryllium	0	475					1.8		528	111
Cadmium	0	940					-5.6		939	100
Calcium	235000	231000					245000	104	250000	108
Chromium	43.0	511					44.1	103	544	106
Cobalt	4.0	461					5.6	140	482	105
Copper	23.0	548					23.4	102	527	96
Iron	95600	94800					94200	99	96300	102
Lead	10.0	61.0					8.7	87	58.3	96
Magnesium	248000	251000					254000	102	260000	104
Manganese	19.0	502					21.0	111	520	104
Nickel										
Potassium										
Selenium	0	53.0					4.9		52.3	99
Silver	0	206					-7.6		209	101
Sodium										
Thallium	0	103					-1.3		94.4	92
Vanadium	0	494					0.90		508	103
Zinc	28.0	1030					33.7	120	1020	99

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00W0S

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 76.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	25.0072		4.4415	J	26.11	79		P
Arsenic	75-125	18.2986		8.9742		10.44	89		P
Barium	75-125	990.6293		486.0128		522.19	97		P
Beryllium	75-125	14.6073		2.1911		13.05	95		P
Cadmium	75-125	10.2195		0.6527	U	13.05	78		P
Calcium									NR
Chromium	75-125	64.9152		15.7333		52.22	94		P
Cobalt	75-125	127.0687		5.8720	J	130.55	93		P
Copper	75-125	151.5854		91.5680		65.27	92		P
Iron									NR
Lead		178.4852		162.5946		5.22	304		P
Magnesium									NR
Manganese	75-125	381.7520		167.5633		130.55	164	N	P
Mercury	75-125	0.9034		0.1580		0.65	115		CV
Nickel	75-125	131.3264		18.4653		130.55	86		P
Potassium									NR
Selenium	75-125	16.6614		6.4699		13.05	78		P
Silver	75-125	15.6936		1.3055	U	13.05	120		P
Sodium									NR
Thallium	75-125	12.0418		0.4199	J	13.05	89		P
Vanadium	75-125	176.4057		47.0766		130.55	99		P
Zinc	75-125	450.3559		314.3513		130.55	104		P
Cyanide	75-125	6.4369		3.2637	U	6.53	99		AS

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00W0A

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese		3590.25		1283.53		2600.0	89		P
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME00W0D

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: SDG No.: ME00T2

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 76.6 % Solids for Duplicate: 76.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		7921.5542		8033.6155		1		P
Antimony		4.4415	J	4.8546	J	9		P
Arsenic		8.9742		10.4439		15		P
Barium		486.0128		436.9950		11		P
Beryllium	0.7	2.1911		2.1409		2		P
Cadmium		0.6527	U	0.6527	U			P
Calcium		7330.8695		7166.5738		2		P
Chromium		15.7333		15.8944		1		P
Cobalt		5.8720	J	6.3617	J	8		P
Copper		91.5680		94.0690		3		P
Iron		40736.0313		42441.8930		4		P
Lead		162.5946		178.7250		9		P
Magnesium		503.8986	J	518.9372	J	3		P
Manganese		167.5633		227.8281		30	*	P
Mercury	0.1	0.1580		0.2644		50	*	CV
Nickel	5.2	18.4653		19.2061		4		P
Potassium	652.7	1321.0764		1184.4995		11		P
Selenium	4.6	6.4699		6.4956		0		P
Silver		1.3055	U	1.3055	U			P
Sodium	652.7	932.1958		842.4693		10		P
Thallium		0.4199	J	3.2637	U	200		P
Vanadium		47.0766		49.5488		5		P
Zinc		314.3513		352.5326		11		P
Cyanide		3.2637	U	3.2637	U			AS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: SDG No.: ME00T2

Instrument Type: AS Instrument ID: CN Date: 01/08/2009

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury		0.1	
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide	578.00	2.5	0.048

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument Type: CV Instrument ID: CV2 Date: 01/08/2009

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury	253.70	0.1	0.020
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: HS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	20	0.70
Antimony	206.83	6	0.80
Arsenic	189.04	1	0.21
Barium	493.41	20	0.47
Beryllium	234.86	0.5	0.060
Cadmium	214.44	0.5	0.050
Calcium	373.69	500	18.2
Chromium	267.72	1	0.11
Cobalt	228.62	5	0.56
Copper	324.75	2.5	0.54
Iron	259.84	10	3.9
Lead	220.35	1	0.18
Magnesium	279.08	500	11.3
Manganese	257.61	1.5	0.31
Mercury		0.1	
Nickel	231.60	4	0.38
Potassium	769.90	500	9.7
Selenium	196.09	3.5	0.49
Silver	328.07	1	0.090
Sodium	818.33	500	2.1
Thallium	190.86	2.5	0.32
Vanadium	292.40	5	0.78
Zinc	213.86	6	0.70
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	200	12.5
Antimony	206.83	60	6.6
Arsenic	189.04	10	3.1
Barium	493.41	200	4.5
Beryllium	234.86	5	0.60
Cadmium	214.44	5	0.40
Calcium	373.69	5000	32.6
Chromium	267.72	10	1.0
Cobalt	228.62	50	5.0
Copper	324.75	25	5.1
Iron	259.84	100	18.1
Lead	220.35	10	2.0
Magnesium	279.08	5000	41.3
Manganese	257.61	15	1.8
Mercury		0.2	
Nickel	231.60	40	3.5
Potassium	769.90	5000	82.2
Selenium	196.09	35	5.4
Silver	328.07	10	1.0
Sodium	818.33	5000	33.8
Thallium	190.86	25	3.5
Vanadium	292.40	50	7.5
Zinc	213.86	60	5.0
Cyanide		10	

Comments:

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/29/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	2234																								X		
S5.0	1.0	2234																								X		
S10.0	1.0	2234																								X		
S100.0	1.0	2234																								X		
S250.0	1.0	2234																								X		
S500.0	1.0	2234																								X		
ICV	1.0	2253																								X		
ICV	1.0	2253																								X		
ICV	1.0	2253																								X		
ICB	1.0	2253																								X		
CRI	1.0	2253																								X		
CCV	1.0	2253																								X		
CCB	1.0	2253																								X		
MIDRANGE	1.0	2253																								X		
MIDRANGE	1.0	2253																								X		
MIDRANGE	1.0	2253																								X		
PBS	1.0	2300																								X		
ZZZZZZ	1.0	2300																										
ZZZZZZ	1.0	2300																										
LCSS	1.0	2304																								X		
ZZZZZZ	1.0	2304																										
ZZZZZZ	1.0	2304																										
ME00T2	1.0	2309																								X		
CCV	1.0	2309																								X		
CCB	1.0	2309																								X		
ME00T3	1.0	2309																								X		
ME00T4	1.0	2309																								X		
ME00T5	1.0	2309																								X		
ME00T8	1.0	2316																								X		
ME00T9	1.0	2322																								X		
ME00W0	1.0	2322																								X		
ME00W0D	1.0	2322																								X		
ME00W0S	1.0	2322																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/29/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00W1	1.0	2344																								X		
CRI	1.0	2344																								X		
CCV	1.0	2344																								X		
CCB	1.0	2344																								X		
ME00W3	1.0	2344																								X		
ME00W4	1.0	2344																								X		
ME00W2	1.0	2354																								X		
ME00W5	1.0	2354																								X		
ME00W6	1.0	2354																								X		
ME00W7	1.0	2354																								X		
ME00W8	1.0	2354																								X		
ME00W9	1.0	2354																								X		
ME00X0	1.0	2354																								X		
ME00X1	1.0	2359																								X		
CCV	1.0	2359																								X		
CCB	1.0	2359																								X		
ME00X2	1.0	2359																								X		
ME00X3	1.0	2359																								X		
ZZZZZZ	1.0	2359																										
ZZZZZZ	1.0	0005																										
ZZZZZZ	1.0	0005																										
ZZZZZZ	1.0	0010																										
ZZZZZZ	1.0	0034																										
ZZZZZZ	1.0	0034																										
ZZZZZZ	1.0	0034																										
CRI	1.0	0113																								X		
CCV	1.0	0113																								X		
CCB	1.0	0113																								X		
ZZZZZZ	1.0	0113																										
ZZZZZZ	1.0	0121																										
ZZZZZZ	1.0	0121																										
CRI	1.0	0139																								X		
CCV	1.0	0145																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/29/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
CCB	1.0	0145																								X	

FORM XIII-IN ILM05.4

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13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1258															X											
S0.2	1.0	1300															X											
S2.5	1.0	1302															X											
S5.0	1.0	1304															X											
S7.5	1.0	1306															X											
S10.0	1.0	1308															X											
ICV	1.0	1312															X											
ICB	1.0	1314															X											
CRI	1.0	1316															X											
CCV	1.0	1318															X											
CCB	1.0	1320															X											
PBS	1.0	1322															X											
LCSS	1.0	1324															X											
ME00T2	1.0	1326															X											
ME00T3	1.0	1329															X											
ME00T4	1.0	1331															X											
ME00T5	1.0	1333															X											
ME00T8	1.0	1335															X											
ME00T9	1.0	1337															X											
ME00W0	1.0	1339															X											
ME00W0D	1.0	1341															X											
CCV	1.0	1343															X											
CCB	1.0	1345															X											
ME00W0S	1.0	1348															X											
ME00W1	1.0	1350															X											
ME00W2	1.0	1351															X											
ME00W3	1.0	1354															X											
ME00W4	1.0	1355															X											
ME00W5	1.0	1357															X											
ME00W6	1.0	1400															X											
CRI	1.0	1402															X											
CCV	1.0	1427															X											
CCB	1.0	1429															X											

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00W7	1.0	1431															X											
ME00W8	1.0	1433															X											
ME00W9	1.0	1435															X											
ME00X0	1.0	1437															X											
ME00X1	1.0	1440															X											
ME00X2	1.0	1442															X											
ME00X3	1.0	1444															X											
ZZZZZZ	1.0	1446																										
ZZZZZZ	1.0	1448																										
ZZZZZZ	1.0	1450																										
CCV	1.0	1453															X											
CCB	1.0	1455															X											
ZZZZZZ	1.0	1457																										
ZZZZZZ	1.0	1500																										
ZZZZZZ	1.0	1502																										
ZZZZZZ	1.0	1504																										
ZZZZZZ	1.0	1506																										
ZZZZZZ	1.0	1508																										
ZZZZZZ	1.0	1510																										
CRI	1.0	1512															X											
CCV	1.0	1514															X											
CCB	1.0	1516															X											
ZZZZZZ	1.0	1518																										
ZZZZZZ	1.0	1520																										
ZZZZZZ	1.0	1522																										
ZZZZZZ	1.0	1524																										
CRI	1.0	1526															X											
CCV	1.0	1528															X											
CCB	1.0	1530															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	2140	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
S	1.0	2143	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICV	1.0	2146	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ICB	1.0	2149	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CRI	1.0	2152		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	2155	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	2158	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	2201	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2204	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	0	2207																										
ZZZZZZ	0	2211																										
ZZZZZZ	0	2214																										
ZZZZZZ	0	2217																										
ZZZZZZ	0	2220																										
ZZZZZZ	0	2223																										
ZZZZZZ	0	2226																										
ZZZZZZ	0	2229																										
ZZZZZZ	0	2232																										
ZZZZZZ	0	2235																										
CCV	1.0	2238	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2241	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	0	2244																										
ZZZZZZ	1.0	2247																										
ZZZZZZ	1.0	2251																										
ZZZZZZ	1.0	2254																										
ZZZZZZ	1.0	2257																										
ZZZZZZ	1.0	2300																										
ZZZZZZ	1.0	2303																										
CRI	1.0	2306		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	2309	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	2312	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	2315	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2318	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			

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USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	2321																										
ZZZZZZ	1.0	2324																										
ZZZZZZ	1.0	2327																										
ZZZZZZ	5.0	2331																										
ZZZZZZ	1.0	2334																										
ZZZZZZ	1.0	2337																										
ZZZZZZ	1.0	2340																										
ZZZZZZ	1.0	2343																										
ZZZZZZ	1.0	2346																										
ZZZZZZ	1.0	2349																										
CCV	1.0	2352	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2355	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	2358																										
ZZZZZZ	1.0	0001																										
ZZZZZZ	1.0	0004																										
ZZZZZZ	1.0	0007																										
ZZZZZZ	1.0	0011																										
ZZZZZZ	1.0	0014																										
ZZZZZZ	1.0	0017																										
CRI	1.0	0020		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0023	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0026	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0029	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0032	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0035																										
ZZZZZZ	1.0	0038																										
ZZZZZZ	1.0	0041																										
ZZZZZZ	1.0	0044																										
ZZZZZZ	1.0	0047																										
ZZZZZZ	1.0	0051																										
ZZZZZZ	1.0	0054																										
ZZZZZZ	1.0	0057																										
ZZZZZZ	5.0	0100																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	0103																										
CCV	1.0	0106	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0109	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0112																										
ZZZZZZ	1.0	0115																										
ZZZZZZ	1.0	0118																										
ZZZZZZ	1.0	0121																										
ZZZZZZ	1.0	0124																										
ZZZZZZ	1.0	0127																										
ZZZZZZ	1.0	0130																										
CRI	1.0	0133		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0136	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0139	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0142	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0145	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
PBS	1.0	0148	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
LCSS	1.0	0151	X		X	X		X	X		X		X		X			X	X	X	X		X					
ME00T2	1.0	0154	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00T3	1.0	0157	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00T4	1.0	0200	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00T5	1.0	0203	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00T8	1.0	0206	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00T9	1.0	0209	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W0	1.0	0212	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W0L	5.0	0216	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCV	1.0	0219	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0221	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W0D	1.0	0225	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W0S	1.0	0228		X	X	X		X			X	X		X		X		X		X	X		X		X			
ME00W1	1.0	0231	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X					
ME00W2	1.0	0234	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W3	1.0	0237	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W4	1.0	0240	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00W5	1.0	0243	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CRI	1.0	0246		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0249	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0252	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0255	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0258	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W6	1.0	0301	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W7	1.0	0304	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W8	1.0	0307	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00W9	1.0	0310	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00X0	1.0	0313	X	X	X	X		X	X		X		X	X	X	X		X	X	X	X		X					
ME00X1	1.0	0316	X	X	X	X		X	X		X		X		X	X		X	X	X	X		X					
ME00X2	1.0	0319	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00X3	1.0	0323	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0326																										
ZZZZZZ	1.0	0329																										
CCV	1.0	0332	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0335	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0338																										
ZZZZZZ	5.0	0341																										
ZZZZZZ	1.0	0344																										
ZZZZZZ	1.0	0347																										
ZZZZZZ	1.0	0350																										
ZZZZZZ	1.0	0353																										
ZZZZZZ	1.0	0356																										
CRI	1.0	0400		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0403	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0406	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0409	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0412	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1503	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
S	1.0	1506	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICV	1.0	1510		X			X			X		X		X		X						X		X	X			
ICB	1.0	1513		X			X			X		X		X		X						X		X	X			
CRI	1.0	1516		X			X			X		X		X		X								X	X			
ICSA	1.0	1519	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	1522	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	1525		X			X			X		X		X		X						X		X	X			
CCB	1.0	1528		X			X			X		X		X		X						X		X	X			
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1534																										
ZZZZZZ	1.0	1537																										
ZZZZZZ	5.0	1540																										
ZZZZZZ	1.0	1544																										
ZZZZZZ	1.0	1547																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1553																										
ZZZZZZ	1.0	1556																										
ZZZZZZ	1.0	1559																										
CCV	1.0	1602		X			X			X		X		X		X						X		X	X			
CCB	1.0	1605		X			X			X		X		X		X						X		X	X			
ZZZZZZ	1.0	1608																										
ZZZZZZ	1.0	1611																										
ZZZZZZ	5.0	1614																										
ZZZZZZ	1.0	1617																										
ZZZZZZ	1.0	1620																										
ZZZZZZ	1.0	1623																										
ZZZZZZ	1.0	1626																										
CRI	1.0	1629		X			X			X		X		X		X							X	X				
ICSA	1.0	1633	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	1636	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	1639		X			X			X		X		X		X						X		X	X			
CCB	1.0	1642		X			X			X		X		X		X						X		X	X			

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1645																										
ZZZZZZ	1.0	1648																										
ZZZZZZ	1.0	1651																										
ZZZZZZ	1.0	1654																										
PBS	1.0	1657		X			X			X		X		X		X						X		X	X			
LCSS	1.0	1700		X			X			X		X		X		X						X		X	X			
ME00T2	1.0	1703					X			X												X		X				
ME00T3	1.0	1706					X			X												X		X				
ME00T4	1.0	1709					X			X												X		X				
ME00T5	1.0	1712					X			X												X		X				
CCV	1.0	1715		X			X			X		X		X		X						X		X	X			
CCB	1.0	1718		X			X			X		X		X		X						X		X	X			
ME00T8	1.0	1721					X			X												X		X				
ME00T9	1.0	1724					X			X												X		X				
ME00W0	1.0	1727					X			X												X		X				
ME00W0L	5.0	1730					X			X												X		X				
ME00W0D	1.0	1733					X			X												X		X				
ME00W0S	1.0	1736					X			X														X				
ME00W1	1.0	1739					X			X												X		X				
CRI	1.0	1742		X			X			X		X		X		X								X	X			
ICSA	1.0	1745	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	1748	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	1751		X			X			X		X		X		X						X		X	X			
CCB	1.0	1754		X			X			X		X		X		X						X		X	X			
ME00W2	1.0	1757					X			X												X		X				
ME00W3	1.0	1800					X			X												X		X				
ME00W4	1.0	1803					X			X												X		X				
ME00W5	1.0	1806					X			X												X		X				
ME00W6	1.0	1809					X			X												X		X				
ME00W7	1.0	1812					X			X												X		X				
ME00W8	1.0	1815					X			X												X		X				
ME00W9	1.0	1818					X			X												X		X				
ME00X0	1.0	1822					X			X												X		X				

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ME00X1	1.0	1825					X			X												X		X					
CCV	1.0	1828		X			X			X		X		X		X						X		X	X				
CCB	1.0	1831		X			X			X		X		X		X						X		X	X				
ME00X2	1.0	1834					X			X												X		X					
ME00X3	1.0	1837					X			X												X		X					
CRI	1.0	1840		X			X			X		X		X		X								X	X				
ICSA	1.0	1843	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X				
ICSAB	1.0	1846	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X				
CCV	1.0	1849		X			X			X		X		X		X						X		X	X				
CCB	1.0	1852		X			X			X		X		X		X						X		X	X				
ZZZZZZ	0	1855																											
ZZZZZZ	1.0	1858																											
ME00W0A	1.0	1901														X													
ZZZZZZ	1.0	1904																											
ZZZZZZ	10	1907																											
ME00W1	3.0	1910																							X				
ME00X0	4.0	1913										X													X				
ME00X1	5.0	1917										X		X															
ZZZZZZ	0	1920																											
ZZZZZZ	0	1923																											
CCV	1.0	1926		X			X			X		X		X		X						X		X	X				
CCB	1.0	1929		X			X			X		X		X		X						X		X	X				
ZZZZZZ	1.0	1932																											
ZZZZZZ	1.0	1935																											
ZZZZZZ	1.0	1938																											
ZZZZZZ	1.0	1941																											
ZZZZZZ	1.0	1944																											
ME00X1	10	1947																							X				
ZZZZZZ	25	1950																											
CRI	1.0	2003		X			X			X		X		X		X								X	X				
ICSA	1.0	2007	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X				
ICSAB	1.0	2010	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X				
CCV	1.0	2013		X			X			X		X		X		X						X		X	X				

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00T2

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCB	1.0	2016		X			X			X		X		X		X						X		X	X			
ZZZZZZ	0	2019																										
ZZZZZZ	0	2022																										
ZZZZZZ	0	2025																										
ZZZZZZ	0	2028																										
ZZZZZZ	0	2031																										
ZZZZZZ	0	2034																										
ZZZZZZ	0	2037																										
ZZZZZZ	0	2040																										
ZZZZZZ	0	2043																										
ZZZZZZ	0	2047																										
CCV	1.0	2050		X			X			X		X		X		X						X		X	X			
CCB	1.0	2052		X			X			X		X		X		X						X		X	X			
ZZZZZZ	0	2056																										
ZZZZZZ	0	2059																										
ZZZZZZ	0	2102																										
ZZZZZZ	0	2105																										
ZZZZZZ	0	2108																										
ZZZZZZ	0	2111																										
ZZZZZZ	0	2114																										
CRI	1.0	2117		X			X			X		X		X		X								X	X			
ICSA	1.0	2120	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	2124	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	2127		X			X			X		X		X		X						X		X	X			
CCB	1.0	2129		X			X			X		X		X		X						X		X	X			

FORM XIII-IN ILM05.4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: MEU0T2 CERCLIS No: ILD053980454

Case No: 39143 Site Name/Location: Sandoval Zinc (IL)

Contractor or EPA Lab: ChemTech Data User: IEPA

No. of Samples: 20 Date Sampled or Date Received: 16 Nov 09

Have Chain-of-Custody records been received? Yes X No_____
Have traffic reports or packing lists been received? Yes X No _____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No____
No of samples claimed: 20 No. of samples received:_____

Received by: Pat Joyner Date: 16 Nov 09

Received by LSSS: Pat Joyner Date: 18 Nov 09

Review started: 12/18/09 Reviewer Signature: Deborah Grant

Total time spent on review: 18.0 + 0.5 Date review completed: 12/22/09

Copied by: [illegible] 12-28-09 Date: Dec 29, 2009

Mailed to user by: Pat Joyner Date: 30 Dec 09

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date:_____

Data review received by: _____ Date:_____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date:_____

ESAT Controlled Number: ESAT5 17.01000 - pf 27 Jan 10

DATE: January 27, 2010

IEPA
Attn: Mr. Mark Wagner
1001 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: **Sandoval Zinc (IL)**

Case	Lab	Samples	SDG	Matrix
39143	ChemTech	7	ME00X4	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Joyner
Data Coordinator
ESAT Region 5 **TechLaw**

JAN 28 2010

Controlled Document

ESAT5.15.00402
ACA
1-26-10

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/11/10

SUBJECT: Review of Data
Received for review on 11/16/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Sandoval Zinc (IL)

CASE NUMBER: 39143 **SDG NUMBER:** ME00X4

Number and Type of Samples: 7 soils

Sample Numbers: ME00X4-X9, Y0

Laboratory: Chemtech **Hrs. for Review:** 9
+1.3 DEC

Following are our findings:

c

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Seven (7) soil samples, numbered ME00X4-X9, Y0, were collected on October 21-22, 2009. The lab received the samples on October 24, 2009 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

On the Traffic Report/Chain of Custody Record, it states that the soil samples were preserved with NaOH. No sample results are qualified for this.

No raw data for percent solids was provided. Percent solids data were presented on a computer generated spreadsheet. Percent solids calculations used by the laboratory were frequently rounded incorrectly. Three out of the seven values reported by the laboratory were rounded up when they should not have been. The incorrectly reported percent solids results can result in low biased sample results. The reported results were corrected on samples ME00X4, ME00X6 and ME00X7 by this reviewer.

Five prepped sample weights (PBS, LCSS, ME00X4, ME00X4D and ME00X4S) were entered incorrectly on Form 12 for cyanide. Values were corrected by this reviewer. All corrected values were used for sample result verification.

The conversion calculation formula provided in the laboratory case narrative does not include unit values for several of the variables or multipliers within the equation. Reported sample results are calculated correctly.

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Mercury

ME00X4, ME00X7, ME00X9, ME00Y0

Sodium

ME00X4, ME00X5, ME00X6, ME00X7, ME00X8, ME00X9, ME00Y0

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Cyanide

ME00X5, ME00X6

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME00X4, ME00X5, ME00X6, ME00X7, ME00X8, ME00X9, ME00Y0

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. No post spike was required. The samples are also associated with a negative ICSA sample whose absolute value is greater than the MDL (see ICP Analysis Section 6 below).

Hits are qualified "J"; non-detects are not qualified.

Silver

ME00X7

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Calcium

ME00X4, ME00X5, ME00X6, ME00X7, ME00X8, ME00X9, ME00Y0

Lead

ME00X4, ME00X5, ME00X6, ME00X7, ME00X8, ME00X9, ME00Y0

The following inorganic samples are associated with duplicate results which did not meet absolute difference (AD) primary criteria. Region 5 uses 2xCRQL difference criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Magnesium

ME00X4, ME00X5, ME00X6, ME00X7, ME00X8, ME00X9, ME00Y0

No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Beryllium

ME00X4, ME00X5, ME00X6, ME00X7, ME00X8, ME00Y0

Selenium

ME00X4, ME00X5, ME00X6, ME00X7, ME00X8, ME00Y0

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Cadmium

ME00X4, ME00X5, ME00X6, ME00X8, ME00Y0

Silver

ME00X4, ME00X5, ME00X6, ME00X8, ME00Y0

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA. The results are also associated with a high matrix spike recovery (see Matrix Spike Section 4 above).

Hits less than 10 times the absolute value of the ICSA are qualified "J". Hits greater than 10 times the ICSA are not qualified.

Silver

ME00X7

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference.

Non-detects are qualified "R".

Silver

ME00Y0

No defects were found for the serial dilution sample.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony

ME00X4, ME00X8, ME00Y0

Beryllium

ME00X4, ME00X9

Cobalt

ME00X4, ME00X8, ME00X9

Potassium

ME00X4, ME00X9

Selenium

ME00X4, ME00X5, ME00X8, ME00X9, ME00Y0

Cyanide

ME00X5, ME00X6

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 39143
SDG : ME00X4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/11/2010

Number of Soil Samples : 7
Number of Water Samples : 0

Sample Number :	ME00X4		ME00X5		ME00X6		ME00X7		ME00X8	
Sampling Location :	X121		X122		X123		X124		X125	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/21/2009		10/21/2009		10/21/2009		10/22/2009		10/22/2009	
Time Sampled :										
%Solids :	81.6		74.4		77.2		74.9		56.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7150		6820		7250		9420		9580	
ANTIMONY	2.3	J	15.5	J	20.3	J	200	J	6.5	J
ARSENIC	6.4		16.7		21.9		23.4		8.7	
BARIUM	102		265		323		232		459	
BERYLLIUM	0.60	J+	0.99	J+	0.94	J+	1.7	J+	1.4	J+
CADMIUM	0.61	UJ	1.2	J-	2.5	J-	8.9		2.1	J-
CALCIUM	43900	J	111000	J	41800	J	4280	J	21000	J
CHROMIUM	10.6		17.6		26.5		27.7		23.0	
COBALT	5.5	J	5.9		7.1		28.3		6.6	J
COPPER	65.3		275		386		5480		158	
IRON	13000		21100		25300		29100		20600	
LEAD	103	J	820	J	1010	J	11800	J	1400	J
MAGNESIUM	2940	J	4250	J	6660	J	892	J	2790	J
MANGANESE	751		322		381		548		622	
MERCURY	0.13	U	0.70		0.74		0.16	U	0.84	
NICKEL	53.4		48.2		62.1		1550		25.7	
POTASSIUM	525	J	534		557		614		1470	
SELENIUM	1.8	J+	2.8	J+	3.5	J+	4.2	J+	4.0	J+
SILVER	1.2	UJ	1.0	UJ	0.91	UJ	4.7	J	1.6	UJ
SODIUM	613	U	502	U	453	U	547	U	783	U
THALLIUM	3.1	U	2.5	U	2.3	U	2.7	U	3.9	U
VANADIUM	18.3		20.3		22.8		16.7		40.2	
ZINC	1030		2940		3650		107000		1710	
CYANIDE	2.9	U	0.16	J-	0.083	J-	3.2	U	4.4	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00X4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/11/2010

Sample Number :	ME00X9		ME00Y0							
Sampling Location :	X126		X127							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	10/22/2009		10/22/2009							
Time Sampled :										
%Solids :	76.4		79.8							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6510		8650							
ANTIMONY	7.1	UJ	1.6	J						
ARSENIC	4.6		9.7							
BARIUM	129		181							
BERYLLIUM	0.58	J	0.84	J+						
CADMIUM	0.59	U	0.59	UJ						
CALCIUM	5580	J	2740	J						
CHROMIUM	8.8		14.8							
COBALT	3.8	J	7.3							
COPPER	14.8		39.4							
IRON	9340		22900							
LEAD	43.4	J	87.7	J						
MAGNESIUM	2130	J	1530	J						
MANGANESE	344		589							
MERCURY	0.12	U	0.12	U						
NICKEL	8.9		18.6							
POTASSIUM	440	J	748							
SELENIUM	1.5	J	3.3	J+						
SILVER	1.2	U	1.2	R						
SODIUM	595	U	591	U						
THALLIUM	3.0	U	3.0	U						
VANADIUM	20.4		26.0							
ZINC	138		354							
CYANIDE	3.2	U	3.0	U						

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39143
DAS No:
SDG No: ME00X4

L5

Date Shipped: 10/22/2009
Carrier Name: UPS
Airbill: 1Z6215892210084382
Shipped to: ChemTech Consulting Group
284 Sheffield Street
Mountainside NJ 07092
(908) 789-8900

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	10-22-09 1:200		
2			
3			
4		SMENAC / MEMA-11	10/22/09 11:30

Sampler Signature:

For Lab Use Only
Lab Contract No: EPW08066
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00X4	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105306 (NaOH) (1)	X121	S: 10/21/2009 17:30		
ME00X5	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105307 (NaOH) (1)	X122	S: 10/21/2009 18:00		
ME00X6	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105308 (NaOH) (1)	X123	S: 10/21/2009 18:00		
ME00X7	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105309 (NaOH) (1)	X124	S: 10/22/2009 8:45		
ME00X8	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105310 (NaOH) (1)	X125	S: 10/22/2009 9:00		
ME00X9	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105311 (NaOH) (1)	X126	S: 10/22/2009 9:30		
ME00Y0	Soil (0"-12")/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105312 (NaOH) (1)	X127	S: 10/22/2009 10:00		

90

hipment for Case omplete?Y

Sample(s) to be used for laboratory QC:

Additional Sampler Signature(s):

Cooler Temperature Upon Receipt: 5.6

Chain of Custody Seal Number: 8435

nalysis Key:
CP, Hg,CN = CLP ICP Metals, Hg, CN

Concentration: L = Low, M = Low/Medium, H = High

Type/Designate: Composite = C, Grab = G

Custody Seal Intact? ✓

Shipment Iced? ✓

R Number: 5-162075208-102209-0002

provides preliminary results. Requests for preliminary results will increase analytical costs.
nd Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax
3/818-4602

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME00X4
CASE # 39143
CONTRACT # EPW08065
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT #A4838

A. Number of Samples and Date of Receipt

07 Soil Samples were delivered to the laboratory intact on 10/24/09

B. Parameters

Test requested for Metals CLP FULL (by ICP-AES), Hg & CN.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

E. Corrective Action taken for above:

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.4

G. Calculation:

Calculation example for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/% Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10 (1.0 X10 or 0.50 X

20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10.2 (1.02 X 10 or 0.51 X 20)
(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

Calculation example for Hg Soil Sample:

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1/ 2 (0.2 X 10)
(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 2.1 (0.21 X 10)
(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

Calculation example for CN Soil Sample:

Conversion of Results from Ug/L to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in Ug/L for CN) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in CN Soil Prep = 1/20 (1 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Or

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Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 20.2 (1.01 X 20)
(if 1.01 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Etc.

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony & Silver. Duplicate sample did meet requirements except for Calcium, Lead, Magnesium & Manganese. Serial Dilution did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature M Reyes Name: Mildred V. Reyes

Date 11/13/09 Title: Document Control Officer

NOV 1 6 2009

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Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME00X4	A4838-01
ME00X4D	A4838-02
ME00X4S	A4838-03
ME00X5	A4838-04
ME00X6	A4838-05
ME00X7	A4838-06
ME00X8	A4838-07
ME00X9	A4838-08
ME00Y0	A4838-09

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: MILDRED V. REYES

Date: 11/3/09 Title: DOCUMENT CONTROL OFFICER

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X4

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: SDG No.: ME00X4

Matrix: (soil/water) SOIL Lab Sample ID: A4838-01

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7140			P
7440-36-0	Antimony	2.3	J	N	P
7440-38-2	Arsenic	6.4			P
7440-39-3	Barium	102			P
7440-41-7	Beryllium	0.60	J		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	43900		*	P
7440-47-3	Chromium	10.6			P
7440-48-4	Cobalt	5.5	J		P
7440-50-8	Copper	65.2			P
7439-89-6	Iron	13000			P
7439-92-1	Lead	103		*	P
7439-95-4	Magnesium	2940		*	P
7439-96-5	Manganese	750		*	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	53.3			P
7440-09-7	Potassium	524	J		P
7782-49-2	Selenium	1.8	J		P
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	112	J		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	18.3			P
7440-66-6	Zinc	1030			P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: SDG No.: ME00X4

Matrix: (soil/water) SOIL Lab Sample ID: A4838-04

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 74.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6820			P
7440-36-0	Antimony	15.5		N	P
7440-38-2	Arsenic	16.7			P
7440-39-3	Barium	265			P
7440-41-7	Beryllium	0.99			P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	111000		*	P
7440-47-3	Chromium	17.6			P
7440-48-4	Cobalt	5.9			P
7440-50-8	Copper	275			P
7439-89-6	Iron	21100			P
7439-92-1	Lead	820		*	P
7439-95-4	Magnesium	4250		*	P
7439-96-5	Manganese	322		*	P
7439-97-6	Mercury	0.70			CV
7440-02-0	Nickel	48.2			P
7440-09-7	Potassium	534			P
7782-49-2	Selenium	2.8	J		P
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	442	J		P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	20.3			P
7440-66-6	Zinc	2940			P
57-12-5	Cyanide	0.16	J		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Lab Sample ID: A4838-05

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 77.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7240			P
7440-36-0	Antimony	20.3		N	P
7440-38-2	Arsenic	21.9			P
7440-39-3	Barium	322			P
7440-41-7	Beryllium	0.94			P
7440-43-9	Cadmium	2.5			P
7440-70-2	Calcium	41700		*	P
7440-47-3	Chromium	26.5			P
7440-48-4	Cobalt	7.1			P
7440-50-8	Copper	386			P
7439-89-6	Iron	25300			P
7439-92-1	Lead	1010		*	P
7439-95-4	Magnesium	6660		*	P
7439-96-5	Manganese	380		*	P
7439-97-6	Mercury	0.74			CV
7440-02-0	Nickel	62.0			P
7440-09-7	Potassium	556			P
7782-49-2	Selenium	3.5			P
7440-22-4	Silver	0.90	U	N	P
7440-23-5	Sodium	396	J		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	22.8			P
7440-66-6	Zinc	3640			P
57-12-5	Cyanide	0.083	J		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Lab Sample ID: A4838-06

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 75.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9410			P
7440-36-0	Antimony	200		N	P
7440-38-2	Arsenic	23.3			P
7440-39-3	Barium	232			P
7440-41-7	Beryllium	1.7			P
7440-43-9	Cadmium	8.9			P
7440-70-2	Calcium	4270		*	P
7440-47-3	Chromium	27.7			P
7440-48-4	Cobalt	28.2			P
7440-50-8	Copper	5470			P
7439-89-6	Iron	29100			P
7439-92-1	Lead	11800		*	P
7439-95-4	Magnesium	891		*	P
7439-96-5	Manganese	548		*	P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	1550			P
7440-09-7	Potassium	613			P
7782-49-2	Selenium	4.2			P
7440-22-4	Silver	4.7		N	P
7440-23-5	Sodium	466	J		P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	16.7			P
7440-66-6	Zinc	107000		D	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Lab Sample ID: A4838-07

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 56.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9580			P
7440-36-0	Antimony	6.5	J	N	P
7440-38-2	Arsenic	8.7			P
7440-39-3	Barium	459			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	2.1			P
7440-70-2	Calcium	21000		*	P
7440-47-3	Chromium	23.0			P
7440-48-4	Cobalt	6.6	J		P
7440-50-8	Copper	158			P
7439-89-6	Iron	20600			P
7439-92-1	Lead	1400		*	P
7439-95-4	Magnesium	2790		*	P
7439-96-5	Manganese	623		*	P
7439-97-6	Mercury	0.84			CV
7440-02-0	Nickel	25.7			P
7440-09-7	Potassium	1470			P
7782-49-2	Selenium	4.0	J		P
7440-22-4	Silver	1.6	U	N	P
7440-23-5	Sodium	561	J		P
7440-28-0	Thallium	3.9	U		P
7440-62-2	Vanadium	40.2			P
7440-66-6	Zinc	1710			P
57-12-5	Cyanide	4.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00X9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Lab Sample ID: A4838-08

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6510			P
7440-36-0	Antimony	7.1	U	N	P
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	129			P
7440-41-7	Beryllium	0.58	J		P
7440-43-9	Cadmium	0.59	U		P
7440-70-2	Calcium	5580		*	P
7440-47-3	Chromium	8.8			P
7440-48-4	Cobalt	3.8	J		P
7440-50-8	Copper	14.8			P
7439-89-6	Iron	9340			P
7439-92-1	Lead	43.4		*	P
7439-95-4	Magnesium	2130		*	P
7439-96-5	Manganese	344		*	P
7439-97-6	Mercury	0.10	J		CV
7440-02-0	Nickel	8.9			P
7440-09-7	Potassium	440	J		P
7782-49-2	Selenium	1.5	J		P
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	111	J		P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	20.4			P
7440-66-6	Zinc	138			P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00Y0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Lab Sample ID: A4838-09

Level: (low/med) LOW Date Received: 10/24/2009

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8650			P
7440-36-0	Antimony	1.6	J	N	P
7440-38-2	Arsenic	9.7			P
7440-39-3	Barium	181			P
7440-41-7	Beryllium	0.84			P
7440-43-9	Cadmium	0.59	U		P
7440-70-2	Calcium	2740		*	P
7440-47-3	Chromium	14.8			P
7440-48-4	Cobalt	7.3			P
7440-50-8	Copper	39.4			P
7439-89-6	Iron	22900			P
7439-92-1	Lead	87.7		*	P
7439-95-4	Magnesium	1530		*	P
7439-96-5	Manganese	589		*	P
7439-97-6	Mercury	0.078	J		CV
7440-02-0	Nickel	18.6			P
7440-09-7	Potassium	748			P
7782-49-2	Selenium	3.3	J		P
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	242	J		P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	26.0			P
7440-66-6	Zinc	354			P
57-12-5	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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3-IN
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	10.000	U	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Manganese	15.000	U	15.000	U	15.000	U	15.000	U	1.500	U	P
Mercury	0.200	U	0.200	U	0.072	J	0.102	J	0.048	J	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	4.000	U	P
Potassium	5000.000	U	5000.000	U	89.598	J	5000.000	U	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Sodium	-98.949	J	-85.945	J	-98.042	J	112.275	J	500.000	U	P
Thallium	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide	-4.693	J	-4.266	J	-4.820	J	-4.140	J	-0.245	J	AS

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3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U	200.000	U			P
Antimony			60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			5.000	U	5.000	U	5.000	U			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U	2.500	U	P
Iron			100.000	U	100.000	U	100.000	U			P
Lead			10.000	U	10.000	U	10.000	U			P
Magnesium			5000.000	U	5000.000	U	5000.000	U			P
Manganese			15.000	U	15.000	U	15.000	U	1.500	U	P
Mercury			0.200	U	0.200	U	0.078	J			CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			5000.000	U	5000.000	U	5000.000	U			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			5000.000	U	-90.118	J	111.113	J			P
Thallium			25.000	U	25.000	U	25.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide			-4.787	J	-5.272	J	-4.983	J			AS

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3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U	200.000	U			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			200.000	U	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			5.000	U	5.000	U	5.000	U			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			100.000	U	100.000	U	100.000	U			P
Lead			-2.342	J	-2.201	J	10.000	U			P
Magnesium			5000.000	U	5000.000	U	5000.000	U			P
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			5000.000	U	5000.000	U	125.491	J			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			152.243	J	5000.000	U	5000.000	U			P
Thallium			25.000	U	25.000	U	25.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide			-4.645	J	-7.016	J					AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			200.000	U	200.000	U					P
Antimony			60.000	U	60.000	U					P
Arsenic			10.000	U	10.000	U					P
Barium			200.000	U	200.000	U					P
Beryllium			5.000	U	5.000	U					P
Cadmium			5.000	U	5.000	U					P
Calcium			5000.000	U	5000.000	U					P
Chromium			10.000	U	10.000	U					P
Cobalt			50.000	U	50.000	U					P
Copper			25.000	U	25.000	U					P
Iron			100.000	U	100.000	U					P
Lead			10.000	U	10.000	U					P
Magnesium			5000.000	U	5000.000	U					P
Manganese			15.000	U	15.000	U					P
Mercury											NR
Nickel			40.000	U	40.000	U					P
Potassium			5000.000	U	93.514	J					P
Selenium			35.000	U	35.000	U					P
Silver			10.000	U	10.000	U					P
Sodium			-104.147	J	82.139	J					P
Thallium			25.000	U	25.000	U					P
Vanadium			50.000	U	50.000	U					P
Zinc			60.000	U	60.000	U					P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony	60.000	U	60.000	U	60.000	U	60.000	U			P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper	25.000	U	25.000	U	25.000	U	25.000	U			P
Iron											NR
Lead											NR
Magnesium											NR
Manganese	15.000	U	15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc	60.000	U	60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper			25.000	U	25.000	U	25.000	U			P
Iron											NR
Lead											NR
Magnesium											NR
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper			25.000	U	25.000	U	25.000	U			P
Iron											NR
Lead											NR
Magnesium											NR
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony			60.000	U	60.000	U					P
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper			25.000	U	25.000	U					P
Iron											NR
Lead											NR
Magnesium											NR
Manganese			15.000	U	15.000	U					P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc			60.000	U	60.000	U					P
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000	250000	102	250000	104	251000	103	251000	104
Antimony	0	589	1.5		602	102	0.65		596	101
Arsenic	0	101	0.83		100	99	3.8		98.6	98
Barium	2.0	495	4.3	215	525	106	3.8	190	522	105
Beryllium	0	475	1.7		503	106	1.2		515	108
Cadmium	0	940	-5.3		982	104	-5.2		976	104
Calcium	235000	231000	250000	106	249000	108	249000	106	248000	107
Chromium	43.0	511	44.5	103	527	103	44.7	104	537	105
Cobalt	4.0	461	5.6	140	491	107	5.8	145	489	106
Copper	23.0	548	25.2	110	521	95	20.7	90	521	95
Iron	95600	94800	96900	101	96300	102	96600	101	96500	102
Lead	10.0	61.0	8.2	82	56.9	93	10.9	109	58.7	96
Magnesium	248000	251000	259000	104	257000	102	258000	104	257000	102
Manganese	19.0	502	21.4	113	512	102	21.7	114	517	103
Nickel	21.0	984	23.2	110	1010	103	22.3	106	996	101
Potassium	0	0	-33.5		-82.7		-32.4		-58.1	
Selenium	0	53.0	4.3		60.8	115	7.3		61.1	115
Silver	0	206	-5.6		206	100	-5.7		207	100
Sodium	0	0	991		1010		949		1130	
Thallium	0	103	-1.3		99.7	97	-0.36		98.0	95
Vanadium	0	494	0.44		475	96	0.70		482	98
Zinc	28.0	1030	34.2	122	1050	102	35.5	127	1030	100

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					251000	103	249000	103
Antimony	0	589					0.69		590	100
Arsenic	0	101					0.56		102	101
Barium	2.0	495					4.1	205	522	105
Beryllium	0	475					1.5		511	108
Cadmium	0	940					-5.2		961	102
Calcium	235000	231000					248000	106	248000	107
Chromium	43.0	511					44.5	103	527	103
Cobalt	4.0	461					5.5	138	483	105
Copper	23.0	548					23.3	101	515	94
Iron	95600	94800					95800	100	95400	101
Lead	10.0	61.0					10	100	56.2	92
Magnesium	248000	251000					256000	103	256000	102
Manganese	19.0	502					21.7	114	512	102
Nickel	21.0	984					23.1	110	979	99
Potassium	0	0					-52.0		-117	
Selenium	0	53.0					8.9		54.9	104
Silver	0	206					-5.6		205	100
Sodium	0	0					1010		932	
Thallium	0	103					-0.73		97.1	94
Vanadium	0	494					0.48		482	98
Zinc	28.0	1030					33.2	119	1010	98

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					257000	105	260000	108
Antimony	0	589					4.1		592	101
Arsenic	0	101					2.5		104	103
Barium	2.0	495					4.4	220	536	108
Beryllium	0	475					1.7		542	114
Cadmium	0	940					-5.4		938	100
Calcium	235000	231000					252000	107	254000	110
Chromium	43.0	511					45.8	107	543	106
Cobalt	4.0	461					5.6	140	485	105
Copper	23.0	548					23.6	103	532	97
Iron	95600	94800					95400	100	95900	101
Lead	10.0	61.0					8.0	80	59.5	98
Magnesium	248000	251000					257000	104	258000	103
Manganese	19.0	502					21.7	114	528	105
Nickel	21.0	984					21.9	104	953	97
Potassium	0	0					-80.7		-72.3	
Selenium	0	53.0					11.1		56.3	106
Silver	0	206					-6.6		207	100
Sodium	0	0					1010		818	
Thallium	0	103					-0.047		97.2	94
Vanadium	0	494					0.68		512	104
Zinc	28.0	1030					33.2	119	998	97

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					258000	106	264000	110
Antimony	0	589					2.8		603	102
Arsenic	0	101					-2.5		104	103
Barium	2.0	495					5.7	285	538	109
Beryllium	0	475					1.6		556	117
Cadmium	0	940					-5.4		920	98
Calcium	235000	231000					252000	107	255000	110
Chromium	43.0	511					46.0	107	551	108
Cobalt	4.0	461					5.6	140	484	105
Copper	23.0	548					24.7	107	537	98
Iron	95600	94800					94300	99	95500	101
Lead	10.0	61.0					10.5	105	56.2	92
Magnesium	248000	251000					255000	103	257000	102
Manganese	19.0	502					21.5	113	531	106
Nickel	21.0	984					21.8	104	936	95
Potassium	0	0					-48.8		-66.5	
Selenium	0	53.0					9.7		53.1	100
Silver	0	206					-6.9		208	101
Sodium	0	0					1170		962	
Thallium	0	103					0.43		97.3	94
Vanadium	0	494					1.0		518	105
Zinc	28.0	1030					31.7	113	980	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					261000	107	265000	110
Antimony	0	589					3.1		596	101
Arsenic	0	101					-0.62		99.4	98
Barium	2.0	495					5.8	290	545	110
Beryllium	0	475					1.6		558	117
Cadmium	0	940					-5.3		908	97
Calcium	235000	231000					254000	108	257000	111
Chromium	43.0	511					45.7	106	554	108
Cobalt	4.0	461					5.5	138	480	104
Copper	23.0	548					23.1	100	535	98
Iron	95600	94800					94600	99	95800	101
Lead	10.0	61.0					10.8	108	59.5	98
Magnesium	248000	251000					256000	103	259000	103
Manganese	19.0	502					21.4	113	534	106
Nickel	21.0	984					21.2	101	921	94
Potassium	0	0					2.4		-7.2	
Selenium	0	53.0					7.8		50.8	96
Silver	0	206					-7.3		210	102
Sodium	0	0					921		856	
Thallium	0	103					0.13		98.5	96
Vanadium	0	494					1.1		526	106
Zinc	28.0	1030					31.5	113	974	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000	247000	101	252000	105	255000	105	257000	107
Antimony	0	589	3.8		604	103	2.9		607	103
Arsenic	0	101	4.3		100	99	2.2		103	102
Barium										
Beryllium	0	475	1.3		513	108	1.5		523	110
Cadmium	0	940	-5.5		977	104	-5.7		950	101
Calcium	235000	231000	244000	104	249000	108	247000	105	248000	107
Chromium	43.0	511	44.2	103	529	104	44.7	104	531	104
Cobalt	4.0	461	6.0	150	487	106	5.8	145	483	105
Copper	23.0	548	23.5	102	528	96	23.3	101	538	98
Iron	95600	94800	95000	99	97100	102	96300	101	96300	102
Lead	10.0	61.0	11.3	113	61.7	101	10.7	107	60.1	99
Magnesium	248000	251000	256000	103	261000	104	259000	104	258000	103
Manganese	19.0	502	21.0	111	516	103	21.2	112	518	103
Nickel										
Potassium										
Selenium	0	53.0	13.3		53.9	102	3.9		56.1	106
Silver	0	206	-6.9		205	100	-6.9		205	100
Sodium										
Thallium	0	103	-0.96		95.9	93	-0.67		94.4	92
Vanadium	0	494	0.84		486	98	0.97		489	99
Zinc	28.0	1030	32.0	114	1050	102	35.9	128	1050	102

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					253000	104	251000	104
Antimony	0	589					4.2		601	102
Arsenic	0	101					0.17		104	103
Barium										
Beryllium	0	475					1.9		513	108
Cadmium	0	940					-5.7		947	101
Calcium	235000	231000					248000	106	243000	105
Chromium	43.0	511					44.4	103	569	111
Cobalt	4.0	461					5.9	148	481	104
Copper	23.0	548					23.8	103	518	95
Iron	95600	94800					96100	101	94800	100
Lead	10.0	61.0					10.8	108	58.4	96
Magnesium	248000	251000					259000	104	254000	101
Manganese	19.0	502					21.3	112	508	101
Nickel										
Potassium										
Selenium	0	53.0					8.2		54.8	103
Silver	0	206					-7.0		218	106
Sodium										
Thallium	0	103					-0.43		94.1	91
Vanadium	0	494					1.1		489	99
Zinc	28.0	1030					31.6	113	1030	100

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					254000	104	253000	105
Antimony	0	589					3.9		602	102
Arsenic	0	101					3.5		101	100
Barium										
Beryllium	0	475					1.5		517	109
Cadmium	0	940					-5.7		945	101
Calcium	235000	231000					248000	106	249000	108
Chromium	43.0	511					44.4	103	523	102
Cobalt	4.0	461					5.8	145	480	104
Copper	23.0	548					23.0	100	527	96
Iron	95600	94800					95900	100	96200	101
Lead	10.0	61.0					11.0	110	58.4	96
Magnesium	248000	251000					258000	104	259000	103
Manganese	19.0	502					20.8	109	517	103
Nickel										
Potassium										
Selenium	0	53.0					7.6		57.4	108
Silver	0	206					-7.1		204	99
Sodium										
Thallium	0	103					-3.1		93.9	91
Vanadium	0	494					1.1		494	100
Zinc	28.0	1030					34.0	121	1030	100

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					250000	102	252000	105
Antimony	0	589					3.7		592	101
Arsenic	0	101					0.63		101	100
Barium										
Beryllium	0	475					1.6		517	109
Cadmium	0	940					-5.6		944	100
Calcium	235000	231000					247000	105	249000	108
Chromium	43.0	511					44.6	104	526	103
Cobalt	4.0	461					5.6	140	478	104
Copper	23.0	548					23.5	102	519	95
Iron	95600	94800					95400	100	96400	102
Lead	10.0	61.0					9.9	99	60.5	99
Magnesium	248000	251000					258000	104	260000	104
Manganese	19.0	502					21.0	111	518	103
Nickel										
Potassium										
Selenium	0	53.0					7.2		54.6	103
Silver	0	206					-7.1		202	98
Sodium										
Thallium	0	103					-2.3		97.3	94
Vanadium	0	494					0.88		504	102
Zinc	28.0	1030					32.6	116	1040	101

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					251000	103	255000	106
Antimony	0	589					3.4		601	102
Arsenic	0	101					0.88		103	102
Barium										
Beryllium	0	475					1.8		528	111
Cadmium	0	940					-5.6		939	100
Calcium	235000	231000					245000	104	250000	108
Chromium	43.0	511					44.1	103	544	106
Cobalt	4.0	461					5.6	140	482	105
Copper	23.0	548					23.4	102	527	96
Iron	95600	94800					94200	99	96300	102
Lead	10.0	61.0					8.7	87	58.3	96
Magnesium	248000	251000					254000	102	260000	104
Manganese	19.0	502					21.0	111	520	104
Nickel										
Potassium										
Selenium	0	53.0					4.9		52.3	99
Silver	0	206					-7.6		209	101
Sodium										
Thallium	0	103					-1.3		94.4	92
Vanadium	0	494					0.90		508	103
Zinc	28.0	1030					33.7	120	1020	99

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00X4S

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	18.3554		2.3104	J	24.48	66	N	P
Arsenic	75-125	16.0393		6.3732		9.79	99		P
Barium	75-125	624.2500		101.5251		489.60	107		P
Beryllium	75-125	12.9089		0.5955	J	12.24	101		P
Cadmium	75-125	11.4041		0.6120	U	12.24	93		P
Calcium									NR
Chromium	75-125	56.0685		10.5968		48.96	93		P
Cobalt	75-125	124.2997		5.4644	J	122.40	97		P
Copper	75-125	136.3741		65.1965		61.20	116		P
Iron									NR
Lead		124.3229		103.1891		4.90	431		P
Magnesium									NR
Manganese		807.4715		749.9888		122.40	47		P
Mercury	75-125	0.7142		0.1285		0.61	96		CV
Nickel	75-125	167.2082		53.3194		122.40	93		P
Potassium									NR
Selenium	75-125	12.2806		1.7981	J	12.24	86		P
Silver	75-125	17.2793		1.2240	U	12.24	141	N	P
Sodium									NR
Thallium	75-125	11.1724		3.0600	U	12.24	91		P
Vanadium	75-125	133.7814		18.2628		122.40	94		P
Zinc		1223.4562		1033.0887		122.40	156		P
Cyanide	75-125	6.6575		3.0600	U	6.12	109		AS

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00X4A

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		198.70		18.88	J	120.0	150		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME00X4D

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 81.7 % Solids for Duplicate: 83.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		7137.5526		6730.6261		6		P
Antimony		2.3104	J	3.8866	J	51		P
Arsenic		6.3732		7.3841		15		P
Barium	24.5	101.5251		107.2293		5		P
Beryllium		0.5955	J	0.6022	J	1		P
Cadmium		0.6120	U	0.6120	U			P
Calcium		43886.3647		84868.1395		64	*	P
Chromium		10.5968		10.7242		1		P
Cobalt		5.4644	J	5.7002	J	4		P
Copper		65.1965		78.9032		19		P
Iron		13004.9755		15473.8494		17		P
Lead		103.1891		161.9925		44	*	P
Magnesium	612.0	2937.0588		4625.3715		45	*	P
Manganese		749.9888		921.4176		21	*	P
Mercury	0.1	0.1285		0.0851	J	41		CV
Nickel		53.3194		57.2317		7		P
Potassium		524.2613	J	514.3009	J	2		P
Selenium		1.7981	J	1.5176	J	17		P
Silver		1.2240	U	1.2240	U			P
Sodium		111.6271	J	148.9009	J	29		P
Thallium		3.0600	U	3.0600	U			P
Vanadium	6.1	18.2628		18.5864		2		P
Zinc		1033.0887		1213.9092		16		P
Cyanide		3.0600	U	3.0600	U			AS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument Type: AS Instrument ID: CN Date: 01/08/2009

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury		0.1	
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide	578.00	2.5	0.048

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument Type: AS Instrument ID: CN Date: 01/07/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	1.8

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument Type: CV Instrument ID: CV2 Date: 01/08/2009

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury	253.70	0.1	0.020
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: HS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	20	0.70
Antimony	206.83	6	0.80
Arsenic	189.04	1	0.21
Barium	493.41	20	0.47
Beryllium	234.86	0.5	0.060
Cadmium	214.44	0.5	0.050
Calcium	373.69	500	18.2
Chromium	267.72	1	0.11
Cobalt	228.62	5	0.56
Copper	324.75	2.5	0.54
Iron	259.84	10	3.9
Lead	220.35	1	0.18
Magnesium	279.08	500	11.3
Manganese	257.61	1.5	0.31
Mercury		0.1	
Nickel	231.60	4	0.38
Potassium	769.90	500	9.7
Selenium	196.09	3.5	0.49
Silver	328.07	1	0.090
Sodium	818.33	500	2.1
Thallium	190.86	2.5	0.32
Vanadium	292.40	5	0.78
Zinc	213.86	6	0.70
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	200	12.5
Antimony	206.83	60	6.6
Arsenic	189.04	10	3.1
Barium	493.41	200	4.5
Beryllium	234.86	5	0.60
Cadmium	214.44	5	0.40
Calcium	373.69	5000	32.6
Chromium	267.72	10	1.0
Cobalt	228.62	50	5.0
Copper	324.75	25	5.1
Iron	259.84	100	18.1
Lead	220.35	10	2.0
Magnesium	279.08	5000	41.3
Manganese	257.61	15	1.8
Mercury		0.2	
Nickel	231.60	40	3.5
Potassium	769.90	5000	82.2
Selenium	196.09	35	5.4
Silver	328.07	10	1.0
Sodium	818.33	5000	33.8
Thallium	190.86	25	3.5
Vanadium	292.40	50	7.5
Zinc	213.86	60	5.0
Cyanide		10	

Comments:

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	11/02/2009		100
CCV	11/02/2009		100
CRI	11/02/2009		100
ICB	11/02/2009		100
ICV	11/02/2009		100
LCSS	11/02/2009	0.20	100
ME00X4	11/02/2009	0.20	100
ME00X4D	11/02/2009	0.20	100
ME00X4S	11/02/2009	0.20	100
ME00X5	11/02/2009	0.20	100
ME00X6	11/02/2009	0.22	100
ME00X7	11/02/2009	0.21	100
ME00X8	11/02/2009	0.22	100
ME00X9	11/02/2009	0.22	100
ME00Y0	11/02/2009	0.21	100
PBS	11/02/2009	0.20	100
S0	11/02/2009		100
S0.2	11/02/2009		100
S2.5	11/02/2009		100
S5.0	11/02/2009		100
S7.5	11/02/2009		100
S10.0	11/02/2009		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	10/28/2009		50
LCSS	10/28/2009	1.04 ~~1.00~~	50
ME00X4	10/28/2009	1.04 1.00 w 1-8-10	50
ME00X4D	10/28/2009	1.08 1.00	50
ME00X4S	10/28/2009	1.02 ~~1.00~~	50
ME00X5	10/28/2009	1.07	50
ME00X6	10/28/2009	1.01	50
ME00X7	10/28/2009	1.04	50
ME00X8	10/28/2009	1.01	50
ME00X9	10/28/2009	1.03	50
ME00Y0	10/28/2009	1.03	50
MIDRANGE	10/28/2009		50
PBS	10/28/2009	1.06 ~~1.00~~ w 1-8-10	50

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Preparation Method: HS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	10/27/2009	1.00	100
ME00X4	10/27/2009	1.00	100
ME00X4D	10/27/2009	1.00	100
ME00X4S	10/27/2009	1.00	100
ME00X5	10/27/2009	1.34	100
ME00X6	10/27/2009	1.43	100
ME00X7	10/27/2009	1.22	100
ME00X8	10/27/2009	1.14	100
ME00X9	10/27/2009	1.10	100
ME00Y0	10/27/2009	1.06	100
PBS	10/27/2009	1.00	100

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1521																								X		
S5.0	1.0	1521																								X		
S10.0	1.0	1521																								X		
S100.0	1.0	1521																								X		
S250.0	1.0	1521																								X		
S500.0	1.0	1521																								X		
ICV	1.0	1540																								X		
ICV	1.0	1540																								X		
ICV	1.0	1540																								X		
ICB	1.0	1540																								X		
CRI	1.0	1557																								X		
CCV	1.0	1557																								X		
CCB	1.0	1557																								X		
MIDRANGE	1.0	1557																								X		
MIDRANGE	1.0	1557																								X		
MIDRANGE	1.0	1557																								X		
ZZZZZZ	1.0	1557																										
ZZZZZZ	1.0	1611																										
PBS	1.0	1611																								X		
ZZZZZZ	1.0	1611																										
ZZZZZZ	1.0	1611																										
LCSS	1.0	1611																								X		
ZZZZZZ	1.0	1619																										
CCV	1.0	1622																								X		
CCB	1.0	1622																								X		
ZZZZZZ	1.0	1622																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1638																										
ZZZZZZ	1.0	1638																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.0	1638																											
CRI	1.0	1731																								X			
CCV	1.0	1731																								X			
CCB	1.0	1731																								X			
ZZZZZZ	1.0	1731																											
ZZZZZZ	1.0	1739																											
ZZZZZZ	1.0	1739																											
ZZZZZZ	1.0	1739																											
ZZZZZZ	1.0	1755																											
ZZZZZZ	1.0	1759																											
ZZZZZZ	1.0	1759																											
ZZZZZZ	1.0	1809																											
ZZZZZZ	1.0	1809																											
ZZZZZZ	1.0	1809																											
CCV	1.0	1809																								X			
CCB	1.0	1809																								X			
ZZZZZZ	1.0	1809																											
ZZZZZZ	1.0	1809																											
ZZZZZZ	1.0	1809																											
ZZZZZZ	1.0	1809																											
ZZZZZZ	1.0	1809																											
ZZZZZZ	1.0	1815																											
ZZZZZZ	1.0	1815																											
ZZZZZZ	1.0	1815																											
ZZZZZZ	1.0	1815																											
CRI	1.0	1815																								X			
CCV	1.0	1815																								X			
CCB	1.0	1815																								X			
ZZZZZZ	1.0	1815																											
ZZZZZZ	1.0	1823																											
ZZZZZZ	1.0	1830																											
ZZZZZZ	1.0	1830																											
ZZZZZZ	1.0	1830																											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1831																										
CCV	1.0	1831																								X		
CCB	1.0	1831																								X		
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1841																										
ZZZZZZ	1.0	1841																										
ME00X4	1.0	1847																								X		
ME00X4D	1.0	1847																								X		
ME00X4S	1.0	1847																								X		
ME00X5	1.0	1852																								X		
ME00X6	1.0	1852																								X		
ME00X7	1.0	1852																								X		
CRI	1.0	1852																								X		
CCV	1.0	1852																								X		
CCB	1.0	1852																								X		
ME00X8	1.0	1852																								X		
ME00X9	1.0	1859																								X		
ME00Y0	1.0	1859																								X		
CRI	1.0	1903																								X		
CCV	1.0	1903																								X		
CCB	1.0	1903																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.0	1258															X												
S0.2	1.0	1300															X												
S2.5	1.0	1302															X												
S5.0	1.0	1304															X												
S7.5	1.0	1306															X												
S10.0	1.0	1308															X												
ICV	1.0	1312															X												
ICB	1.0	1314															X												
CRI	1.0	1316															X												
CCV	1.0	1318															X												
CCB	1.0	1320															X												
ZZZZZZ	1.0	1322																											
ZZZZZZ	1.0	1324																											
ZZZZZZ	1.0	1326																											
ZZZZZZ	1.0	1329																											
ZZZZZZ	1.0	1331																											
ZZZZZZ	1.0	1333																											
ZZZZZZ	1.0	1335																											
ZZZZZZ	1.0	1337																											
ZZZZZZ	1.0	1339																											
ZZZZZZ	1.0	1341																											
CCV	1.0	1343															X												
CCB	1.0	1345															X												
ZZZZZZ	1.0	1348																											
ZZZZZZ	1.0	1350																											
ZZZZZZ	1.0	1351																											
ZZZZZZ	1.0	1354																											
ZZZZZZ	1.0	1355																											
ZZZZZZ	1.0	1357																											
ZZZZZZ	1.0	1400																											
CRI	1.0	1402															X												
CCV	1.0	1427															X												
CCB	1.0	1429															X												

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1431																										
ZZZZZZ	1.0	1433																										
ZZZZZZ	1.0	1435																										
ZZZZZZ	1.0	1437																										
ZZZZZZ	1.0	1440																										
ZZZZZZ	1.0	1442																										
ZZZZZZ	1.0	1444																										
PBS	1.0	1446															X											
LCSS	1.0	1448															X											
ME00X4	1.0	1450															X											
CCV	1.0	1453															X											
CCB	1.0	1455															X											
ME00X4D	1.0	1457															X											
ME00X4S	1.0	1500															X											
ME00X5	1.0	1502															X											
ME00X6	1.0	1504															X											
ME00X7	1.0	1506															X											
ME00X8	1.0	1508															X											
ME00X9	1.0	1510															X											
CRI	1.0	1512															X											
CCV	1.0	1514															X											
CCB	1.0	1516															X											
ME00Y0	1.0	1518															X											
ZZZZZZ	1.0	1520																										
ZZZZZZ	1.0	1522																										
ZZZZZZ	1.0	1524																										
CRI	1.0	1526															X											
CCV	1.0	1528															X											
CCB	1.0	1530															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	2140	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
S	1.0	2143	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICV	1.0	2146	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ICB	1.0	2149	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CRI	1.0	2152		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	2155	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	2158	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	2201	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2204	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	0	2207																										
ZZZZZZ	0	2211																										
ZZZZZZ	0	2214																										
ZZZZZZ	0	2217																										
ZZZZZZ	0	2220																										
ZZZZZZ	0	2223																										
ZZZZZZ	0	2226																										
ZZZZZZ	0	2229																										
ZZZZZZ	0	2232																										
ZZZZZZ	0	2235																										
CCV	1.0	2238	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2241	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	0	2244																										
ZZZZZZ	1.0	2247																										
ZZZZZZ	1.0	2251																										
ZZZZZZ	1.0	2254																										
ZZZZZZ	1.0	2257																										
ZZZZZZ	1.0	2300																										
ZZZZZZ	1.0	2303																										
CRI	1.0	2306		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	2309	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	2312	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	2315	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2318	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			

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USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	2321																										
ZZZZZZ	1.0	2324																										
ZZZZZZ	1.0	2327																										
ZZZZZZ	5.0	2331																										
ZZZZZZ	1.0	2334																										
ZZZZZZ	1.0	2337																										
ZZZZZZ	1.0	2340																										
ZZZZZZ	1.0	2343																										
ZZZZZZ	1.0	2346																										
ZZZZZZ	1.0	2349																										
CCV	1.0	2352	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	2355	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	2358																										
ZZZZZZ	1.0	0001																										
ZZZZZZ	1.0	0004																										
ZZZZZZ	1.0	0007																										
ZZZZZZ	1.0	0011																										
ZZZZZZ	1.0	0014																										
ZZZZZZ	1.0	0017																										
CRI	1.0	0020		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0023	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0026	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0029	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0032	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0035																										
ZZZZZZ	1.0	0038																										
ZZZZZZ	1.0	0041																										
ZZZZZZ	1.0	0044																										
ZZZZZZ	1.0	0047																										
PBS	1.0	0051	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
LCSS	1.0	0054	X		X	X		X	X		X		X	X	X			X	X	X	X		X					
ME00X4	1.0	0057	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00X4L	5.0	0100	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			

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USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00X4D	1.0	0103	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCV	1.0	0106	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0109	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00X4S	1.0	0112		X	X	X		X			X	X		X		X		X		X	X		X		X			
ME00X5	1.0	0115	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00X6	1.0	0118	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00X7	1.0	0121	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X					
ME00X8	1.0	0124	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00Y0	1.0	0127	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ME00X9	1.0	0130	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CRI	1.0	0133		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0136	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0139	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0142	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0145	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0148																										
ZZZZZZ	1.0	0151																										
ZZZZZZ	1.0	0154																										
ZZZZZZ	1.0	0157																										
ZZZZZZ	1.0	0200																										
ZZZZZZ	1.0	0203																										
ZZZZZZ	1.0	0206																										
ZZZZZZ	1.0	0209																										
ZZZZZZ	1.0	0212																										
ZZZZZZ	5.0	0216																										
CCV	1.0	0219	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0221	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0225																										
ZZZZZZ	1.0	0228																										
ZZZZZZ	1.0	0231																										
ZZZZZZ	1.0	0234																										
ZZZZZZ	1.0	0237																										
ZZZZZZ	1.0	0240																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/06/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	0243																										
CRI	1.0	0246		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0249	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0252	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0255	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0258	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0301																										
ZZZZZZ	1.0	0304																										
ZZZZZZ	1.0	0307																										
ZZZZZZ	1.0	0310																										
ZZZZZZ	1.0	0313																										
ZZZZZZ	1.0	0316																										
ZZZZZZ	1.0	0319																										
ZZZZZZ	1.0	0323																										
ZZZZZZ	1.0	0326																										
ZZZZZZ	1.0	0329																										
CCV	1.0	0332	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0335	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
ZZZZZZ	1.0	0338																										
ZZZZZZ	5.0	0341																										
ZZZZZZ	1.0	0344																										
ZZZZZZ	1.0	0347																										
ZZZZZZ	1.0	0350																										
ZZZZZZ	1.0	0353																										
ZZZZZZ	1.0	0356																										
CRI	1.0	0400		X	X			X			X	X		X		X		X		X	X		X		X			
ICSA	1.0	0403	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
ICSAB	1.0	0406	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X			
CCV	1.0	0409	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			
CCB	1.0	0412	X	X	X	X		X	X		X	X	X	X	X	X		X	X	X	X		X		X			

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13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1503	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
S	1.0	1506	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICV	1.0	1510		X			X			X		X				X						X		X	X			
ICB	1.0	1513		X			X			X		X				X						X		X	X			
CRI	1.0	1516		X			X			X		X				X								X	X			
ICSA	1.0	1519	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	1522	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	1525		X			X			X		X				X						X		X	X			
CCB	1.0	1528		X			X			X		X				X						X		X	X			
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1534																										
ZZZZZZ	1.0	1537																										
ZZZZZZ	5.0	1540																										
ZZZZZZ	1.0	1544																										
ZZZZZZ	1.0	1547																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1553																										
ZZZZZZ	1.0	1556																										
PBS	1.0	1559		X			X			X		X				X						X		X	X			
CCV	1.0	1602		X			X			X		X				X						X		X	X			
CCB	1.0	1605		X			X			X		X				X						X		X	X			
LCSS	1.0	1608		X			X			X		X				X						X		X	X			
ME00X4	1.0	1611					X			X												X		X				
ME00X4L	5.0	1614					X			X												X		X				
ME00X4D	1.0	1617					X			X												X		X				
ME00X4S	1.0	1620					X			X														X				
ME00X5	1.0	1623					X			X												X		X				
ME00X6	1.0	1626					X			X												X		X				
CRI	1.0	1629		X			X			X		X				X								X	X			
ICSA	1.0	1633	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	1636	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	1639		X			X			X		X				X						X		X	X			
CCB	1.0	1642		X			X			X		X				X						X		X	X			

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13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00X7	1.0	1645					X			X												X		X				
ME00X8	1.0	1648					X			X												X		X				
ME00X9	1.0	1651					X			X												X		X				
ME00Y0	1.0	1654					X			X												X		X				
ZZZZZZ	1.0	1657																										
ZZZZZZ	1.0	1700																										
ZZZZZZ	1.0	1703																										
ZZZZZZ	1.0	1706																										
ZZZZZZ	1.0	1709																										
ZZZZZZ	1.0	1712																										
CCV	1.0	1715		X			X			X		X				X						X		X	X			
CCB	1.0	1718		X			X			X		X				X						X		X	X			
ZZZZZZ	1.0	1721																										
ZZZZZZ	1.0	1724																										
ZZZZZZ	1.0	1727																										
ZZZZZZ	5.0	1730																										
ZZZZZZ	1.0	1733																										
ZZZZZZ	1.0	1736																										
ZZZZZZ	1.0	1739																										
CRI	1.0	1742		X			X			X		X				X								X	X			
ICSA	1.0	1745	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	1748	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	1751		X			X			X		X				X						X		X	X			
CCB	1.0	1754		X			X			X		X				X						X		X	X			
ZZZZZZ	1.0	1757																										
ZZZZZZ	1.0	1800																										
ZZZZZZ	1.0	1803																										
ZZZZZZ	1.0	1806																										
ZZZZZZ	1.0	1809																										
ZZZZZZ	1.0	1812																										
ZZZZZZ	1.0	1815																										
ZZZZZZ	1.0	1818																										
ZZZZZZ	1.0	1822																										

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13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1825																										
CCV	1.0	1828		X			X			X		X				X						X		X	X			
CCB	1.0	1831		X			X			X		X				X						X		X	X			
ZZZZZZ	1.0	1834																										
ZZZZZZ	1.0	1837																										
CRI	1.0	1840		X			X			X		X				X								X	X			
ICSA	1.0	1843	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	1846	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	1849		X			X			X		X				X						X		X	X			
CCB	1.0	1852		X			X			X		X				X						X		X	X			
ZZZZZZ	0	1855																										
ME00X4A	1.0	1858		X																								
ZZZZZZ	1.0	1901																										
ZZZZZZ	1.0	1904																										
ME00X7	10	1907																										
ZZZZZZ	3.0	1910																										
ZZZZZZ	4.0	1913																										
ZZZZZZ	5.0	1917																										
ZZZZZZ	0	1920																										
ZZZZZZ	0	1923																										
CCV	1.0	1926		X			X			X		X				X						X		X	X			
CCB	1.0	1929		X			X			X		X				X						X		X	X			
ZZZZZZ	1.0	1932																										
ZZZZZZ	1.0	1935																										
ZZZZZZ	1.0	1938																										
ZZZZZZ	1.0	1941																										
ZZZZZZ	1.0	1944																										
ZZZZZZ	10	1947																										
ME00X7	25	1950																							X			
CRI	1.0	2003		X			X			X		X				X								X	X			
ICSA	1.0	2007	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
ICSAB	1.0	2010	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X			
CCV	1.0	2013		X			X			X		X				X						X		X	X			

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00X4

Instrument ID: P5 Analysis Method: P

Start Date: 11/07/2009 End Date: 11/07/2009

EPA Sample No.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
CCB	1.0	2016		X			X			X		X				X						X		X	X				
ZZZZZZ	0	2019																											
ZZZZZZ	0	2022																											
ZZZZZZ	0	2025																											
ZZZZZZ	0	2028																											
ZZZZZZ	0	2031																											
ZZZZZZ	0	2034																											
ZZZZZZ	0	2037																											
ZZZZZZ	0	2040																											
ZZZZZZ	0	2043																											
ZZZZZZ	0	2047																											
CCV	1.0	2050		X			X			X		X				X						X		X	X				
CCB	1.0	2052		X			X			X		X				X						X		X	X				
ZZZZZZ	0	2056																											
ZZZZZZ	0	2059																											
ZZZZZZ	0	2102																											
ZZZZZZ	0	2105																											
ZZZZZZ	0	2108																											
ZZZZZZ	0	2111																											
ZZZZZZ	0	2114																											
CRI	1.0	2117		X			X			X		X				X								X	X				
ICSA	1.0	2120	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X				
ICSAB	1.0	2124	X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X				
CCV	1.0	2127		X			X			X		X				X						X		X	X				
CCB	1.0	2129		X			X			X		X				X						X		X	X				

FORM XIII-IN ILM05.4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: M8OOX4 CERCLIS No: ILD053980475

Case No: 39143 Site Name/Location: Sandoval Zinc (IL)

Contractor or EPA Lab: ChemTech Data User: IEPA

No. of Samples: 7 Date Sampled or Date Received: 14 NOV 09

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: 7 No. of samples received: ____

Received by: [illegible] Date: 16 NOV 09

Received by LSSS: [illegible] Date: 18 NOV 09

Review started: 1-7-10 Reviewer Signature: [illegible]

Total time spent on review: 9 Date review completed: 1-11-10

Copied by: C. C. Harvey +1.3 DRV Date: Jan 26, 2010

Mailed to user by: [illegible] Date: 27 JAN 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

ESAT Controlled Number: ESAT5.17.01016 - 8 FEB 10

DATE: February 8, 2010

IEPA
Attn: Mr. Mark Wagner
1001 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: **Sandoval Zinc (IL)**

Case	Lab	Samples	SDG	Matrix
39143	ChemTech	19	ME00R4	soil

Analysis: metals and cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

FEB 10 2010

Sent By: Pat Joyner
Data Coordinator

Controlled Document

ESAT5.15.00408
ACH
2-3-10

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/6/10

SUBJECT: Review of Data
Received for review on 11/13/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Sandoval Zinc (IL)

CASE NUMBER: 39143 **SDG NUMBER:** ME00R4

Number and Type of Samples: 19 soils

Sample Numbers: ME00R4-R9, S0-S9, T0-T1, T6

Laboratory: Chemtech **Hrs. for Review:** 13.0 + 2.5 2/3/10

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nineteen (19) soil samples, numbered ME00R4-R9, S0-S9, T0-T1, T6, were collected on October 19-20, 2009. The lab received the samples on October 23, 2009 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

On the Traffic Report/Chain of Custody Record, it states that the soil samples were preserved with NaOH. No sample results are qualified for this.

No raw data for percent solids was provided. Percent solids data were presented on a computer generated spreadsheet. Percent solids calculations used by the laboratory were frequently rounded incorrectly. Thirteen out of the nineteen values reported by the laboratory were rounded up when they should not have been. The incorrectly reported percent solids results can result in low biased sample results. The reported results were corrected on samples ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S3, ME00S4, ME00S6, ME00S8, ME00S9, ME00T0, ME00T1 and ME00T6 by this reviewer.

Two prepped sample weights (ME00R5 and ME00R6) were entered incorrectly on Form 12 for mercury. Five prepped sample weights (PBS, LCSS, ME00S0, ME00S0D and ME00S0S) were entered incorrectly on Form 12 for cyanide. Values were corrected by this reviewer. All corrected values were used for sample result verification.

The conversion calculation formula provided in the laboratory case narrative does not include unit values for several of the variables or multipliers within the equation. Reported sample results are calculated correctly.

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Mercury

ME00S6

Sodium

ME00R4, ME00R5, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Mercury

ME00R4, ME00R5, ME00T0, ME00T1

Cyanide

ME00R9

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. No post spike was required.

Hits are qualified "J+"; non-detects are not qualified.

Silver

ME00S4

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. No post spike was required.

The samples are also associated with a negative ICSA sample whose absolute value is greater than the MDL (see ICP Analysis Section 6 below).

Hits are qualified "J".

Silver

ME00R6, ME00R7, ME00R8, ME00S6, ME00S8, ME00S9

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Cadmium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Manganese

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Aluminum

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Barium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Calcium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Copper

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Iron

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Magnesium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Manganese

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Sodium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Zinc

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Beryllium

ME00R4, ME00R7, ME00S0, ME00S1, ME00S2, ME00S3, ME00S5, ME00S6,

ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Selenium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00S0, ME00S1, ME00S2, ME00S3, ME00S5, ME00S6, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Cadmium

ME00T1, ME00T6

Silver

ME00R4, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S5, ME00T0, ME00T1, ME00T6

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA. The results are also associated with a high matrix spike recovery (see Matrix Spike Section 4 above).

Hits less than 10 times the absolute value of the ICSA are qualified "J". Hits greater than 10 times the ICSA are not qualified.

Silver

ME00R6, ME00R7, ME00R8, ME00S6, ME00S8, ME00S9

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference. Dilutions performed for other elements were no longer greater than the CRQL. Undiluted results would have been considered rejected "R"; reported results were changed to diluted values by this reviewer. Detection limits for reported results are elevated.

Non-detects are qualified "U".

Silver

ME00R5, ME00R9, ME00T0

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony

ME00T1, ME00T6

Beryllium
ME00R7, ME00S4, ME00S7, ME00S9

Cobalt
ME00S3, ME00S4, ME00S9, ME00T6

Magnesium
ME00R7

Mercury
ME00R4, ME00R5, ME00T0, ME00T1

Potassium
ME00R7, ME00R9, ME00S0, ME00S1, ME00S2, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0

Selenium
ME00R4, ME00S0, ME00S1, ME00S3, ME00S4, ME00S6, ME00S7, ME00S8, ME00S9, ME00T1, ME00T6

Silver
ME00R8, ME00S4, ME00S6, ME00S8, ME00S9

Cyanide
ME00R9

All data, except those qualified above, are acceptable.

Reviewed by: Stephen Connet
Date: January 6, 2010

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 39143
SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	ME00R4		ME00R5		ME00R6		ME00R7		ME00R8	
Sampling Location :	X201		X202		X301		X302		X303	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/19/2009		10/19/2009		10/19/2009		10/19/2009		10/19/2009	
Time Sampled :										
%Solids :	59.3		71.1		75.7		62.4		76.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	11900	J	10700	J	13400	J	5210	J	7810	J
ANTIMONY	11.7	J	20.6	J	212	J	98.9	J	196	J
ARSENIC	16.9		75.4		70.4		55.3		26.3	
BARIUM	195	J	215	J	733	J	115	J	108	J
BERYLLIUM	0.83	J+	1.1		1.0		0.53	J+	0.99	
CADMIUM	26.7	J	22.5	J	64.9	J	16.9	J	23.9	J
CALCIUM	2800	J	2030	J	13600	J	861	J	2480	J
CHROMIUM	16.6		23.4		128		21.9		40.8	
COBALT	9.6		13.0		15.5		7.2		19.6	
COPPER	270	J	297	J	3640	J	2250	J	1720	J
IRON	20000	J	34700	J	42700	J	23500	J	31400	J
LEAD	625		1580		12500		37600		1950	
MAGNESIUM	1290	J	1080	J	2440	J	469	J	628	J
MANGANESE	763	J	1510	J	914	J	295	J	372	J
MERCURY	0.035	J-	0.12	J-	3.6		2.3		0.19	
NICKEL	58.3		84.1		668		491		1780	
POTASSIUM	905		641		786		190	J	540	
SELENIUM	3.4	J+	5.5	J+	6.8	J+	8.4	J+	5.4	J+
SILVER	1.1	UJ	0.99	UJ	4.3	J	6.6	J	0.49	J
SODIUM	570	UJ	495	UJ	1130	J	668	UJ	515	UJ
THALLIUM	2.8	U	2.5	U	2.7	U	3.3	U	2.6	U
VANADIUM	45.0		72.8		41.8		22.9		26.6	
ZINC	4340	J	5750	J	205000	J	278000	J	31100	J
CYANIDE	4.1	U	3.3	U	3.2	U	3.8	U	3.2	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Sample Number :	ME00R9		ME00S0		ME00S1		ME00S2		ME00S3	
Sampling Location :	X304		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/19/2009		10/20/2009		10/20/2009		10/20/2009		10/20/2009	
Time Sampled :										
%Solids :	81.7		71.9		77.4		77.7		71.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6410	J	8700	J	7060	J	7120	J	13700	J
ANTIMONY	57.7	J	41.8	J	44.0	J	39.9	J	9.5	J
ARSENIC	61.5		27.8		15.5		19.3		6.4	
BARIUM	278	J	327	J	194	J	158	J	129	J
BERYLLIUM	0.99		0.80	J+	0.60	J+	0.72	J+	0.69	J+
CADMIUM	30.0	J	23.2	J	9.5	J	10.6	J	45.4	J
CALCIUM	5930	J	1930	J	1290	J	1340	J	2470	J
CHROMIUM	157		17.2		14.4		17.4		16.3	
COBALT	11.9		18.0		10.3		10.6		5.4	J
COPPER	537	J	1950	J	1130	J	1260	J	352	J
IRON	114000	J	25200	J	17500	J	21900	J	12700	J
LEAD	2150		2460		1230		1380		853	
MAGNESIUM	2040	J	970	J	769	J	764	J	1480	J
MANGANESE	1940	J	2160	J	1160	J	1070	J	257	J
MERCURY	1.0		0.33		0.17		0.21		0.15	
NICKEL	193		122		92.6		88.9		113	
POTASSIUM	205	J	526	J	366	J	338	J	1010	
SELENIUM	16.2		3.5	J+	2.9	J+	3.1	J+	2.4	J+
SILVER	38.2	UJ	1.4	UJ	1.1	UJ	0.88	UJ	1.1	UJ
SODIUM	478	UJ	695	UJ	557	UJ	441	UJ	564	UJ
THALLIUM	2.4	U	3.5	U	2.8	U	2.2	U	2.8	U
VANADIUM	26.0		46.2		36.4		42.4		26.7	
ZINC	204000	J	5430	J	4410	J	4960	J	10500	J
CYANIDE	0.96	J-	3.4	U	3.0	U	3.2	U	3.4	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Sample Number :	ME00S4		ME00S5		ME00S6		ME00S7		ME00S8	
Sampling Location :	X207		X208		X209		X210		X211	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/20/2009		10/20/2009		10/20/2009		10/20/2009		10/20/2009	
Time Sampled :										
%Solids :	72.2		72.2		79.6		66.6		74.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7090	J	9700	J	7760	J	8610	J	9190	J
ANTIMONY	17.7	J	50.3	J	99.9	J	37.6	J	74.5	J
ARSENIC	7.4		30.2		17.8		9.0		17.5	
BARIUM	145	J	425	J	121	J	126	J	162	J
BERYLLIUM	0.44	J	1.2	J+	0.63	J+	0.58	J	0.69	J+
CADMIUM	6.7	J	23.1	J	5.8	J	4.6	J	10.0	J
CALCIUM	1830	J	2590	J	1250	J	1570	J	1870	J
CHROMIUM	9.4		22.7		13.0		13.8		40.3	
COBALT	3.2	J	27.2		7.8		6.7		11.6	
COPPER	1520	J	1410	J	1710	J	1580	J	3290	J
IRON	10300	J	38900	J	18100	J	11800	J	22300	J
LEAD	1560		2630		1690		1570		2010	
MAGNESIUM	861	J	1020	J	823	J	821	J	838	J
MANGANESE	230	J	3550	J	760	J	378	J	529	J
MERCURY	0.28		0.32		0.20	U	0.28		0.29	
NICKEL	42.1		188		51.3		104		1200	
POTASSIUM	459	J	607	J	400	J	530	J	372	J
SELENIUM	1.8	J	5.9	J+	2.7	J+	2.3	J	3.3	J+
SILVER	0.18	J+	1.3	UJ	0.46	J	1.3	U	0.90	J
SODIUM	602	UJ	660	UJ	523	UJ	647	UJ	513	UJ
THALLIUM	3.0	U	3.3	U	2.6	U	3.2	U	2.6	U
VANADIUM	19.2		70.5		36.9		27.6		34.3	
ZINC	3990	J	9420	J	3630	J	3850	J	22800	J
CYANIDE	3.4	U	3.4	U	3.1	U	3.8	U	3.2	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Sample Number :	ME00S9		ME00T0		ME00T1		ME00T6			
Sampling Location :	X212		X213		X214		X215			
Matrix :	Soil		Soil		Soil		Soil			
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled :	10/20/2009		10/20/2009		10/20/2009		10/20/2009			
Time Sampled :										
%Solids :	75.6		71.2		71.9		65.3			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	10000	J	9320	J	9360	J	10500	J		
ANTIMONY	24.1	J	13.6	J	2.1	J	1.9	J		
ARSENIC	15.6		39.0		6.9		5.1			
BARIUM	125	J	783	J	131	J	121	J		
BERYLLIUM	0.56	J+	1.1	J+	0.64	J+	0.71	J+		
CADMIUM	8.2	J	15.3	J	0.63	UJ	0.64	UJ		
CALCIUM	1960		3050		2360		2660			
CHROMIUM	14.8		18.7		12.6		12.9			
COBALT	4.6	J	24.7		7.5		3.4	J		
COPPER	578	J	230	J	31.0	J	32.5	J		
IRON	13600	J	48100	J	16500	J	15800	J		
LEAD	1230		1070		63.5		90.1			
MAGNESIUM	1370	J	953	J	1050	J	1150	J		
MANGANESE	204	J	7810	J	689	J	203	J		
MERCURY	0.13	U	0.046	J-	0.031	J-	0.15	U		
NICKEL	194		95.8		17.3		12.1			
POTASSIUM	513	J	421	J	699		889			
SELENIUM	2.1	J+	6.1	J+	2.4	J+	2.7	J+		
SILVER	0.31	J	4.3	UJ	1.3	UJ	1.3	UJ		
SODIUM	601	UJ	532	UJ	632	UJ	638	UJ		
THALLIUM	3.0	U	2.7	U	3.2	U	3.2	U		
VANADIUM	23.1		48.1		28.8		26.1			
ZINC	11800	J	9470	J	484	J	332	J		
CYANIDE	3.1	U	3.5	U	3.2	U	3.6	U		

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39143
DAS No:
SDG No: ME00R4

L9

Date Shipped: 10/22/2009
Carrier Name: UPS
Airbill: 1Z62 5892210084364
Shipped to: ChemTech Consulting Group
284 Sheffield Street
Mountainside NJ 07092
(908) 789-8900

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	10/22/09 / 12:00		
2			
3			
4		SINEMAC MEGNA	10/23/09 9:50

Sampler Signature: Ken Corkill

For Lab Use Only
Lab Contract No: EPW08065
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00R4	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105164 (NaOH) (1)	X201	S: 10/19/2009 16:00		
ME00R5	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105165 (NaOH) (1)	X202	S: 10/19/2009 15:30		
ME00R6	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105166 (NaOH) (1)	X301	S: 10/19/2009 13:30		
ME00R7	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105167 (NaOH) (1)	X302	S: 10/19/2009 14:00		
ME00R8	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105168 (NaOH) (1)	X303	S: 10/19/2009 14:30		
ME00R9	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105169 (NaOH) (1)	X304	S: 10/19/2009 14:45		
ME00S0	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105172 (NaOH) (1)	X203	S: 10/20/2009 9:00		
ME00S1	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105173 (NaOH) (1)	X204	S: 10/20/2009 9:30		
ME00S2	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105174 (NaOH) (1)	X205	S: 10/20/2009 9:30		
ME00S3	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105175 (NaOH) (1)	X206	S: 10/20/2009 10:00		

Shipment for Case Complete?Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 27650
Analysis Key: ICP, Hg,CN = CLP ICP Metals, Hg, CN	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? +	Shipment Iced? +

TR Number: 5-162075208-102209-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39143
DAS No:
SDG No: ME00P4

L

Date Shipped:	10/22/2009
Carrier Name:	UPS
Airbill:	1Z6215892210084364
Shipped to:	ChemTech Consulting Group 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	10-22-09 / 1200		
2			
3			
4		Sarina Mehta	10/23/09 9:50

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW08065
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00S4	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105176 (NaOH) (1)	X207	S: 10/20/2009	10:30		
ME00S5	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105177 (NaOH) (1)	X208	S: 10/20/2009	11:00		
ME00S6	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105178 (NaOH) (1)	X209	S: 10/20/2009	11:45		
ME00S7	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105179 (NaOH) (1)	X210	S: 10/20/2009	12:30		
ME00S8	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105180 (NaOH) (1)	X211	S: 10/20/2009	12:45		
ME00S9	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105181 (NaOH) (1)	X212	S: 10/20/2009	13:00		
ME00T0	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105182 (NaOH) (1)	X213	S: 10/20/2009	13:15		
ME00T1	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105183 (NaOH) (1)	X214	S: 10/20/2009	13:30		
ME00T6	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105189 (NaOH) (1)	X215	S: 10/20/2009	13:45		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 27652
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

ICP, Hg,CN = CLP ICP Metals, Hg, CN

TR Number: 5-162075208-102209-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME00R4
CASE # 39143
CONTRACT # EPW08065
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT #A4823

A. Number of Samples and Date of Receipt

19 Soil Samples were delivered to the laboratory intact on 10/23/09

B. Parameters

Test requested for Metals CLP FULL (by ICP-AES), Hg & CN.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence
Cooler: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue: The TR/COC does not designate a sample as laboratory QC for SDG ME00R4; however, per Scheduling laboratory QC is required. The laboratory would like to select sample ME00S0 as laboratory QC in SDG ME00R4.

E. Corrective Action taken for above:

Resolution: In accordance with previous Direction from Region 5, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for laboratory QC, and proceed with the analysis of the samples. If the laboratory is not sure that the sample they selected is not a PE, blank, or rinsate sample, they will contact SMO and wait for a resolution from the Region.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.4

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

G. Calculation:

Calculation example for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10 (1.0 X10 or 0.50 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10.2 (1.02 X 10 or 0.51 X 20)
(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

Calculation example for Hg Soil Sample:

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1/ 2 (0.2 X 10)
(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 2.1 (0.21 X 10)
(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Calculation example for CN Soil Sample:

Conversion of Results from Ug/L to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in Ug/L for CN) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in CN Soil Prep = 1/20 (1 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 20.2 (1.01 X 20)
(if 1.01 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Etc.

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Cadmium & Silver. Duplicate sample did meet requirements except for Arsenic, Cobalt, Iron, Manganese & Mercury. Serial Dilution did meet requirements except for Aluminum, Barium, Calcium, Copper, Iron, Magnesium, Manganese, Sodium & Zinc.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature M. Dolores Reyes Name: Mildred V. Reyes

Date 11/12/09 Title: Document Control Officer

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Friday, October 23, 2009 1:26 PM
To: Snehal Mehta
Cc: Wagner, Mark; Carlene Thomas; Howard Pham; Warren Layne
Subject: Region 05 | Case 39143 | Lab CHEM | SDG ME00R4 | Issue Insufficient/inappropriate designation of laboratory QC | FINAL
Attachments: Case-39143-LRD-10-23-09.pdf

Snehal,

Summary Start
Issue: The TR/COC does not designate a sample as laboratory QC for SDG ME00R4; however, per Scheduling laboratory QC is required. The laboratory would like to select sample ME00S0 as laboratory QC in SDG ME00R4.
Resolution: In accordance with previous Direction from Region 5, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for laboratory QC, and proceed with the analysis of the samples. If the laboratory is not sure that the sample they selected is not a PE, blank, or rinsate sample, they will contact SMO and wait for a resolution from the Region.

SMO will note the selection of sample ME00S0 as laboratory QC in SDG ME00R4.
Summary End

Please let me know if you have any additional questions.

Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Snehal Mehta [mailto:Snehal@chemtech.net]
Sent: Friday, October 23, 2009 12:59 PM
To: Mroz, Ryan
Subject: Region 5 | Case 39143 | Lab CHEM | Issue Insufficient/inappropriate designation of laboratory QC |

Sara,

Issue : Lab received samples w/o any QC samples listed on TR/COC, lab wanted to Select 'ME00S0'
BDG#ME00R4

Thanks,

Sheral Mehta
184 Sheffield Street
Mountainside, NJ 07092
Phone: (908) 789 3700 Ext: 2153
Direct Line: (800)-926-2184
Fax: (908) 789 8922
www.chemtech.net

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NOV 1 3 2009

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COVER PAGE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME00R4	A4823-01
ME00R5	A4823-02
ME00R6	A4823-03
ME00R7	A4823-04
ME00R8	A4823-05
ME00R9	A4823-06
ME00S0	A4823-07
ME00S0D	A4823-08
ME00S0S	A4823-09
ME00S1	A4823-10
ME00S2	A4823-11
ME00S3	A4823-12
ME00S4	A4823-13
ME00S5	A4823-14
ME00S6	A4823-15
ME00S7	A4823-16
ME00S8	A4823-17
ME00S9	A4823-18
ME00T0	A4823-19
ME00T1	A4823-20
ME00T6	A4823-21

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	

Comments:
THE "E" QUALIFIERS ON FORM I AND VIII FOR ALUMINUM, BARIUM, CALCIUM, COPPER, IRON, MAGNESIUM, MANGANESE, SODIUM AND ZINC INDICATE CHEMICAL OR PHYSICAL INTERFERENCE EFFECTS, WHICH WERE SUSPECTED

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred V. Reyes Name: MILDRED V. REYES

Date: 11/12/09 Title: DOCUMENT CONTROL OFFICER

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-01

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 59.3

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900		E	P
7440-36-0	Antimony	11.7		N	P
7440-38-2	Arsenic	16.9		*	P
7440-39-3	Barium	195		E	P
7440-41-7	Beryllium	0.83			P
7440-43-9	Cadmium	26.7		N	P
7440-70-2	Calcium	2800		E	P
7440-47-3	Chromium	16.6			P
7440-48-4	Cobalt	9.6		*	P
7440-50-8	Copper	270		E	P
7439-89-6	Iron	20000		*E	P
7439-92-1	Lead	625			P
7439-95-4	Magnesium	1290		E	P
7439-96-5	Manganese	763		*E	P
7439-97-6	Mercury	0.035	J	*	CV
7440-02-0	Nickel	58.3			P
7440-09-7	Potassium	905			P
7782-49-2	Selenium	3.4	J		P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	159	J	E	P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	45.0			P
7440-66-6	Zinc	4340		E	P
57-12-5	Cyanide	4.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-02

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.2

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700		E	P
7440-36-0	Antimony	20.6		N	P
7440-38-2	Arsenic	75.3		*	P
7440-39-3	Barium	215		E	P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	22.4		N	P
7440-70-2	Calcium	2030		E	P
7440-47-3	Chromium	23.4			P
7440-48-4	Cobalt	13.0		*	P
7440-50-8	Copper	297		E	P
7439-89-6	Iron	34600		*E	P
7439-92-1	Lead	1580			P
7439-95-4	Magnesium	1080		E	P
7439-96-5	Manganese	1510		*E	P
7439-97-6	Mercury	0.11	J	*	CV
7440-02-0	Nickel	84.0			P
7440-09-7	Potassium	640			P
7782-49-2	Selenium	5.5			P
7440-22-4	Silver	0.99	U	N	P
7440-23-5	Sodium	153	J	E	P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	72.7			P
7440-66-6	Zinc	5740		ED	P
57-12-5	Cyanide	3.3	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-03

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 75.8

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13400		E	P
7440-36-0	Antimony	212		N	P
7440-38-2	Arsenic	70.3		*	P
7440-39-3	Barium	732		E	P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	64.8		N	P
7440-70-2	Calcium	13600		E	P
7440-47-3	Chromium	128			P
7440-48-4	Cobalt	15.5		*	P
7440-50-8	Copper	3640		E	P
7439-89-6	Iron	42600		*E	P
7439-92-1	Lead	12400			P
7439-95-4	Magnesium	2430		E	P
7439-96-5	Manganese	913		*E	P
7439-97-6	Mercury	4.0		*	CV
7440-02-0	Nickel	667			P
7440-09-7	Potassium	785			P
7782-49-2	Selenium	6.8			P
7440-22-4	Silver	4.3		N	P
7440-23-5	Sodium	1130		E	P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	41.7			P
7440-66-6	Zinc	205000		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-04

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 62.5

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5200		E	P
7440-36-0	Antimony	98.8		N	P
7440-38-2	Arsenic	55.2		*	P
7440-39-3	Barium	115		E	P
7440-41-7	Beryllium	0.53	J		P
7440-43-9	Cadmium	16.9		N	P
7440-70-2	Calcium	859		E	P
7440-47-3	Chromium	21.9			P
7440-48-4	Cobalt	7.1		*	P
7440-50-8	Copper	2240		E	P
7439-89-6	Iron	23400		*E	P
7439-92-1	Lead	37600		D	P
7439-95-4	Magnesium	468	J	E	P
7439-96-5	Manganese	294		*E	P
7439-97-6	Mercury	2.3		*	CV
7440-02-0	Nickel	491			P
7440-09-7	Potassium	190	J		P
7782-49-2	Selenium	8.4			P
7440-22-4	Silver	6.6		N	P
7440-23-5	Sodium	202	J	E	P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	22.9			P
7440-66-6	Zinc	277000		ED	P
57-12-5	Cyanide	3.8	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-05

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 76.5

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7790		E	P
7440-36-0	Antimony	195		N	P
7440-38-2	Arsenic	26.3		*	P
7440-39-3	Barium	108		E	P
7440-41-7	Beryllium	0.99			P
7440-43-9	Cadmium	23.8		N	P
7440-70-2	Calcium	2480		E	P
7440-47-3	Chromium	40.8			P
7440-48-4	Cobalt	19.6		*	P
7440-50-8	Copper	1720		E	P
7439-89-6	Iron	31300		*E	P
7439-92-1	Lead	1950			P
7439-95-4	Magnesium	627		E	P
7439-96-5	Manganese	372		*E	P
7439-97-6	Mercury	0.18		*	CV
7440-02-0	Nickel	1770			P
7440-09-7	Potassium	539			P
7782-49-2	Selenium	5.4			P
7440-22-4	Silver	0.49	J	N	P
7440-23-5	Sodium	289	J	E	P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	26.6			P
7440-66-6	Zinc	31000		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-06

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 81.8

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6410		E	P
7440-36-0	Antimony	57.6		N	P
7440-38-2	Arsenic	61.4		*	P
7440-39-3	Barium	278		E	P
7440-41-7	Beryllium	0.99			P
7440-43-9	Cadmium	29.9		N	P
7440-70-2	Calcium	5920		E	P
7440-47-3	Chromium	157			P
7440-48-4	Cobalt	11.9		*	P
7440-50-8	Copper	536		E	P
7439-89-6	Iron	114000		*E	P
7439-92-1	Lead	2140			P
7439-95-4	Magnesium	2030		E	P
7439-96-5	Manganese	1940		*E	P
7439-97-6	Mercury	1.0		*	CV
7440-02-0	Nickel	193			P
7440-09-7	Potassium	204	J		P
7782-49-2	Selenium	16.2			P
7440-22-4	Silver	0.96	U	N	P
7440-23-5	Sodium	313	J	E	P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	25.9			P
7440-66-6	Zinc	204000		ED	P
57-12-5	Cyanide	0.96	J		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-07

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8700		E	P
7440-36-0	Antimony	41.8		N	P
7440-38-2	Arsenic	27.8		*	P
7440-39-3	Barium	327		E	P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	23.2		N	P
7440-70-2	Calcium	1930		E	P
7440-47-3	Chromium	17.2			P
7440-48-4	Cobalt	18.0		*	P
7440-50-8	Copper	1950		E	P
7439-89-6	Iron	25200		*E	P
7439-92-1	Lead	2460			P
7439-95-4	Magnesium	970		E	P
7439-96-5	Manganese	2160		*E	P
7439-97-6	Mercury	0.33		*	CV
7440-02-0	Nickel	122			P
7440-09-7	Potassium	526	J		P
7782-49-2	Selenium	3.5	J		P
7440-22-4	Silver	1.4	U	N	P
7440-23-5	Sodium	279	J	E	P
7440-28-0	Thallium	3.5	U		P
7440-62-2	Vanadium	46.2			P
7440-66-6	Zinc	5430		E	P
57-12-5	Cyanide	3.5	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-10

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 77.4

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7060		E	P
7440-36-0	Antimony	44.0		N	P
7440-38-2	Arsenic	15.5		*	P
7440-39-3	Barium	194		E	P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	9.5		N	P
7440-70-2	Calcium	1290		E	P
7440-47-3	Chromium	14.4			P
7440-48-4	Cobalt	10.3		*	P
7440-50-8	Copper	1130		E	P
7439-89-6	Iron	17500		*E	P
7439-92-1	Lead	1230			P
7439-95-4	Magnesium	769		E	P
7439-96-5	Manganese	1160		*E	P
7439-97-6	Mercury	0.17		*	CV
7440-02-0	Nickel	92.6			P
7440-09-7	Potassium	366	J		P
7782-49-2	Selenium	2.9	J		P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	193	J	E	P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	36.4			P
7440-66-6	Zinc	4410		E	P
57-12-5	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-11

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 77.7

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7120		E	P
7440-36-0	Antimony	39.9		N	P
7440-38-2	Arsenic	19.3		*	P
7440-39-3	Barium	158		E	P
7440-41-7	Beryllium	0.72			P
7440-43-9	Cadmium	10.6		N	P
7440-70-2	Calcium	1340		E	P
7440-47-3	Chromium	17.4			P
7440-48-4	Cobalt	10.6		*	P
7440-50-8	Copper	1260		E	P
7439-89-6	Iron	21900		*E	P
7439-92-1	Lead	1380			P
7439-95-4	Magnesium	764		E	P
7439-96-5	Manganese	1070		*E	P
7439-97-6	Mercury	0.21		*	CV
7440-02-0	Nickel	88.9			P
7440-09-7	Potassium	338	J		P
7782-49-2	Selenium	3.1			P
7440-22-4	Silver	0.88	U	N	P
7440-23-5	Sodium	218	J	E	P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	42.4			P
7440-66-6	Zinc	4960		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-12

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13700		E	P
7440-36-0	Antimony	9.5		N	P
7440-38-2	Arsenic	6.4		*	P
7440-39-3	Barium	129		E	P
7440-41-7	Beryllium	0.69			P
7440-43-9	Cadmium	45.3		N	P
7440-70-2	Calcium	2460		E	P
7440-47-3	Chromium	16.3			P
7440-48-4	Cobalt	5.4	J	*	P
7440-50-8	Copper	352		E	P
7439-89-6	Iron	12600		*E	P
7439-92-1	Lead	851			P
7439-95-4	Magnesium	1480		E	P
7439-96-5	Manganese	257		*E	P
7439-97-6	Mercury	0.15		*	CV
7440-02-0	Nickel	113			P
7440-09-7	Potassium	1010			P
7782-49-2	Selenium	2.4	J		P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	154	J	E	P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	26.7			P
7440-66-6	Zinc	10500		ED	P
57-12-5	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-13

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 72.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7080		E	P
7440-36-0	Antimony	17.7		N	P
7440-38-2	Arsenic	7.4		*	P
7440-39-3	Barium	144		E	P
7440-41-7	Beryllium	0.44	J		P
7440-43-9	Cadmium	6.6		N	P
7440-70-2	Calcium	1830		E	P
7440-47-3	Chromium	9.4			P
7440-48-4	Cobalt	3.2	J	*	P
7440-50-8	Copper	1520		E	P
7439-89-6	Iron	10300		*E	P
7439-92-1	Lead	1560			P
7439-95-4	Magnesium	859		E	P
7439-96-5	Manganese	230		*E	P
7439-97-6	Mercury	0.28		*	CV
7440-02-0	Nickel	42.1			P
7440-09-7	Potassium	458	J		P
7782-49-2	Selenium	1.8	J		P
7440-22-4	Silver	0.18	J	N	P
7440-23-5	Sodium	210	J	E	P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	19.2			P
7440-66-6	Zinc	3980		E	P
57-12-5	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-14

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 72.2

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9700		E	P
7440-36-0	Antimony	50.3		N	P
7440-38-2	Arsenic	30.2		*	P
7440-39-3	Barium	425		E	P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	23.1		N	P
7440-70-2	Calcium	2590		E	P
7440-47-3	Chromium	22.7			P
7440-48-4	Cobalt	27.2		*	P
7440-50-8	Copper	1410		E	P
7439-89-6	Iron	38900		*E	P
7439-92-1	Lead	2630			P
7439-95-4	Magnesium	1020		E	P
7439-96-5	Manganese	3550		*E	P
7439-97-6	Mercury	0.32		*	CV
7440-02-0	Nickel	188			P
7440-09-7	Potassium	607	J		P
7782-49-2	Selenium	5.9			P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	321	J	E	P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	70.5			P
7440-66-6	Zinc	9420		ED	P
57-12-5	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-15

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 79.7

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7750		E	P
7440-36-0	Antimony	99.7		N	P
7440-38-2	Arsenic	17.8		*	P
7440-39-3	Barium	121		E	P
7440-41-7	Beryllium	0.63			P
7440-43-9	Cadmium	5.8		N	P
7440-70-2	Calcium	1250		E	P
7440-47-3	Chromium	13.0			P
7440-48-4	Cobalt	7.8		*	P
7440-50-8	Copper	1700		E	P
7439-89-6	Iron	18100		*E	P
7439-92-1	Lead	1690			P
7439-95-4	Magnesium	822		E	P
7439-96-5	Manganese	759		*E	P
7439-97-6	Mercury	0.20		*	CV
7440-02-0	Nickel	51.3			P
7440-09-7	Potassium	399	J		P
7782-49-2	Selenium	2.7	J		P
7440-22-4	Silver	0.46	J	N	P
7440-23-5	Sodium	189	J	E	P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	36.9			P
7440-66-6	Zinc	3620		E	P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-16

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 66.6

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8610		E	P
7440-36-0	Antimony	37.6		N	P
7440-38-2	Arsenic	9.0		*	P
7440-39-3	Barium	126		E	P
7440-41-7	Beryllium	0.58	J		P
7440-43-9	Cadmium	4.6		N	P
7440-70-2	Calcium	1570		E	P
7440-47-3	Chromium	13.8			P
7440-48-4	Cobalt	6.7		*	P
7440-50-8	Copper	1580		E	P
7439-89-6	Iron	11800		*E	P
7439-92-1	Lead	1570			P
7439-95-4	Magnesium	821		E	P
7439-96-5	Manganese	378		*E	P
7439-97-6	Mercury	0.28		*	CV
7440-02-0	Nickel	104			P
7440-09-7	Potassium	530	J		P
7782-49-2	Selenium	2.3	J		P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	169	J	E	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	27.6			P
7440-66-6	Zinc	3850		E	P
57-12-5	Cyanide	3.8	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-17

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 74.5

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9180		E	P
7440-36-0	Antimony	74.4		N	P
7440-38-2	Arsenic	17.5		*	P
7440-39-3	Barium	162		E	P
7440-41-7	Beryllium	0.69			P
7440-43-9	Cadmium	10		N	P
7440-70-2	Calcium	1860		E	P
7440-47-3	Chromium	40.2			P
7440-48-4	Cobalt	11.6		*	P
7440-50-8	Copper	3280		E	P
7439-89-6	Iron	22300		*E	P
7439-92-1	Lead	2010			P
7439-95-4	Magnesium	837		E	P
7439-96-5	Manganese	528		*E	P
7439-97-6	Mercury	0.29		*	CV
7440-02-0	Nickel	1200			P
7440-09-7	Potassium	371	J		P
7782-49-2	Selenium	3.3	J		P
7440-22-4	Silver	0.90	J	N	P
7440-23-5	Sodium	331	J	E	P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	34.3			P
7440-66-6	Zinc	22700		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-18

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 75.7

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10000		E	P
7440-36-0	Antimony	24.1		N	P
7440-38-2	Arsenic	15.5		*	P
7440-39-3	Barium	125		E	P
7440-41-7	Beryllium	0.56	J		P
7440-43-9	Cadmium	8.2		N	P
7440-70-2	Calcium	1960		E	P
7440-47-3	Chromium	14.7			P
7440-48-4	Cobalt	4.6	J	*	P
7440-50-8	Copper	577		E	P
7439-89-6	Iron	13600		*E	P
7439-92-1	Lead	1220			P
7439-95-4	Magnesium	1360		E	P
7439-96-5	Manganese	204		*E	P
7439-97-6	Mercury	0.13	U	*	CV
7440-02-0	Nickel	194			P
7440-09-7	Potassium	512	J		P
7782-49-2	Selenium	2.1	J		P
7440-22-4	Silver	0.31	J	N	P
7440-23-5	Sodium	185	J	E	P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	23.1			P
7440-66-6	Zinc	11800		ED	P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-19

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.3

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9310		E	P
7440-36-0	Antimony	13.6		N	P
7440-38-2	Arsenic	39.0		*	P
7440-39-3	Barium	782		E	P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	15.3		N	P
7440-70-2	Calcium	3050		E	P
7440-47-3	Chromium	18.7			P
7440-48-4	Cobalt	24.7		*	P
7440-50-8	Copper	230		E	P
7439-89-6	Iron	48100		*E	P
7439-92-1	Lead	1070			P
7439-95-4	Magnesium	952		E	P
7439-96-5	Manganese	7800		*E	P
7439-97-6	Mercury	0.046	J	*	CV
7440-02-0	Nickel	95.6			P
7440-09-7	Potassium	420	J		P
7782-49-2	Selenium	6.1			P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	223	J	E	P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	48.0			P
7440-66-6	Zinc	9460		ED	P
57-12-5	Cyanide	3.5	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-20

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 72.0

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9350		E	P
7440-36-0	Antimony	2.1	J	N	P
7440-38-2	Arsenic	6.9		*	P
7440-39-3	Barium	131		E	P
7440-41-7	Beryllium	0.64			P
7440-43-9	Cadmium	0.63	U	N	P
7440-70-2	Calcium	2350		E	P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	7.5		*	P
7440-50-8	Copper	31.0		E	P
7439-89-6	Iron	16400		*E	P
7439-92-1	Lead	63.4			P
7439-95-4	Magnesium	1050		E	P
7439-96-5	Manganese	689		*E	P
7439-97-6	Mercury	0.031	J	*	CV
7440-02-0	Nickel	17.2			P
7440-09-7	Potassium	698			P
7782-49-2	Selenium	2.4	J		P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	153	J	E	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	28.8			P
7440-66-6	Zinc	483		E	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

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IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-21

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 65.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500		E	P
7440-36-0	Antimony	1.9	J	N	P
7440-38-2	Arsenic	5.1		*	P
7440-39-3	Barium	120		E	P
7440-41-7	Beryllium	0.71			P
7440-43-9	Cadmium	0.64	U	N	P
7440-70-2	Calcium	2650		E	P
7440-47-3	Chromium	12.9			P
7440-48-4	Cobalt	3.4	J	*	P
7440-50-8	Copper	32.4		E	P
7439-89-6	Iron	15800		*E	P
7439-92-1	Lead	90.0			P
7439-95-4	Magnesium	1140		E	P
7439-96-5	Manganese	202		*E	P
7439-97-6	Mercury	0.15	U	*	CV
7440-02-0	Nickel	12.1			P
7440-09-7	Potassium	888			P
7782-49-2	Selenium	2.7	J		P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	136	J	E	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	26.1			P
7440-66-6	Zinc	332		E	P
57-12-5	Cyanide	3.6	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	14.686	J	18.041	J	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Cadmium	5.000	U	0.443	J	0.581	J	0.500	J	0.500	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	22.433	J	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	100.000	U	100.000	U	100.000	U	22.586	J	10.000	U	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Manganese	15.000	U	15.000	U	15.000	U	15.000	U	1.500	U	P
Mercury	0.200	U	-0.044	J	0.200	U	0.200	U	0.048	J	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	4.000	U	P
Potassium	-94.630	J	-104.462	J	5000.000	U	-97.521	J	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Sodium	78.146	J	5000.000	U	5000.000	U	5000.000	U	17.709	J	P
Thallium	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide	-4.693	J	-4.266	J	-4.820	J	-4.140	J	-0.258	J	AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			25.214	J	16.985	J	21.018	J			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			5.415	J	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			1.019	J	0.459	J	0.591	J			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			18.549	J	100.000	U	100.000	U			P
Lead			10.000	U	10.000	U	10.000	U			P
Magnesium			5000.000	U	5000.000	U	5000.000	U			P
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury			-0.044	J	-0.040	J	-0.043	J	0.100	U	CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			-93.318	J	5000.000	U	-112.006	J			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			111.776	J	-72.347	J	34.938	J			P
Thallium			25.000	U	25.000	U	25.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide			-4.787	J	-5.272	J	-4.983	J			AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			26.773	J	37.273	J	33.810	J			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			4.356	J	3.507	J	10.000	U			P
Barium			6.254	J	8.287	J	9.591	J			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			1.087	J	1.532	J	1.702	J			P
Calcium			5000.000	U	35.144	J	33.220	J			P
Chromium			10.000	U	1.030	J	1.093	J			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			100.000	U	100.000	U	100.000	U			P
Lead			10.000	U	3.871	J	4.007	J			P
Magnesium			5000.000	U	42.511	J	48.303	J			P
Manganese			15.000	U	2.257	J	2.365	J			P
Mercury			-0.046	J							CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			-88.498	J	5000.000	U	5000.000	U			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			-98.093	J	5000.000	U	-56.436	J			P
Thallium			25.000	U	25.000	U	4.053	J			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	5.280	J			P
Cyanide			-4.645	J	-7.016	J					AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			39.815	J	38.190	J					P
Antimony			60.000	U	60.000	U					P
Arsenic			4.843	J	4.610	J					P
Barium			11.775	J	12.730	J					P
Beryllium			5.000	U	5.000	U					P
Cadmium			2.375	J	2.346	J					P
Calcium			46.336	J	55.313	J					P
Chromium			1.206	J	1.848	J					P
Cobalt			50.000	U	50.000	U					P
Copper			5.217	J	25.000	U					P
Iron			100.000	U	55.317	J					P
Lead			5.013	J	5.374	J					P
Magnesium			54.820	J	132.709	J					P
Manganese			2.882	J	4.007	J					P
Mercury	0.200	U	0.200	U	0.072	J	0.102	J			CV
Nickel			40.000	U	3.659	J					P
Potassium			-82.816	J	5000.000	U					P
Selenium			35.000	U	35.000	U					P
Silver			10.000	U	10.000	U					P
Sodium			-81.701	J	5000.000	U					P
Thallium			5.527	J	5.172	J					P
Vanadium			50.000	U	50.000	U					P
Zinc			60.000	U	60.000	U					P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.200	U	0.200	U	0.078	J			CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000	247000	101	246000	102	252000	103	250000	104
Antimony	0	589	1.5		592	101	2.5		592	101
Arsenic	0	101	3.4		100	99	1.2		97.0	96
Barium	2.0	495	3.0	150	509	103	3.9	195	522	105
Beryllium	0	475	1.2		504	106	0.90		512	108
Cadmium	0	940	-5.1		961	102	-5.3		949	101
Calcium	235000	231000	246000	105	243000	105	250000	106	247000	107
Chromium	43.0	511	44.8	104	534	105	46.7	109	534	105
Cobalt	4.0	461	5.8	145	481	104	5.4	135	479	104
Copper	23.0	548	23.0	100	512	93	21.9	95	523	95
Iron	95600	94800	95700	100	94600	100	96400	101	95300	101
Lead	10.0	61.0	11.3	113	59.8	98	11.2	112	59.4	97
Magnesium	248000	251000	256000	103	253000	101	258000	104	254000	101
Manganese	19.0	502	21.2	112	503	100	20.5	108	509	101
Nickel	21.0	984	22.2	106	985	100	21.8	104	974	99
Potassium	0	0	54.7		-4.2		-24.7		-22.2	
Selenium	0	53.0	10.5		60.5	114	10.9		60.8	115
Silver	0	206	-5.3		207	100	-5.9		207	100
Sodium	0	0	1010		1020		1050		991	
Thallium	0	103	-0.38		95.5	93	-0.0064		97.9	95
Vanadium	0	494	0.37		476	96	0.072		485	98
Zinc	28.0	1030	36.3	130	1030	100	35.5	127	1020	99

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					247000	101	254000	105
Antimony	0	589					3.2		582	99
Arsenic	0	101					2.1		97.9	97
Barium	2.0	495					4.8	240	538	109
Beryllium	0	475					0.76		515	108
Cadmium	0	940					-5.2		897	95
Calcium	235000	231000					245000	104	248000	107
Chromium	43.0	511					44.3	103	528	103
Cobalt	4.0	461					5.6	140	463	100
Copper	23.0	548					23.4	102	522	95
Iron	95600	94800					93200	97	94100	99
Lead	10.0	61.0					11.4	114	58.3	96
Magnesium	248000	251000					248000	100	250000	100
Manganese	19.0	502					20.4	107	509	101
Nickel	21.0	984					21.4	102	927	94
Potassium	0	0					-35.0		7.9	
Selenium	0	53.0					10		56.9	107
Silver	0	206					-6.3		206	100
Sodium	0	0					910		976	
Thallium	0	103					-1.8		94.2	91
Vanadium	0	494					0.20		492	100
Zinc	28.0	1030					36.6	131	984	96

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					251000	103	250000	104
Antimony	0	589					1.9		592	101
Arsenic	0	101					3.9		102	101
Barium	2.0	495					3.3	165	522	105
Beryllium	0	475					1.1		510	107
Cadmium	0	940					-5.3		927	99
Calcium	235000	231000					243000	103	242000	105
Chromium	43.0	511					45.6	106	544	106
Cobalt	4.0	461					5.7	143	475	103
Copper	23.0	548					20.6	90	516	94
Iron	95600	94800					92300	97	92400	97
Lead	10.0	61.0					11.1	111	57.1	94
Magnesium	248000	251000					247000	100	247000	98
Manganese	19.0	502					20.2	106	500	100
Nickel	21.0	984					21.5	102	951	97
Potassium	0	0					-74.3		-62.1	
Selenium	0	53.0					10		55.6	105
Silver	0	206					-6.6		209	101
Sodium	0	0					1010		959	
Thallium	0	103					-0.26		94.0	91
Vanadium	0	494					0.11		494	100
Zinc	28.0	1030					35.8	128	979	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					245000	100	246000	102
Antimony	0	589					2.1		581	99
Arsenic	0	101					1.2		98.0	97
Barium	2.0	495					3.1	155	514	104
Beryllium	0	475					1.1		502	106
Cadmium	0	940					-5.0		885	94
Calcium	235000	231000					236000	100	238000	103
Chromium	43.0	511					44.4	103	528	103
Cobalt	4.0	461					5.2	130	459	100
Copper	23.0	548					23.2	101	506	92
Iron	95600	94800					90400	95	90800	96
Lead	10.0	61.0					11.8	118	57.0	93
Magnesium	248000	251000					241000	97	242000	96
Manganese	19.0	502					19.9	105	493	98
Nickel	21.0	984					20.5	98	914	93
Potassium	0	0					-1.6		-24.9	
Selenium	0	53.0					7.8		56.6	107
Silver	0	206					-6.4		203	99
Sodium	0	0					1100		1040	
Thallium	0	103					0.38		91.7	89
Vanadium	0	494					0.47		491	99
Zinc	28.0	1030					33.2	119	963	93

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					241000	99	255000	106
Antimony	0	589					2.2		569	97
Arsenic	0	101					3.1		97.0	96
Barium	2.0	495					3.2	160	539	109
Beryllium	0	475					1.2		520	109
Cadmium	0	940					-5.0		882	94
Calcium	235000	231000					234000	100	250000	108
Chromium	43.0	511					43.4	101	515	101
Cobalt	4.0	461					5.2	130	455	99
Copper	23.0	548					22.6	98	526	96
Iron	95600	94800					89300	93	94700	100
Lead	10.0	61.0					10.8	108	55.5	91
Magnesium	248000	251000					239000	96	253000	101
Manganese	19.0	502					19.9	105	514	102
Nickel	21.0	984					21.0	100	905	92
Potassium	0	0					-56.1		-94.4	
Selenium	0	53.0					7.8		56.2	106
Silver	0	206					-6.2		200	97
Sodium	0	0					965		1030	
Thallium	0	103					0.13		91.2	89
Vanadium	0	494					0.50		501	101
Zinc	28.0	1030					33.1	118	1010	98

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					246000	101	248000	103
Antimony	0	589					0.39		589	100
Arsenic	0	101					2.4		99.8	99
Barium	2.0	495					3.3	165	523	106
Beryllium	0	475					1.3		505	106
Cadmium	0	940					-5.2		888	94
Calcium	235000	231000					237000	101	241000	104
Chromium	43.0	511					43.7	102	517	101
Cobalt	4.0	461					5.4	135	464	101
Copper	23.0	548					21.5	93	515	94
Iron	95600	94800					89700	94	91100	96
Lead	10.0	61.0					10.5	105	56.6	93
Magnesium	248000	251000					240000	97	243000	97
Manganese	19.0	502					20.3	107	496	99
Nickel	21.0	984					19.9	95	918	93
Potassium	0	0					-34.5		-17.1	
Selenium	0	53.0					9.8		54.4	103
Silver	0	206					-6.8		199	97
Sodium	0	0					935		1000	
Thallium	0	103					0.97		95.2	92
Vanadium	0	494					0.87		487	99
Zinc	28.0	1030					33.0	118	969	94

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00S0S

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 71.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	57.0439		41.7845		27.82	55	N	P
Arsenic	75-125	36.2771		27.8180		11.13	76		P
Barium	75-125	795.0960		326.6960		556.33	84		P
Beryllium	75-125	14.5344		0.8045		13.91	99		P
Cadmium	75-125	31.3036		23.2481		13.91	58	N	P
Calcium									NR
Chromium	75-125	74.7577		17.2054		55.63	103		P
Cobalt	75-125	139.2780		18.0021		139.08	87		P
Copper		3053.4478		1954.9673		69.54	1580		P
Iron									NR
Lead		3077.2024		2463.8067		5.56	11032		P
Magnesium									NR
Manganese		842.5727		2159.5139		139.08	-947		P
Mercury	75-125	1.0090		0.3338		0.70	96		CV
Nickel	75-125	234.9995		121.8210		139.08	81		P
Potassium									NR
Selenium	75-125	16.9420		3.5445	J	13.91	96		P
Silver	75-125	19.2076		1.3908	U	13.91	138	N	P
Sodium									NR
Thallium	75-125	13.2058		3.4771	U	13.91	95		P
Vanadium	75-125	185.6707		46.1744		139.08	100		P
Zinc		6407.2274		5429.3435		139.08	703		P
Cyanide	75-125	6.8668		3.4771	U	6.95	99		AS

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00S0A

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		1388.97		300.43		600.0	181		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium		727.49		167.15		330.0	170		P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME00S0D

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 71.9 % Solids for Duplicate: 73.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8703.9374		8378.7719		4		P
Antimony		41.7845		42.1700		1		P
Arsenic		27.8180		22.3675		22	*	P
Barium		326.6960		289.8965		12		P
Beryllium	0.7	0.8045		0.6499	J	21		P
Cadmium		23.2481		19.5650		17		P
Calcium	695.4	1930.3317		1928.8310		0		P
Chromium		17.2054		17.7081		3		P
Cobalt	7.0	18.0021		10.4659		53	*	P
Copper		1954.9673		1994.0257		2		P
Iron		25209.5341		19277.9972		27	*	P
Lead		2463.8067		2328.6481		6		P
Magnesium	695.4	970.0912		944.2367		3		P
Manganese		2159.5139		1268.3777		52	*	P
Mercury	0.1	0.3338		0.1648		68	*	CV
Nickel		121.8210		118.3413		3		P
Potassium		525.8444	J	551.6823	J	5		P
Selenium		3.5445	J	3.2025	J	10		P
Silver		1.3908	U	1.3908	U			P
Sodium		278.7213	J	226.0248	J	21		P
Thallium		3.4771	U	3.4771	U			P
Vanadium		46.1744		39.3288		16		P
Zinc		5429.3435		5829.2441		7		P
Cyanide		3.4771	U	3.4771	U			AS

USEPA - CLP

8-IN
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME00S0L

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	62581.31		71172.10		14	E	P
Antimony	300.43		316.09		5		P
Arsenic	200.01		213.14		7		P
Barium	2348.94		2673.88		14	E	P
Beryllium	5.78		6.22	J	8		P
Cadmium	167.15		174.79		5		P
Calcium	13879.09		15954.95	J	15	E	P
Chromium	123.71		128.76		4		P
Cobalt	129.43		135.00	J	4		P
Copper	14056.22		16196.75		15	E	P
Iron	181256.55		210960.90		16	E	P
Lead	17714.77		19262.40		9		P
Magnesium	6974.96		8052.91	J	15	E	P
Manganese	15526.91		18068.63		16	E	P
Nickel	875.89		927.09		6		P
Potassium	3780.82	J	4415.99	J	17		P
Selenium	25.49	J	31.43	J	23		P
Silver	10.00	U	50.00	U			P
Sodium	2004.01	J	1294.55	J	35	E	P
Thallium	25.00	U	125.00	U			P
Vanadium	331.99		382.08		15		P
Zinc	39036.98		48275.66		24	E	P

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: AS Instrument ID: CN Date: 01/08/2009

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury		0.1	
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide	578.00	2.5	0.048

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: AS Instrument ID: CN Date: 01/07/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	1.8

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: CV Instrument ID: CV2 Date: 01/08/2009

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury	253.70	0.1	0.020
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: HS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	20	0.70
Antimony	206.83	6	0.80
Arsenic	189.04	1	0.21
Barium	493.41	20	0.47
Beryllium	234.86	0.5	0.060
Cadmium	214.44	0.5	0.050
Calcium	373.69	500	18.2
Chromium	267.72	1	0.11
Cobalt	228.62	5	0.56
Copper	324.75	2.5	0.54
Iron	259.84	10	3.9
Lead	220.35	1	0.18
Magnesium	279.08	500	11.3
Manganese	257.61	1.5	0.31
Mercury		0.1	
Nickel	231.60	4	0.38
Potassium	769.90	500	9.7
Selenium	196.09	3.5	0.49
Silver	328.07	1	0.090
Sodium	818.33	500	2.1
Thallium	190.86	2.5	0.32
Vanadium	292.40	5	0.78
Zinc	213.86	6	0.70
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	200	12.5
Antimony	206.83	60	6.6
Arsenic	189.04	10	3.1
Barium	493.41	200	4.5
Beryllium	234.86	5	0.60
Cadmium	214.44	5	0.40
Calcium	373.69	5000	32.6
Chromium	267.72	10	1.0
Cobalt	228.62	50	5.0
Copper	324.75	25	5.1
Iron	259.84	100	18.1
Lead	220.35	10	2.0
Magnesium	279.08	5000	41.3
Manganese	257.61	15	1.8
Mercury		0.2	
Nickel	231.60	40	3.5
Potassium	769.90	5000	82.2
Selenium	196.09	35	5.4
Silver	328.07	10	1.0
Sodium	818.33	5000	33.8
Thallium	190.86	25	3.5
Vanadium	292.40	50	7.5
Zinc	213.86	60	5.0
Cyanide		10	

Comments:

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	10/28/2009		100
CCV	10/28/2009		100
CRI	10/28/2009		100
ICB	10/28/2009		100
ICV	10/28/2009		100
LCSS	10/28/2009	0.20	100
ME00R4	10/28/2009	0.20	100
ME00R5	10/28/2009	0.20 ~~0.22~~	12-31-09 100
ME00R6	10/28/2009	0.22 ~~0.20~~	100
ME00R7	10/28/2009	0.20	100
ME00R8	10/28/2009	0.20	100
ME00R9	10/28/2009	0.20	100
ME00S0	10/28/2009	0.20	100
ME00S0D	10/28/2009	0.20	100
ME00S0S	10/28/2009	0.20	100
ME00S1	10/28/2009	0.21	100
ME00S2	10/28/2009	0.21	100
ME00S3	10/28/2009	0.20	100
ME00S4	10/28/2009	0.22	100
ME00S5	10/28/2009	0.20	100
ME00S7	10/28/2009	0.22	100
ME00S8	10/28/2009	0.20	100
ME00S9	10/28/2009	0.20	100
ME00T0	10/28/2009	0.20	100
ME00T1	10/28/2009	0.20	100
ME00T6	10/28/2009	0.20	100
PBS	10/28/2009	0.20	100
S0	10/28/2009		100
S0.2	10/28/2009		100
S2.5	10/28/2009		100
S5.0	10/28/2009		100
S7.5	10/28/2009		100
S10.0	10/28/2009		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: CSI

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	11/02/2009		100
CCV	11/02/2009		100
CRI	11/02/2009		100
ICB	11/02/2009		100
ICV	11/02/2009		100
LCSS	11/02/2009	0.20	100
ME00S6	11/02/2009	0.20	100
PBS	11/02/2009	0.20	100
S0	11/02/2009		100
S0.2	11/02/2009		100
S2.5	11/02/2009		100
S5.0	11/02/2009		100
S7.5	11/02/2009		100
S10.0	11/02/2009		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	10/27/2009		50
LCSS	10/27/2009	1.02 ~~1.00~~	50
ME00R4	10/27/2009	1.03	50
ME00R5	10/27/2009	1.06	50
ME00R6	10/27/2009	1.03	50
ME00R7	10/27/2009	1.05	50
ME00R8	10/27/2009	1.01	50
ME00R9	10/27/2009	1.04	50
ME00S0	10/27/2009	1.02 ~~1.00~~	50
ME00S0D	10/27/2009	1.06 ~~1.00~~	50
ME00S0S	10/27/2009	1.09 ~~1.00~~	50
ME00S1	10/27/2009	1.06	50
ME00S2	10/27/2009	1.00	50
ME00S3	10/27/2009	1.04	50
ME00S4	10/27/2009	1.02	50
ME00S5	10/27/2009	1.01	50
ME00S6	10/27/2009	1.02	50
ME00S7	10/27/2009	1.00	50
ME00S8	10/27/2009	1.04	50
ME00S9	10/27/2009	1.07	50
ME00T0	10/27/2009	1.01	50
ME00T1	10/27/2009	1.09	50
ME00T6	10/27/2009	1.06	50
MIDRANGE	10/27/2009		50
PBS	10/27/2009	1.03 ~~1.00~~	50

CORRECTIONS BY S. CONNET
(EPAT DATA REVIEWER)
12-31-09

FORM XII-IN ILM05.4

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: HS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	10/27/2009	1.00	100
ME00R4	10/27/2009	1.48	100
ME00R5	10/27/2009	1.42	100
ME00R6	10/27/2009	1.24	100
ME00R7	10/27/2009	1.20	100
ME00R8	10/27/2009	1.27	100
ME00R9	10/27/2009	1.28	100
ME00S0	10/27/2009	1.00	100
ME00S0D	10/27/2009	1.00	100
ME00S0S	10/27/2009	1.00	100
ME00S1	10/27/2009	1.16	100
ME00S2	10/27/2009	1.46	100
ME00S3	10/27/2009	1.24	100
ME00S4	10/27/2009	1.15	100
ME00S5	10/27/2009	1.05	100
ME00S6	10/27/2009	1.20	100
ME00S7	10/27/2009	1.16	100
ME00S8	10/27/2009	1.31	100
ME00S9	10/27/2009	1.10	100
ME00T0	10/27/2009	1.32	100
ME00T1	10/27/2009	1.10	100
ME00T6	10/27/2009	1.20	100
PBS	10/27/2009	1.00	100

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1258															X											
S0.2	1.0	1300															X											
S2.5	1.0	1302															X											
S5.0	1.0	1304															X											
S7.5	1.0	1306															X											
S10.0	1.0	1308															X											
ICV	1.0	1312															X											
ICB	1.0	1314															X											
CRI	1.0	1316															X											
CCV	1.0	1318															X											
CCB	1.0	1320															X											
ZZZZZZ	1.0	1322																										
ZZZZZZ	1.0	1324																										
ZZZZZZ	1.0	1326																										
ZZZZZZ	1.0	1329																										
ZZZZZZ	1.0	1331																										
ZZZZZZ	1.0	1333																										
ZZZZZZ	1.0	1335																										
ZZZZZZ	1.0	1337																										
ZZZZZZ	1.0	1339																										
ZZZZZZ	1.0	1341																										
CCV	1.0	1343															X											
CCB	1.0	1345															X											
ZZZZZZ	1.0	1348																										
ZZZZZZ	1.0	1350																										
ZZZZZZ	1.0	1351																										
ZZZZZZ	1.0	1354																										
ZZZZZZ	1.0	1355																										
ZZZZZZ	1.0	1357																										
ZZZZZZ	1.0	1400																										
CRI	1.0	1402															X											
CCV	1.0	1427															X											
CCB	1.0	1429															X											

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1431																										
ZZZZZZ	1.0	1433																										
ZZZZZZ	1.0	1435																										
ZZZZZZ	1.0	1437																										
ZZZZZZ	1.0	1440																										
ZZZZZZ	1.0	1442																										
ZZZZZZ	1.0	1444																										
PBS	1.0	1446															X											
LCSS	1.0	1448															X											
ZZZZZZ	1.0	1450																										
CCV	1.0	1453															X											
CCB	1.0	1455															X											
ZZZZZZ	1.0	1457																										
ZZZZZZ	1.0	1500																										
ZZZZZZ	1.0	1502																										
ZZZZZZ	1.0	1504																										
ZZZZZZ	1.0	1506																										
ZZZZZZ	1.0	1508																										
ZZZZZZ	1.0	1510																										
CRI	1.0	1512															X											
CCV	1.0	1514															X											
CCB	1.0	1516															X											
ZZZZZZ	1.0	1518																										
ME00S6	1.0	1520															X											
ZZZZZZ	1.0	1522																										
ZZZZZZ	1.0	1524																										
CRI	1.0	1526															X											
CCV	1.0	1528															X											
CCB	1.0	1530															X											

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1432															X											
S0.2	1.0	1434															X											
S2.5	1.0	1436															X											
S5.0	1.0	1439															X											
S7.5	1.0	1441															X											
S10.0	1.0	1443															X											
ICV	1.0	1447															X											
ICB	1.0	1450															X											
CRI	1.0	1452															X											
CCV	1.0	1454															X											
CCB	1.0	1456															X											
ZZZZZZ	1.0	1458																										
ZZZZZZ	1.0	1500																										
ME00R4	1.0	1503															X											
ME00R5	1.0	1505															X											
ME00R6	1.0	1507															X											
ME00R7	1.0	1510															X											
ME00R8	1.0	1512															X											
ME00R9	1.0	1514															X											
ME00S0	1.0	1516															X											
ME00S0D	1.0	1518															X											
CCV	1.0	1520															X											
CCB	1.0	1522															X											
ME00S0S	1.0	1524															X											
ME00S1	1.0	1526															X											
ME00S2	1.0	1528															X											
ME00S3	1.0	1530															X											
ME00S4	1.0	1532															X											
ME00S5	1.0	1534															X											
ME00S7	1.0	1536															X											
CRI	1.0	1538															X											
CCV	1.0	1540															X											
CCB	1.0	1542															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ME00S8	1.0	1544															X												
ME00S9	1.0	1546															X												
ME00T0	1.0	1549															X												
ME00T1	1.0	1551															X												
ME00T6	1.0	1553															X												
PBS	1.0	1555															X												
LCSS	1.0	1557															X												
ZZZZZZ	1.0	1559																											
ZZZZZZ	1.0	1601																											
ZZZZZZ	1.0	1604																											
CCV	1.0	1606															X												
CCB	1.0	1609															X												
ZZZZZZ	1.0	1611																											
ZZZZZZ	1.0	1613																											
ZZZZZZ	1.0	1615																											
ZZZZZZ	1.0	1617																											
ZZZZZZ	1.0	1619																											
ZZZZZZ	1.0	1621																											
ZZZZZZ	1.0	1623																											
CRI	1.0	1626															X												
CCV	1.0	1628															X												
CCB	1.0	1629															X												
ZZZZZZ	1.0	1631																											
ZZZZZZ	1.0	1634																											
ZZZZZZ	1.0	1635																											
ZZZZZZ	1.0	1638																											
ZZZZZZ	1.0	1640																											
ZZZZZZ	1.0	1642																											
ZZZZZZ	1.0	1645																											
ZZZZZZ	1.0	1647																											
ZZZZZZ	1.0	1648																											
ZZZZZZ	1.0	1650																											
CCV	1.0	1653															X												

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCB	1.0	1655															X											
ZZZZZZ	1.0	1657																										
ZZZZZZ	1.0	1659																										
ZZZZZZ	1.0	1701																										
ZZZZZZ	1.0	1703																										
ZZZZZZ	1.0	1705																										
ZZZZZZ	1.0	1709																										
CRI	1.0	1711															X											
CCV	1.0	1714															X											
CCB	1.0	1716															X											

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USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.0	1521																								X			
S5.0	1.0	1521																								X			
S10.0	1.0	1521																								X			
S100.0	1.0	1521																								X			
S250.0	1.0	1521																								X			
S500.0	1.0	1521																								X			
ICV	1.0	1540																								X			
ICV	1.0	1540																								X			
ICV	1.0	1540																								X			
ICB	1.0	1540																								X			
CRI	1.0	1557																								X			
CCV	1.0	1557																								X			
CCB	1.0	1557																								X			
MIDRANGE	1.0	1557																								X			
MIDRANGE	1.0	1557																								X			
MIDRANGE	1.0	1557																								X			
ZZZZZZ	1.0	1557																											
PBS	1.0	1611																								X			
ZZZZZZ	1.0	1611																											
ZZZZZZ	1.0	1611																											
LCSS	1.0	1611																								X			
ZZZZZZ	1.0	1611																											
ZZZZZZ	1.0	1619																											
CCV	1.0	1622																								X			
CCB	1.0	1622																								X			
ZZZZZZ	1.0	1622																											
ZZZZZZ	1.0	1634																											
ZZZZZZ	1.0	1634																											
ZZZZZZ	1.0	1634																											
ZZZZZZ	1.0	1634																											
ZZZZZZ	1.0	1634																											
ZZZZZZ	1.0	1638																											
ZZZZZZ	1.0	1638																											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1638																										
CRI	1.0	1731																								X		
CCV	1.0	1731																								X		
CCB	1.0	1731																								X		
ZZZZZZ	1.0	1731																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1755																										
ZZZZZZ	1.0	1759																										
ZZZZZZ	1.0	1759																										
ZZZZZZ	1.0	1809																										
ZZZZZZ	1.0	1809																										
ZZZZZZ	1.0	1809																										
CCV	1.0	1809																								X		
CCB	1.0	1809																								X		
ZZZZZZ	1.0	1809																										
ME00R4	1.0	1809																								X		
ME00R5	1.0	1809																								X		
ME00R6	1.0	1809																								X		
ME00R7	1.0	1809																								X		
ME00R8	1.0	1815																								X		
ME00R9	1.0	1815																								X		
ME00S0	1.0	1815																								X		
ME00S0D	1.0	1815																								X		
CRI	1.0	1815																								X		
CCV	1.0	1815																								X		
CCB	1.0	1815																								X		
ME00S0S	1.0	1815																								X		
ME00S1	1.0	1823																								X		
ME00S2	1.0	1830																								X		
ME00S3	1.0	1830																								X		
ME00S4	1.0	1830																								X		

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USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00S5	1.0	1831																								X		
ME00S6	1.0	1831																								X		
ME00S7	1.0	1831																								X		
ME00S8	1.0	1831																								X		
ME00S9	1.0	1831																								X		
CCV	1.0	1831																								X		
CCB	1.0	1831																								X		
ME00T0	1.0	1831																								X		
ME00T1	1.0	1841																								X		
ME00T6	1.0	1841																								X		
ZZZZZZ	1.0	1847																										
ZZZZZZ	1.0	1847																										
ZZZZZZ	1.0	1847																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1852																										
CRI	1.0	1852																								X		
CCV	1.0	1852																								X		
CCB	1.0	1852																								X		
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1859																										
ZZZZZZ	1.0	1859																										
CRI	1.0	1903																								X		
CCV	1.0	1903																								X		
CCB	1.0	1903																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1022	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1025	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	1029	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1032	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1035		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1038	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1041	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1044	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1047	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1050																										
ZZZZZZ	0	1054																										
ZZZZZZ	0	1057																										
CRI	1.0	1100		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1103	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1106	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1109	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1112	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBS	1.0	1128	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSS	1.0	1131	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R4	1.0	1134	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R5	1.0	1138	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00R6	1.0	1141	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00R7	1.0	1143	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X				
ME00R8	1.0	1146	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00R9	1.0	1149	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S0	1.0	1152	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S0L	5.0	1155	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1205	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1208	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S0D	1.0	1211	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S0S	1.0	1214		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00S1	1.0	1217	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S2	1.0	1220	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00S3	1.0	1223	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S4	1.0	1226	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1229																										
CRI	1.0	1233		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1236	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1239	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1242	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1245	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S5	1.0	1248	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S6	1.0	1251	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S7	1.0	1254	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S8	1.0	1257	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S9	.1.0	1300	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00T0	1.0	1303	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00T1	1.0	1306	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00T6	1.0	1309	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R5	2.0	1312																							X			
ZZZZZZ	0	1315																										
CCV	1.0	1321	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1324	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R7	4.0	1327												X														
ZZZZZZ	0	1330																										
ME00R8	10	1334																							X			
ZZZZZZ	0	1337																										
ME00S2	2.0	1340																							X			
ME00S3	4.0	1343																							X			
ZZZZZZ	0	1346																										
CRI	1.0	1349		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1352	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1355	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1358	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1401	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R6	40	1404																							X			

FORM XIII-IN ILM05.4

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00R7	100	1408																							X			
ME00R9	100	1411																							X			
ME00S5	4.0	1414																							X			
ME00S8	10	1417																							X			
ME00S9	4.0	1420																							X			
ME00T0	4.0	1423																							X			
ZZZZZZ	0	1426																										
ZZZZZZ	0	1429																										
ZZZZZZ	0	1432																										
CCV	1.0	1440	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1442	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1446																										
ZZZZZZ	0	1449																										
ZZZZZZ	0	1452																										
ZZZZZZ	0	1455																										
ZZZZZZ	0	1458																										
ZZZZZZ	0	1501																										
ZZZZZZ	0	1504																										
CRI	1.0	1507		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1511	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1514	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1550	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1553	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1556																										
ZZZZZZ	0	1600																										
ZZZZZZ	0	1603																										
ZZZZZZ	0	1606																										
ZZZZZZ	0	1609																										
ZZZZZZ	0	1612																										
ZZZZZZ	0	1615																										
ZZZZZZ	0	1618																										
ZZZZZZ	0	1621																										
ZZZZZZ	0	1625																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV	1.0	1628	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1631	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1634																										
ZZZZZZ	0	1637																										
ZZZZZZ	0	1640																										
ZZZZZZ	0	1643																										
ZZZZZZ	0	1646																										
ZZZZZZ	0	1650																										
ZZZZZZ	0	1653																										
CRI	1.0	1656		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1659	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1702	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1705	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1708	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1711																										
ZZZZZZ	0	1714																										
ZZZZZZ	0	1717																										
ZZZZZZ	0	1720																										
ZZZZZZ	0	1724																										
ZZZZZZ	0	1727																										
ME00S0A	1.0	1730		X				X																				
CRI	1.0	1733		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1736	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1739	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1742	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1745	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM XIII-IN ILM05.4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: M8D0R4 CERCLIS No: ILD053980454

Case No: 39143 Site Name/Location: Sandoval Zinc (IL)

Contractor or EPA Lab: ChemTech Data User: IEPA

No. of Samples: 19 Date Sampled or Date Received: 13 Nov 09

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: 19 No. of samples received: ____

Received by: [illegible] Date: 13 Nov 09

Received by LSSS: [illegible] Date: 18 Nov 09

Review started: 12-31-09 Reviewer Signature: [illegible]

Total time spent on review: 13 + 2.5 07/21/10 Date review completed: 1-6-10

Copied by: A. C. Harvey Date: Feb 3, 2010

Mailed to user by: [illegible] Date: 8 FEB 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

Controlled Document

ESAT5.15.00408
aCH
2-3-10

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/6/10

SUBJECT: Review of Data
Received for review on 11/13/09

FROM: Stephen L. Ostrodka, Chief (SRT-5J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Sandoval Zinc (IL)

CASE NUMBER: 39143 **SDG NUMBER:** ME00R4

Number and Type of Samples: 19 soils

Sample Numbers: ME00R4-R9, S0-S9, T0-T1, T6

Laboratory: Chemtech **Hrs. for Review:** 13.0 + 2.5 @ 2/3/10

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nineteen (19) soil samples, numbered ME00R4-R9, S0-S9, T0-T1, T6, were collected on October 19-20, 2009. The lab received the samples on October 23, 2009 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

On the Traffic Report/Chain of Custody Record, it states that the soil samples were preserved with NaOH. No sample results are qualified for this.

No raw data for percent solids was provided. Percent solids data were presented on a computer generated spreadsheet. Percent solids calculations used by the laboratory were frequently rounded incorrectly. Thirteen out of the nineteen values reported by the laboratory were rounded up when they should not have been. The incorrectly reported percent solids results can result in low biased sample results. The reported results were corrected on samples ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S3, ME00S4, ME00S6, ME00S8, ME00S9, ME00T0, ME00T1 and ME00T6 by this reviewer.

Two prepped sample weights (ME00R5 and ME00R6) were entered incorrectly on Form 12 for mercury. Five prepped sample weights (PBS, LCSS, ME00S0, ME00S0D and ME00S0S) were entered incorrectly on Form 12 for cyanide. Values were corrected by this reviewer. All corrected values were used for sample result verification.

The conversion calculation formula provided in the laboratory case narrative does not include unit values for several of the variables or multipliers within the equation. Reported sample results are calculated correctly.

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standards.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Mercury

ME00S6

Sodium

ME00R4, ME00R5, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Mercury

ME00R4, ME00R5, ME00T0, ME00T1

Cyanide

ME00R9

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. No post spike was required.

Hits are qualified "J+"; non-detects are not qualified.

Silver

ME00S4

The following inorganic samples are associated with a matrix spike recovery which is high (>125%) indicating that sample results may be biased high. No post spike was required.

The samples are also associated with a negative ICSA sample whose absolute value is greater than the MDL (see ICP Analysis Section 6 below).

Hits are qualified "J".

Silver

ME00R6, ME00R7, ME00R8, ME00S6, ME00S8, ME00S9

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Cadmium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Manganese

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Aluminum

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Barium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Calcium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Copper

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Iron

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Magnesium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Manganese

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Sodium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Zinc

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained. The sample contains Al, Ca, Fe, or Mg at a level comparable to the ICSA.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Beryllium

ME00R4, ME00R7, ME00S0, ME00S1, ME00S2, ME00S3, ME00S5, ME00S6,

ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

Selenium

ME00R4, ME00R5, ME00R6, ME00R7, ME00R8, ME00S0, ME00S1, ME00S2, ME00S3, ME00S5, ME00S6, ME00S8, ME00S9, ME00T0, ME00T1, ME00T6

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA.

Hits less than 10 times the absolute value of the ICSA are qualified "J-", non-detects are qualified "UJ". Hits greater than 10 times the ICSA are not qualified.

Cadmium

ME00T1, ME00T6

Silver

ME00R4, ME00R8, ME00R9, ME00S0, ME00S1, ME00S2, ME00S3, ME00S5, ME00T0, ME00T1, ME00T6

The following results are affected by an interference check "A" sample (ICSA) for which false negative concentration values greater than the absolute value of the MDL were obtained. The sample contains Al, Ca, Fe or Mg at a level comparable to that of the ICSA. The results are also associated with a high matrix spike recovery (see Matrix Spike Section 4 above).

Hits less than 10 times the absolute value of the ICSA are qualified "J". Hits greater than 10 times the ICSA are not qualified.

Silver

ME00R6, ME00R7, ME00R8, ME00S6, ME00S8, ME00S9

The following inorganic samples are associated with negative sample results whose absolute values are greater than the CRQL, indicating interference. Dilutions performed for other elements were no longer greater than the CRQL. Undiluted results would have been considered rejected "R"; reported results were changed to diluted values by this reviewer. Detection limits for reported results are elevated.

Non-detects are qualified "U".

Silver

ME00R5, ME00R9, ME00T0

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony

ME00T1, ME00T6

Beryllium
ME00R7, ME00S4, ME00S7, ME00S9

Cobalt
ME00S3, ME00S4, ME00S9, ME00T6

Magnesium
ME00R7

Mercury
ME00R4, ME00R5, ME00T0, ME00T1

Potassium
ME00R7, ME00R9, ME00S0, ME00S1, ME00S2, ME00S4, ME00S5, ME00S6, ME00S7, ME00S8, ME00S9, ME00T0

Selenium
ME00R4, ME00S0, ME00S1, ME00S3, ME00S4, ME00S6, ME00S7, ME00S8, ME00S9, ME00T1, ME00T6

Silver
ME00R8, ME00S4, ME00S6, ME00S8, ME00S9

Cyanide
ME00R9

All data, except those qualified above, are acceptable.

Reviewed by: Stephen Connet
Date: January 6, 2010

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	ME00R4		ME00R5		ME00R6		ME00R7		ME00R8	
Sampling Location :	X201		X202		X301		X302		X303	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/19/2009		10/19/2009		10/19/2009		10/19/2009		10/19/2009	
Time Sampled :										
%Solids :	59.3		71.1		75.7		62.4		76.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	11900	J	10700	J	13400	J	5210	J	7810	J
ANTIMONY	11.7	J	20.6	J	212	J	98.9	J	196	J
ARSENIC	16.9		75.4		70.4		55.3		26.3	
BARIUM	195	J	215	J	733	J	115	J	108	J
BERYLLIUM	0.83	J+	1.1		1.0		0.53	J+	0.99	
CADMIUM	26.7	J	22.5	J	64.9	J	16.9	J	23.9	J
CALCIUM	2800	J	2030	J	13600	J	861	J	2480	J
CHROMIUM	16.6		23.4		128		21.9		40.8	
COBALT	9.6		13.0		15.5		7.2		19.6	
COPPER	270	J	297	J	3640	J	2250	J	1720	J
IRON	20000	J	34700	J	42700	J	23500	J	31400	J
LEAD	625		1580		12500		37600		1950	
MAGNESIUM	1290	J	1080	J	2440	J	469	J	628	J
MANGANESE	763	J	1510	J	914	J	295	J	372	J
MERCURY	0.035	J-	0.12	J-	3.6		2.3		0.19	
NICKEL	58.3		84.1		668		491		1780	
POTASSIUM	905		641		786		190	J	540	
SELENIUM	3.4	J+	5.5	J+	6.8	J+	8.4	J+	5.4	J+
SILVER	1.1	UJ	0.99	UJ	4.3	J	6.6	J	0.49	J
SODIUM	570	UJ	495	UJ	1130	J	668	UJ	515	UJ
THALLIUM	2.8	U	2.5	U	2.7	U	3.3	U	2.6	U
VANADIUM	45.0		72.8		41.8		22.9		26.6	
ZINC	4340	J	5750	J	205000	J	278000	J	31100	J
CYANIDE	4.1	U	3.3	U	3.2	U	3.8	U	3.2	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Sample Number :	ME00R9		ME00S0		ME00S1		ME00S2		ME00S3	
Sampling Location :	X304		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/19/2009		10/20/2009		10/20/2009		10/20/2009		10/20/2009	
Time Sampled :										
%Solids :	81.7		71.9		77.4		77.7		71.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6410	J	8700	J	7060	J	7120	J	13700	J
ANTIMONY	57.7	J	41.8	J	44.0	J	39.9	J	9.5	J
ARSENIC	61.5		27.8		15.5		19.3		6.4	
BARIUM	278	J	327	J	194	J	158	J	129	J
BERYLLIUM	0.99		0.80	J+	0.60	J+	0.72	J+	0.69	J+
CADMIUM	30.0	J	23.2	J	9.5	J	10.6	J	45.4	J
CALCIUM	5930	J	1930	J	1290	J	1340	J	2470	J
CHROMIUM	157		17.2		14.4		17.4		16.3	
COBALT	11.9		18.0		10.3		10.6		5.4	J
COPPER	537	J	1950	J	1130	J	1260	J	352	J
IRON	114000	J	25200	J	17500	J	21900	J	12700	J
LEAD	2150		2460		1230		1380		853	
MAGNESIUM	2040	J	970	J	769	J	764	J	1480	J
MANGANESE	1940	J	2160	J	1160	J	1070	J	257	J
MERCURY	1.0		0.33		0.17		0.21		0.15	
NICKEL	193		122		92.6		88.9		113	
POTASSIUM	205	J	526	J	366	J	338	J	1010	
SELENIUM	16.2		3.5	J+	2.9	J+	3.1	J+	2.4	J+
SILVER	38.2	UJ	1.4	UJ	1.1	UJ	0.88	UJ	1.1	UJ
SODIUM	478	UJ	695	UJ	557	UJ	441	UJ	564	UJ
THALLIUM	2.4	U	3.5	U	2.8	U	2.2	U	2.8	U
VANADIUM	26.0		46.2		36.4		42.4		26.7	
ZINC	204000	J	5430	J	4410	J	4960	J	10500	J
CYANIDE	0.96	J-	3.4	U	3.0	U	3.2	U	3.4	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Sample Number :	ME00S4		ME00S5		ME00S6		ME00S7		ME00S8	
Sampling Location :	X207		X208		X209		X210		X211	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	10/20/2009		10/20/2009		10/20/2009		10/20/2009		10/20/2009	
Time Sampled :										
%Solids :	72.2		72.2		79.6		66.6		74.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7090	J	9700	J	7760	J	8610	J	9190	J
ANTIMONY	17.7	J	50.3	J	99.9	J	37.6	J	74.5	J
ARSENIC	7.4		30.2		17.8		9.0		17.5	
BARIUM	145	J	425	J	121	J	126	J	162	J
BERYLLIUM	0.44	J	1.2	J+	0.63	J+	0.58	J	0.69	J+
CADMIUM	6.7	J	23.1	J	5.8	J	4.6	J	10.0	J
CALCIUM	1830	J	2590	J	1250	J	1570	J	1870	J
CHROMIUM	9.4		22.7		13.0		13.8		40.3	
COBALT	3.2	J	27.2		7.8		6.7		11.6	
COPPER	1520	J	1410	J	1710	J	1580	J	3290	J
IRON	10300	J	38900	J	18100	J	11800	J	22300	J
LEAD	1560		2630		1690		1570		2010	
MAGNESIUM	861	J	1020	J	823	J	821	J	838	J
MANGANESE	230	J	3550	J	760	J	378	J	529	J
MERCURY	0.28		0.32		0.20	U	0.28		0.29	
NICKEL	42.1		188		51.3		104		1200	
POTASSIUM	459	J	607	J	400	J	530	J	372	J
SELENIUM	1.8	J	5.9	J+	2.7	J+	2.3	J	3.3	J+
SILVER	0.18	J+	1.3	UJ	0.46	J	1.3	U	0.90	J
SODIUM	602	UJ	660	UJ	523	UJ	647	UJ	513	UJ
THALLIUM	3.0	U	3.3	U	2.6	U	3.2	U	2.6	U
VANADIUM	19.2		70.5		36.9		27.6		34.3	
ZINC	3990	J	9420	J	3630	J	3850	J	22800	J
CYANIDE	3.4	U	3.4	U	3.1	U	3.8	U	3.2	U

Analytical Results (Qualified Data)

Case #: 39143 SDG : ME00R4
Site : SANDOVAL ZINC CO
Lab. : CHEM
Reviewer : S. CONNET
Date : 1/6/2010

Sample Number :	ME00S9		ME00T0		ME00T1		ME00T6			
Sampling Location :	X212		X213		X214		X215			
Matrix :	Soil		Soil		Soil		Soil			
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg			
Date Sampled :	10/20/2009		10/20/2009		10/20/2009		10/20/2009			
Time Sampled :										
%Solids :	75.6		71.2		71.9		65.3			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	10000	J	9320	J	9360	J	10500	J		
ANTIMONY	24.1	J	13.6	J	2.1	J	1.9	J		
ARSENIC	15.6		39.0		6.9		5.1			
BARIUM	125	J	783	J	131	J	121	J		
BERYLLIUM	0.56	J+	1.1	J+	0.64	J+	0.71	J+		
CADMIUM	8.2	J	15.3	J	0.63	UJ	0.64	UJ		
CALCIUM	1960		3050		2360		2660			
CHROMIUM	14.8		18.7		12.6		12.9			
COBALT	4.6	J	24.7		7.5		3.4	J		
COPPER	578	J	230	J	31.0	J	32.5	J		
IRON	13600	J	48100	J	16500	J	15800	J		
LEAD	1230		1070		63.5		90.1			
MAGNESIUM	1370	J	953	J	1050	J	1150	J		
MANGANESE	204	J	7810	J	689	J	203	J		
MERCURY	0.13	U	0.046	J-	0.031	J-	0.15	U		
NICKEL	194		95.8		17.3		12.1			
POTASSIUM	513	J	421	J	699		889			
SELENIUM	2.1	J+	6.1	J+	2.4	J+	2.7	J+		
SILVER	0.31	J	4.3	UJ	1.3	UJ	1.3	UJ		
SODIUM	601	UJ	532	UJ	632	UJ	638	UJ		
THALLIUM	3.0	U	2.7	U	3.2	U	3.2	U		
VANADIUM	23.1		48.1		28.8		26.1			
ZINC	11800	J	9470	J	484	J	332	J		
CYANIDE	3.1	U	3.5	U	3.2	U	3.6	U		

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39143
DAS No:
SDG No: ME00R4

L9

Date Shipped:	10/22/2009
Carrier Name:	UPS
Airbill:	1Z62 5892210084364
Shipped to:	ChemTech Consulting Group 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	10/22/09 / 12:00		
2			
3			10/23/09
4		SINEMAC MEGTA	9:50

Sampler Signature: [illegible]

For Lab Use Only

Lab Contract No: EPW08065
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00R4	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105164 (NaOH) (1)	X201	S: 10/19/2009 16:00		
ME00R5	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105165 (NaOH) (1)	X202	S: 10/19/2009 15:30		
ME00R6	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105166 (NaOH) (1)	X301	S: 10/19/2009 13:30		
ME00R7	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105167 (NaOH) (1)	X302	S: 10/19/2009 14:00		
ME00R8	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105168 (NaOH) (1)	X303	S: 10/19/2009 14:30		
ME00R9	Waste/ Ken Corkill	H/G	ICP, Hg,CN (21)	5C-105169 (NaOH) (1)	X304	S: 10/19/2009 14:45		
ME00S0	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105172 (NaOH) (1)	X203	S: 10/20/2009 9:00		
ME00S1	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105173 (NaOH) (1)	X204	S: 10/20/2009 9:30		
ME00S2	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105174 (NaOH) (1)	X205	S: 10/20/2009 9:30		
ME00S3	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105175 (NaOH) (1)	X206	S: 10/20/2009 10:00		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 27650
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? + / Shipment Iced? +

ICP, Hg,CN = CLP ICP Metals, Hg, CN

'R Number: 5-162075208-102209-0003

R provides preliminary results. Requests for preliminary results will increase analytical costs.
end Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax
03/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 39143
DAS No:
SDG No: ME00R4

L O

Date Shipped: 10/22/2009
Carrier Name: UPS
Airbill: 1Z62 1589221008 4364
Shipped to: ChemTech Consulting Group
284 Sheffield Street
Mountainside NJ 07092
(908) 789-8900

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	10-22-09 / 1200		
2			
3			
4		Sarah Martin	10/23/09 9:50

Sampler Signature: Ken Corkill

For Lab Use Only
Lab Contract No: EPW08065
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00S4	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105176 (NaOH) (1)	X207	S: 10/20/2009 10:30		
ME00S5	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105177 (NaOH) (1)	X208	S: 10/20/2009 11:00		
ME00S6	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105178 (NaOH) (1)	X209	S: 10/20/2009 11:45		
ME00S7	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105179 (NaOH) (1)	X210	S: 10/20/2009 12:30		
ME00S8	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105180 (NaOH) (1)	X211	S: 10/20/2009 12:45		
ME00S9	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105181 (NaOH) (1)	X212	S: 10/20/2009 13:00		
ME00T0	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105182 (NaOH) (1)	X213	S: 10/20/2009 13:15		
ME00T1	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105183 (NaOH) (1)	X214	S: 10/20/2009 13:30		
ME00T6	Sediment/ Ken Corkill	L/G	ICP, Hg,CN (21)	5C-105189 (NaOH) (1)	X215	S: 10/20/2009 13:45		

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Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 27657
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

ICP, Hg,CN = CLP ICP Metals, Hg, CN

TR Number: 5-162075208-102209-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME00R4
CASE # 39143
CONTRACT # EPW08065
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHEM
CHEMTECH PROJECT #A4823

A. Number of Samples and Date of Receipt

19 Soil Samples were delivered to the laboratory intact on 10/23/09

B. Parameters

Test requested for Metals CLP FULL (by ICP-AES), Hg & CN.

C. Cooler Temp

Indicator Bottle: Presence/Absence
Cooler: 5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue: The TR/COC does not designate a sample as laboratory QC for SDG ME00R4; however, per Scheduling laboratory QC is required. The laboratory would like to select sample ME00S0 as laboratory QC in SDG ME00R4.

E. Corrective Action taken for above:

Resolution: In accordance with previous Direction from Region 5, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for laboratory QC, and proceed with the analysis of the samples. If the laboratory is not sure that the sample they selected is not a PE, blank, or rinsate sample, they will contact SMO and wait for a resolution from the Region.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ILM05.4

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G. Calculation:

Calculation example for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in mg/L or ppm for ICP-AES) X 1000 X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in ICP-Soil Prep.

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10 (1.0 X10 or 0.50 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.5 g to Final Volume 50ml)

Or

Example of Fraction of Sample Amount Taken in ICP-AES Soil Prep = 1/10.2 (1.02 X 10 or 0.51 X 20)
(if 1.02 g of sample taken during Digestion and the Final Volume was made to 100 ml or 0.51 g to Final Volume 50ml)

Etc.

Calculation example for Hg Soil Sample:

Conversion of Results from ppb to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in ppb for Hg) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1/ 2 (0.2 X 10)
(if 0.2 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 2.1 (0.21 X 10)
(if 0.21 g of sample taken during Digestion and the Final Volume was made to 100 ml)

Etc.

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Mountainside, NJ 07092

Calculation example for CN Soil Sample:

Conversion of Results from Ug/L to mg/kg (Dry Weight Basis):

Results reported in Mg/Kg = (Result in Ug/L for CN) X Fraction of % Solid (100/ % Solid) X Dilution Factor (if any) X Fraction of Sample Amount Taken in Prep.

Example of Fraction of Sample Amount Taken in CN Soil Prep = 1/20 (1 X 20)
(if 1.0 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Or

Example of Fraction of Sample Amount Taken in Hg Soil Prep = 1 / 20.2 (1.01 X 20)
(if 1.01 g of sample taken during Digestion and the Final Volume was made to 50 ml)

Etc.

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Cadmium & Silver. Duplicate sample did meet requirements except for Arsenic, Cobalt, Iron, Manganese & Mercury. Serial Dilution did meet requirements except for Aluminum, Barium, Calcium, Copper, Iron, Magnesium, Manganese, Sodium & Zinc.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature M. Dolores Reyes Name: Mildred V. Reyes

Date 11/12/09 Title: Document Control Officer

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Friday, October 23, 2009 1:26 PM
To: Snehal Mehta
Cc: Wagner, Mark; Carlene Thomas; Howard Pham; Warren Layne
Subject: Region 05 | Case 39143 | Lab CHEM | SDG ME00R4 | Issue Insufficient/inappropriate designation of laboratory QC | FINAL
Attachments: Case-39143-LRD-10-23-09.pdf

Snehal,

Summary Start
Issue: The TR/COC does not designate a sample as laboratory QC for SDG ME00R4; however, per Scheduling laboratory QC is required. The laboratory would like to select sample ME00S0 as laboratory QC in SDG ME00R4.
Resolution: In accordance with previous Direction from Region 5, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for laboratory QC, and proceed with the analysis of the samples. If the laboratory is not sure that the sample they selected is not a PE, blank, or rinsate sample, they will contact SMO and wait for a resolution from the Region.

SMO will note the selection of sample ME00S0 as laboratory QC in SDG ME00R4.
Summary End

Please let me know if you have any additional questions.

Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151
Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Snehal Mehta [mailto:Snehal@chemtech.net]
Sent: Friday, October 23, 2009 12:59 PM
To: Mroz, Ryan
Subject: Region 5 | Case 39143 | Lab CHEM | Issue Insufficient/inappropriate designation of laboratory QC |

Sara,

Issue : Lab received samples w/o any QC samples listed on TR/COC, lab wanted to Select 'ME00S0'
SDG#ME00R4

Thanks,

Pramod Mehta
244 Sheffield Street
Mountainside, NJ 07092
Phone: (908) 789 8900 Ext: 2158
Direct Line: (908)-121-2158
Fax: (908) 789 8922
www.Chemtech.net

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NOV 1 3 2009

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COVER PAGE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME00R4	A4823-01
ME00R5	A4823-02
ME00R6	A4823-03
ME00R7	A4823-04
ME00R8	A4823-05
ME00R9	A4823-06
ME00S0	A4823-07
ME00S0D	A4823-08
ME00S0S	A4823-09
ME00S1	A4823-10
ME00S2	A4823-11
ME00S3	A4823-12
ME00S4	A4823-13
ME00S5	A4823-14
ME00S6	A4823-15
ME00S7	A4823-16
ME00S8	A4823-17
ME00S9	A4823-18
ME00T0	A4823-19
ME00T1	A4823-20
ME00T6	A4823-21

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	

Comments:
THE "E" QUALIFIERS ON FORM I AND VIII FOR ALUMINUM, BARIUM, CALCIUM, COPPER, IRON, MAGNESIUM,
MANGANESE, SODIUM AND ZINC INDICATE CHEMICAL OR PHYSICAL INTERFERENCE EFFECTS, WHICH WERE SUSPECTED

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mildred V. Reyes Name: MILDRED V. REYES

Date: 11/12/09 Title: DOCUMENT CONTROL OFFICER

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EPA SAMPLE NO.

ME00R4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-01

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 59.3

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900		E	P
7440-36-0	Antimony	11.7		N	P
7440-38-2	Arsenic	16.9		*	P
7440-39-3	Barium	195		E	P
7440-41-7	Beryllium	0.83			P
7440-43-9	Cadmium	26.7		N	P
7440-70-2	Calcium	2800		E	P
7440-47-3	Chromium	16.6			P
7440-48-4	Cobalt	9.6		*	P
7440-50-8	Copper	270		E	P
7439-89-6	Iron	20000		*E	P
7439-92-1	Lead	625			P
7439-95-4	Magnesium	1290		E	P
7439-96-5	Manganese	763		*E	P
7439-97-6	Mercury	0.035	J	*	CV
7440-02-0	Nickel	58.3			P
7440-09-7	Potassium	905			P
7782-49-2	Selenium	3.4	J		P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	159	J	E	P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	45.0			P
7440-66-6	Zinc	4340		E	P
57-12-5	Cyanide	4.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-02

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.2

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700		E	P
7440-36-0	Antimony	20.6		N	P
7440-38-2	Arsenic	75.3		*	P
7440-39-3	Barium	215		E	P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	22.4		N	P
7440-70-2	Calcium	2030		E	P
7440-47-3	Chromium	23.4			P
7440-48-4	Cobalt	13.0		*	P
7440-50-8	Copper	297		E	P
7439-89-6	Iron	34600		*E	P
7439-92-1	Lead	1580			P
7439-95-4	Magnesium	1080		E	P
7439-96-5	Manganese	1510		*E	P
7439-97-6	Mercury	0.11	J	*	CV
7440-02-0	Nickel	84.0			P
7440-09-7	Potassium	640			P
7782-49-2	Selenium	5.5			P
7440-22-4	Silver	0.99	U	N	P
7440-23-5	Sodium	153	J	E	P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	72.7			P
7440-66-6	Zinc	5740		ED	P
57-12-5	Cyanide	3.3	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-03

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 75.8

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13400		E	P
7440-36-0	Antimony	212		N	P
7440-38-2	Arsenic	70.3		*	P
7440-39-3	Barium	732		E	P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	64.8		N	P
7440-70-2	Calcium	13600		E	P
7440-47-3	Chromium	128			P
7440-48-4	Cobalt	15.5		*	P
7440-50-8	Copper	3640		E	P
7439-89-6	Iron	42600		*E	P
7439-92-1	Lead	12400			P
7439-95-4	Magnesium	2430		E	P
7439-96-5	Manganese	913		*E	P
7439-97-6	Mercury	4.0		*	CV
7440-02-0	Nickel	667			P
7440-09-7	Potassium	785			P
7782-49-2	Selenium	6.8			P
7440-22-4	Silver	4.3		N	P
7440-23-5	Sodium	1130		E	P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	41.7			P
7440-66-6	Zinc	205000		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00R7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-04

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 62.5

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5200		E	P
7440-36-0	Antimony	98.8		N	P
7440-38-2	Arsenic	55.2		*	P
7440-39-3	Barium	115		E	P
7440-41-7	Beryllium	0.53	J		P
7440-43-9	Cadmium	16.9		N	P
7440-70-2	Calcium	859		E	P
7440-47-3	Chromium	21.9			P
7440-48-4	Cobalt	7.1		*	P
7440-50-8	Copper	2240		E	P
7439-89-6	Iron	23400		*E	P
7439-92-1	Lead	37600		D	P
7439-95-4	Magnesium	468	J	E	P
7439-96-5	Manganese	294		*E	P
7439-97-6	Mercury	2.3		*	CV
7440-02-0	Nickel	491			P
7440-09-7	Potassium	190	J		P
7782-49-2	Selenium	8.4			P
7440-22-4	Silver	6.6		N	P
7440-23-5	Sodium	202	J	E	P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	22.9			P
7440-66-6	Zinc	277000		ED	P
57-12-5	Cyanide	3.8	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-05

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 76.5

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7790		E	P
7440-36-0	Antimony	195		N	P
7440-38-2	Arsenic	26.3		*	P
7440-39-3	Barium	108		E	P
7440-41-7	Beryllium	0.99			P
7440-43-9	Cadmium	23.8		N	P
7440-70-2	Calcium	2480		E	P
7440-47-3	Chromium	40.8			P
7440-48-4	Cobalt	19.6		*	P
7440-50-8	Copper	1720		E	P
7439-89-6	Iron	31300		*E	P
7439-92-1	Lead	1950			P
7439-95-4	Magnesium	627		E	P
7439-96-5	Manganese	372		*E	P
7439-97-6	Mercury	0.18		*	CV
7440-02-0	Nickel	1770			P
7440-09-7	Potassium	539			P
7782-49-2	Selenium	5.4			P
7440-22-4	Silver	0.49	J	N	P
7440-23-5	Sodium	289	J	E	P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	26.6			P
7440-66-6	Zinc	31000		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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EPA SAMPLE NO.

ME00R9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-06

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 81.8

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6410		E	P
7440-36-0	Antimony	57.6		N	P
7440-38-2	Arsenic	61.4		*	P
7440-39-3	Barium	278		E	P
7440-41-7	Beryllium	0.99			P
7440-43-9	Cadmium	29.9		N	P
7440-70-2	Calcium	5920		E	P
7440-47-3	Chromium	157			P
7440-48-4	Cobalt	11.9		*	P
7440-50-8	Copper	536		E	P
7439-89-6	Iron	114000		*E	P
7439-92-1	Lead	2140			P
7439-95-4	Magnesium	2030		E	P
7439-96-5	Manganese	1940		*E	P
7439-97-6	Mercury	1.0		*	CV
7440-02-0	Nickel	193			P
7440-09-7	Potassium	204	J		P
7782-49-2	Selenium	16.2			P
7440-22-4	Silver	0.96	U	N	P
7440-23-5	Sodium	313	J	E	P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	25.9			P
7440-66-6	Zinc	204000		ED	P
57-12-5	Cyanide	0.96	J		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
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EPA SAMPLE NO.

ME00S0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-07

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8700		E	P
7440-36-0	Antimony	41.8		N	P
7440-38-2	Arsenic	27.8		*	P
7440-39-3	Barium	327		E	P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	23.2		N	P
7440-70-2	Calcium	1930		E	P
7440-47-3	Chromium	17.2			P
7440-48-4	Cobalt	18.0		*	P
7440-50-8	Copper	1950		E	P
7439-89-6	Iron	25200		*E	P
7439-92-1	Lead	2460			P
7439-95-4	Magnesium	970		E	P
7439-96-5	Manganese	2160		*E	P
7439-97-6	Mercury	0.33		*	CV
7440-02-0	Nickel	122			P
7440-09-7	Potassium	526	J		P
7782-49-2	Selenium	3.5	J		P
7440-22-4	Silver	1.4	U	N	P
7440-23-5	Sodium	279	J	E	P
7440-28-0	Thallium	3.5	U		P
7440-62-2	Vanadium	46.2			P
7440-66-6	Zinc	5430		E	P
57-12-5	Cyanide	3.5	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-10

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 77.4

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7060		E	P
7440-36-0	Antimony	44.0		N	P
7440-38-2	Arsenic	15.5		*	P
7440-39-3	Barium	194		E	P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	9.5		N	P
7440-70-2	Calcium	1290		E	P
7440-47-3	Chromium	14.4			P
7440-48-4	Cobalt	10.3		*	P
7440-50-8	Copper	1130		E	P
7439-89-6	Iron	17500		*E	P
7439-92-1	Lead	1230			P
7439-95-4	Magnesium	769		E	P
7439-96-5	Manganese	1160		*E	P
7439-97-6	Mercury	0.17		*	CV
7440-02-0	Nickel	92.6			P
7440-09-7	Potassium	366	J		P
7782-49-2	Selenium	2.9	J		P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	193	J	E	P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	36.4			P
7440-66-6	Zinc	4410		E	P
57-12-5	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-11

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 77.7

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7120		E	P
7440-36-0	Antimony	39.9		N	P
7440-38-2	Arsenic	19.3		*	P
7440-39-3	Barium	158		E	P
7440-41-7	Beryllium	0.72			P
7440-43-9	Cadmium	10.6		N	P
7440-70-2	Calcium	1340		E	P
7440-47-3	Chromium	17.4			P
7440-48-4	Cobalt	10.6		*	P
7440-50-8	Copper	1260		E	P
7439-89-6	Iron	21900		*E	P
7439-92-1	Lead	1380			P
7439-95-4	Magnesium	764		E	P
7439-96-5	Manganese	1070		*E	P
7439-97-6	Mercury	0.21		*	CV
7440-02-0	Nickel	88.9			P
7440-09-7	Potassium	338	J		P
7782-49-2	Selenium	3.1			P
7440-22-4	Silver	0.88	U	N	P
7440-23-5	Sodium	218	J	E	P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	42.4			P
7440-66-6	Zinc	4960		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-12

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.6

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13700		E	P
7440-36-0	Antimony	9.5		N	P
7440-38-2	Arsenic	6.4		*	P
7440-39-3	Barium	129		E	P
7440-41-7	Beryllium	0.69			P
7440-43-9	Cadmium	45.3		N	P
7440-70-2	Calcium	2460		E	P
7440-47-3	Chromium	16.3			P
7440-48-4	Cobalt	5.4	J	*	P
7440-50-8	Copper	352		E	P
7439-89-6	Iron	12600		*E	P
7439-92-1	Lead	851			P
7439-95-4	Magnesium	1480		E	P
7439-96-5	Manganese	257		*E	P
7439-97-6	Mercury	0.15		*	CV
7440-02-0	Nickel	113			P
7440-09-7	Potassium	1010			P
7782-49-2	Selenium	2.4	J		P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	154	J	E	P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	26.7			P
7440-66-6	Zinc	10500		ED	P
57-12-5	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-13

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 72.3

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7080		E	P
7440-36-0	Antimony	17.7		N	P
7440-38-2	Arsenic	7.4		*	P
7440-39-3	Barium	144		E	P
7440-41-7	Beryllium	0.44	J		P
7440-43-9	Cadmium	6.6		N	P
7440-70-2	Calcium	1830		E	P
7440-47-3	Chromium	9.4			P
7440-48-4	Cobalt	3.2	J	*	P
7440-50-8	Copper	1520		E	P
7439-89-6	Iron	10300		*E	P
7439-92-1	Lead	1560			P
7439-95-4	Magnesium	859		E	P
7439-96-5	Manganese	230		*E	P
7439-97-6	Mercury	0.28		*	CV
7440-02-0	Nickel	42.1			P
7440-09-7	Potassium	458	J		P
7782-49-2	Selenium	1.8	J		P
7440-22-4	Silver	0.18	J	N	P
7440-23-5	Sodium	210	J	E	P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	19.2			P
7440-66-6	Zinc	3980		E	P
57-12-5	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-14

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 72.2

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9700		E	P
7440-36-0	Antimony	50.3		N	P
7440-38-2	Arsenic	30.2		*	P
7440-39-3	Barium	425		E	P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	23.1		N	P
7440-70-2	Calcium	2590		E	P
7440-47-3	Chromium	22.7			P
7440-48-4	Cobalt	27.2		*	P
7440-50-8	Copper	1410		E	P
7439-89-6	Iron	38900		*E	P
7439-92-1	Lead	2630			P
7439-95-4	Magnesium	1020		E	P
7439-96-5	Manganese	3550		*E	P
7439-97-6	Mercury	0.32		*	CV
7440-02-0	Nickel	188			P
7440-09-7	Potassium	607	J		P
7782-49-2	Selenium	5.9			P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	321	J	E	P
7440-28-0	Thallium	3.3	U		P
7440-62-2	Vanadium	70.5			P
7440-66-6	Zinc	9420		ED	P
57-12-5	Cyanide	3.4	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-15

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 79.7

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7750		E	P
7440-36-0	Antimony	99.7		N	P
7440-38-2	Arsenic	17.8		*	P
7440-39-3	Barium	121		E	P
7440-41-7	Beryllium	0.63			P
7440-43-9	Cadmium	5.8		N	P
7440-70-2	Calcium	1250		E	P
7440-47-3	Chromium	13.0			P
7440-48-4	Cobalt	7.8		*	P
7440-50-8	Copper	1700		E	P
7439-89-6	Iron	18100		*E	P
7439-92-1	Lead	1690			P
7439-95-4	Magnesium	822		E	P
7439-96-5	Manganese	759		*E	P
7439-97-6	Mercury	0.20		*	CV
7440-02-0	Nickel	51.3			P
7440-09-7	Potassium	399	J		P
7782-49-2	Selenium	2.7	J		P
7440-22-4	Silver	0.46	J	N	P
7440-23-5	Sodium	189	J	E	P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	36.9			P
7440-66-6	Zinc	3620		E	P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S7

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-16

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 66.6

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8610		E	P
7440-36-0	Antimony	37.6		N	P
7440-38-2	Arsenic	9.0		*	P
7440-39-3	Barium	126		E	P
7440-41-7	Beryllium	0.58	J		P
7440-43-9	Cadmium	4.6		N	P
7440-70-2	Calcium	1570		E	P
7440-47-3	Chromium	13.8			P
7440-48-4	Cobalt	6.7		*	P
7440-50-8	Copper	1580		E	P
7439-89-6	Iron	11800		*E	P
7439-92-1	Lead	1570			P
7439-95-4	Magnesium	821		E	P
7439-96-5	Manganese	378		*E	P
7439-97-6	Mercury	0.28		*	CV
7440-02-0	Nickel	104			P
7440-09-7	Potassium	530	J		P
7782-49-2	Selenium	2.3	J		P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	169	J	E	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	27.6			P
7440-66-6	Zinc	3850		E	P
57-12-5	Cyanide	3.8	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S8

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-17

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 74.5

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9180		E	P
7440-36-0	Antimony	74.4		N	P
7440-38-2	Arsenic	17.5		*	P
7440-39-3	Barium	162		E	P
7440-41-7	Beryllium	0.69			P
7440-43-9	Cadmium	10		N	P
7440-70-2	Calcium	1860		E	P
7440-47-3	Chromium	40.2			P
7440-48-4	Cobalt	11.6		*	P
7440-50-8	Copper	3280		E	P
7439-89-6	Iron	22300		*E	P
7439-92-1	Lead	2010			P
7439-95-4	Magnesium	837		E	P
7439-96-5	Manganese	528		*E	P
7439-97-6	Mercury	0.29		*	CV
7440-02-0	Nickel	1200			P
7440-09-7	Potassium	371	J		P
7782-49-2	Selenium	3.3	J		P
7440-22-4	Silver	0.90	J	N	P
7440-23-5	Sodium	331	J	E	P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	34.3			P
7440-66-6	Zinc	22700		ED	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00S9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-18

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 75.7

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10000		E	P
7440-36-0	Antimony	24.1		N	P
7440-38-2	Arsenic	15.5		*	P
7440-39-3	Barium	125		E	P
7440-41-7	Beryllium	0.56	J		P
7440-43-9	Cadmium	8.2		N	P
7440-70-2	Calcium	1960		E	P
7440-47-3	Chromium	14.7			P
7440-48-4	Cobalt	4.6	J	*	P
7440-50-8	Copper	577		E	P
7439-89-6	Iron	13600		*E	P
7439-92-1	Lead	1220			P
7439-95-4	Magnesium	1360		E	P
7439-96-5	Manganese	204		*E	P
7439-97-6	Mercury	0.13	U	*	CV
7440-02-0	Nickel	194			P
7440-09-7	Potassium	512	J		P
7782-49-2	Selenium	2.1	J		P
7440-22-4	Silver	0.31	J	N	P
7440-23-5	Sodium	185	J	E	P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	23.1			P
7440-66-6	Zinc	11800		ED	P
57-12-5	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-19

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 71.3

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9310		E	P
7440-36-0	Antimony	13.6		N	P
7440-38-2	Arsenic	39.0		*	P
7440-39-3	Barium	782		E	P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	15.3		N	P
7440-70-2	Calcium	3050		E	P
7440-47-3	Chromium	18.7			P
7440-48-4	Cobalt	24.7		*	P
7440-50-8	Copper	230		E	P
7439-89-6	Iron	48100		*E	P
7439-92-1	Lead	1070			P
7439-95-4	Magnesium	952		E	P
7439-96-5	Manganese	7800		*E	P
7439-97-6	Mercury	0.046	J	*	CV
7440-02-0	Nickel	95.6			P
7440-09-7	Potassium	420	J		P
7782-49-2	Selenium	6.1			P
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	223	J	E	P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	48.0			P
7440-66-6	Zinc	9460		ED	P
57-12-5	Cyanide	3.5	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

IA-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-20

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 72.0

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9350		E	P
7440-36-0	Antimony	2.1	J	N	P
7440-38-2	Arsenic	6.9		*	P
7440-39-3	Barium	131		E	P
7440-41-7	Beryllium	0.64			P
7440-43-9	Cadmium	0.63	U	N	P
7440-70-2	Calcium	2350		E	P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	7.5		*	P
7440-50-8	Copper	31.0		E	P
7439-89-6	Iron	16400		*E	P
7439-92-1	Lead	63.4			P
7439-95-4	Magnesium	1050		E	P
7439-96-5	Manganese	689		*E	P
7439-97-6	Mercury	0.031	J	*	CV
7440-02-0	Nickel	17.2			P
7440-09-7	Potassium	698			P
7782-49-2	Selenium	2.4	J		P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	153	J	E	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	28.8			P
7440-66-6	Zinc	483		E	P
57-12-5	Cyanide	3.2	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

FORM IA-IN ILM05.4

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00T6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: SDG No.: ME00R4

Matrix: (soil/water) SOIL Lab Sample ID: A4823-21

Level: (low/med) LOW Date Received: 10/23/2009

% Solids: 65.4

Concentration Units (**ug/L** or **mg/kg** dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500		E	P
7440-36-0	Antimony	1.9	J	N	P
7440-38-2	Arsenic	5.1		*	P
7440-39-3	Barium	120		E	P
7440-41-7	Beryllium	0.71			P
7440-43-9	Cadmium	0.64	U	N	P
7440-70-2	Calcium	2650		E	P
7440-47-3	Chromium	12.9			P
7440-48-4	Cobalt	3.4	J	*	P
7440-50-8	Copper	32.4		E	P
7439-89-6	Iron	15800		*E	P
7439-92-1	Lead	90.0			P
7439-95-4	Magnesium	1140		E	P
7439-96-5	Manganese	202		*E	P
7439-97-6	Mercury	0.15	U	*	CV
7440-02-0	Nickel	12.1			P
7440-09-7	Potassium	888			P
7782-49-2	Selenium	2.7	J		P
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	136	J	E	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	26.1			P
7440-66-6	Zinc	332		E	P
57-12-5	Cyanide	3.6	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	14.686	J	18.041	J	200.000	U	20.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	20.000	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	0.500	U	P
Cadmium	5.000	U	0.443	J	0.581	J	0.500	J	0.500	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	22.433	J	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Iron	100.000	U	100.000	U	100.000	U	22.586	J	10.000	U	P
Lead	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	500.000	U	P
Manganese	15.000	U	15.000	U	15.000	U	15.000	U	1.500	U	P
Mercury	0.200	U	-0.044	J	0.200	U	0.200	U	0.048	J	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	4.000	U	P
Potassium	-94.630	J	-104.462	J	5000.000	U	-97.521	J	500.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	3.500	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	1.000	U	P
Sodium	78.146	J	5000.000	U	5000.000	U	5000.000	U	17.709	J	P
Thallium	25.000	U	25.000	U	25.000	U	25.000	U	2.500	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	5.000	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	6.000	U	P
Cyanide	-4.693	J	-4.266	J	-4.820	J	-4.140	J	-0.258	J	AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			25.214	J	16.985	J	21.018	J			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			10.000	U	10.000	U	10.000	U			P
Barium			5.415	J	200.000	U	200.000	U			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			1.019	J	0.459	J	0.591	J			P
Calcium			5000.000	U	5000.000	U	5000.000	U			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			18.549	J	100.000	U	100.000	U			P
Lead			10.000	U	10.000	U	10.000	U			P
Magnesium			5000.000	U	5000.000	U	5000.000	U			P
Manganese			15.000	U	15.000	U	15.000	U			P
Mercury			-0.044	J	-0.040	J	-0.043	J	0.100	U	CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			-93.318	J	5000.000	U	-112.006	J			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			111.776	J	-72.347	J	34.938	J			P
Thallium			25.000	U	25.000	U	25.000	U			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	60.000	U			P
Cyanide			-4.787	J	-5.272	J	-4.983	J			AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			26.773	J	37.273	J	33.810	J			P
Antimony			60.000	U	60.000	U	60.000	U			P
Arsenic			4.356	J	3.507	J	10.000	U			P
Barium			6.254	J	8.287	J	9.591	J			P
Beryllium			5.000	U	5.000	U	5.000	U			P
Cadmium			1.087	J	1.532	J	1.702	J			P
Calcium			5000.000	U	35.144	J	33.220	J			P
Chromium			10.000	U	1.030	J	1.093	J			P
Cobalt			50.000	U	50.000	U	50.000	U			P
Copper			25.000	U	25.000	U	25.000	U			P
Iron			100.000	U	100.000	U	100.000	U			P
Lead			10.000	U	3.871	J	4.007	J			P
Magnesium			5000.000	U	42.511	J	48.303	J			P
Manganese			15.000	U	2.257	J	2.365	J			P
Mercury			-0.046	J							CV
Nickel			40.000	U	40.000	U	40.000	U			P
Potassium			-88.498	J	5000.000	U	5000.000	U			P
Selenium			35.000	U	35.000	U	35.000	U			P
Silver			10.000	U	10.000	U	10.000	U			P
Sodium			-98.093	J	5000.000	U	-56.436	J			P
Thallium			25.000	U	25.000	U	4.053	J			P
Vanadium			50.000	U	50.000	U	50.000	U			P
Zinc			60.000	U	60.000	U	5.280	J			P
Cyanide			-4.645	J	-7.016	J					AS

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum			39.815	J	38.190	J					P
Antimony			60.000	U	60.000	U					P
Arsenic			4.843	J	4.610	J					P
Barium			11.775	J	12.730	J					P
Beryllium			5.000	U	5.000	U					P
Cadmium			2.375	J	2.346	J					P
Calcium			46.336	J	55.313	J					P
Chromium			1.206	J	1.848	J					P
Cobalt			50.000	U	50.000	U					P
Copper			5.217	J	25.000	U					P
Iron			100.000	U	55.317	J					P
Lead			5.013	J	5.374	J					P
Magnesium			54.820	J	132.709	J					P
Manganese			2.882	J	4.007	J					P
Mercury	0.200	U	0.200	U	0.072	J	0.102	J			CV
Nickel			40.000	U	3.659	J					P
Potassium			-82.816	J	5000.000	U					P
Selenium			35.000	U	35.000	U					P
Silver			10.000	U	10.000	U					P
Sodium			-81.701	J	5000.000	U					P
Thallium			5.527	J	5.172	J					P
Vanadium			50.000	U	50.000	U					P
Zinc			60.000	U	60.000	U					P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Blank Matrix (soil/water):_____

Preparation Blank Concentration Units (ug/L or mg/kg):_____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.200	U	0.200	U	0.078	J			CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000	247000	101	246000	102	252000	103	250000	104
Antimony	0	589	1.5		592	101	2.5		592	101
Arsenic	0	101	3.4		100	99	1.2		97.0	96
Barium	2.0	495	3.0	150	509	103	3.9	195	522	105
Beryllium	0	475	1.2		504	106	0.90		512	108
Cadmium	0	940	-5.1		961	102	-5.3		949	101
Calcium	235000	231000	246000	105	243000	105	250000	106	247000	107
Chromium	43.0	511	44.8	104	534	105	46.7	109	534	105
Cobalt	4.0	461	5.8	145	481	104	5.4	135	479	104
Copper	23.0	548	23.0	100	512	93	21.9	95	523	95
Iron	95600	94800	95700	100	94600	100	96400	101	95300	101
Lead	10.0	61.0	11.3	113	59.8	98	11.2	112	59.4	97
Magnesium	248000	251000	256000	103	253000	101	258000	104	254000	101
Manganese	19.0	502	21.2	112	503	100	20.5	108	509	101
Nickel	21.0	984	22.2	106	985	100	21.8	104	974	99
Potassium	0	0	54.7		-4.2		-24.7		-22.2	
Selenium	0	53.0	10.5		60.5	114	10.9		60.8	115
Silver	0	206	-5.3		207	100	-5.9		207	100
Sodium	0	0	1010		1020		1050		991	
Thallium	0	103	-0.38		95.5	93	-0.0064		97.9	95
Vanadium	0	494	0.37		476	96	0.072		485	98
Zinc	28.0	1030	36.3	130	1030	100	35.5	127	1020	99

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					247000	101	254000	105
Antimony	0	589					3.2		582	99
Arsenic	0	101					2.1		97.9	97
Barium	2.0	495					4.8	240	538	109
Beryllium	0	475					0.76		515	108
Cadmium	0	940					-5.2		897	95
Calcium	235000	231000					245000	104	248000	107
Chromium	43.0	511					44.3	103	528	103
Cobalt	4.0	461					5.6	140	463	100
Copper	23.0	548					23.4	102	522	95
Iron	95600	94800					93200	97	94100	99
Lead	10.0	61.0					11.4	114	58.3	96
Magnesium	248000	251000					248000	100	250000	100
Manganese	19.0	502					20.4	107	509	101
Nickel	21.0	984					21.4	102	927	94
Potassium	0	0					-35.0		7.9	
Selenium	0	53.0					10		56.9	107
Silver	0	206					-6.3		206	100
Sodium	0	0					910		976	
Thallium	0	103					-1.8		94.2	91
Vanadium	0	494					0.20		492	100
Zinc	28.0	1030					36.6	131	984	96

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					251000	103	250000	104
Antimony	0	589					1.9		592	101
Arsenic	0	101					3.9		102	101
Barium	2.0	495					3.3	165	522	105
Beryllium	0	475					1.1		510	107
Cadmium	0	940					-5.3		927	99
Calcium	235000	231000					243000	103	242000	105
Chromium	43.0	511					45.6	106	544	106
Cobalt	4.0	461					5.7	143	475	103
Copper	23.0	548					20.6	90	516	94
Iron	95600	94800					92300	97	92400	97
Lead	10.0	61.0					11.1	111	57.1	94
Magnesium	248000	251000					247000	100	247000	98
Manganese	19.0	502					20.2	106	500	100
Nickel	21.0	984					21.5	102	951	97
Potassium	0	0					-74.3		-62.1	
Selenium	0	53.0					10		55.6	105
Silver	0	206					-6.6		209	101
Sodium	0	0					1010		959	
Thallium	0	103					-0.26		94.0	91
Vanadium	0	494					0.11		494	100
Zinc	28.0	1030					35.8	128	979	95

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					245000	100	246000	102
Antimony	0	589					2.1		581	99
Arsenic	0	101					1.2		98.0	97
Barium	2.0	495					3.1	155	514	104
Beryllium	0	475					1.1		502	106
Cadmium	0	940					-5.0		885	94
Calcium	235000	231000					236000	100	238000	103
Chromium	43.0	511					44.4	103	528	103
Cobalt	4.0	461					5.2	130	459	100
Copper	23.0	548					23.2	101	506	92
Iron	95600	94800					90400	95	90800	96
Lead	10.0	61.0					11.8	118	57.0	93
Magnesium	248000	251000					241000	97	242000	96
Manganese	19.0	502					19.9	105	493	98
Nickel	21.0	984					20.5	98	914	93
Potassium	0	0					-1.6		-24.9	
Selenium	0	53.0					7.8		56.6	107
Silver	0	206					-6.4		203	99
Sodium	0	0					1100		1040	
Thallium	0	103					0.38		91.7	89
Vanadium	0	494					0.47		491	99
Zinc	28.0	1030					33.2	119	963	93

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					241000	99	255000	106
Antimony	0	589					2.2		569	97
Arsenic	0	101					3.1		97.0	96
Barium	2.0	495					3.2	160	539	109
Beryllium	0	475					1.2		520	109
Cadmium	0	940					-5.0		882	94
Calcium	235000	231000					234000	100	250000	108
Chromium	43.0	511					43.4	101	515	101
Cobalt	4.0	461					5.2	130	455	99
Copper	23.0	548					22.6	98	526	96
Iron	95600	94800					89300	93	94700	100
Lead	10.0	61.0					10.8	108	55.5	91
Magnesium	248000	251000					239000	96	253000	101
Manganese	19.0	502					19.9	105	514	102
Nickel	21.0	984					21.0	100	905	92
Potassium	0	0					-56.1		-94.4	
Selenium	0	53.0					7.8		56.2	106
Silver	0	206					-6.2		200	97
Sodium	0	0					965		1030	
Thallium	0	103					0.13		91.2	89
Vanadium	0	494					0.50		501	101
Zinc	28.0	1030					33.1	118	1010	98

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

ICP-AES Instrument ID: P5 ICS Source: EPA1206-0203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000	241000					246000	101	248000	103
Antimony	0	589					0.39		589	100
Arsenic	0	101					2.4		99.8	99
Barium	2.0	495					3.3	165	523	106
Beryllium	0	475					1.3		505	106
Cadmium	0	940					-5.2		888	94
Calcium	235000	231000					237000	101	241000	104
Chromium	43.0	511					43.7	102	517	101
Cobalt	4.0	461					5.4	135	464	101
Copper	23.0	548					21.5	93	515	94
Iron	95600	94800					89700	94	91100	96
Lead	10.0	61.0					10.5	105	56.6	93
Magnesium	248000	251000					240000	97	243000	97
Manganese	19.0	502					20.3	107	496	99
Nickel	21.0	984					19.9	95	918	93
Potassium	0	0					-34.5		-17.1	
Selenium	0	53.0					9.8		54.4	103
Silver	0	206					-6.8		199	97
Sodium	0	0					935		1000	
Thallium	0	103					0.97		95.2	92
Vanadium	0	494					0.87		487	99
Zinc	28.0	1030					33.0	118	969	94

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00S0S

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 71.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	57.0439		41.7845		27.82	55	N	P
Arsenic	75-125	36.2771		27.8180		11.13	76		P
Barium	75-125	795.0960		326.6960		556.33	84		P
Beryllium	75-125	14.5344		0.8045		13.91	99		P
Cadmium	75-125	31.3036		23.2481		13.91	58	N	P
Calcium									NR
Chromium	75-125	74.7577		17.2054		55.63	103		P
Cobalt	75-125	139.2780		18.0021		139.08	87		P
Copper		3053.4478		1954.9673		69.54	1580		P
Iron									NR
Lead		3077.2024		2463.8067		5.56	11032		P
Magnesium									NR
Manganese		842.5727		2159.5139		139.08	-947		P
Mercury	75-125	1.0090		0.3338		0.70	96		CV
Nickel	75-125	234.9995		121.8210		139.08	81		P
Potassium									NR
Selenium	75-125	16.9420		3.5445	J	13.91	96		P
Silver	75-125	19.2076		1.3908	U	13.91	138	N	P
Sodium									NR
Thallium	75-125	13.2058		3.4771	U	13.91	95		P
Vanadium	75-125	185.6707		46.1744		139.08	100		P
Zinc		6407.2274		5429.3435		139.08	703		P
Cyanide	75-125	6.8668		3.4771	U	6.95	99		AS

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00S0A

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		1388.97		300.43		600.0	181		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium		727.49		167.15		330.0	170		P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA SAMPLE NO.

ME00S0D

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

% Solids for Sample: 71.9 % Solids for Duplicate: 73.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8703.9374		8378.7719		4		P
Antimony		41.7845		42.1700		1		P
Arsenic		27.8180		22.3675		22	*	P
Barium		326.6960		289.8965		12		P
Beryllium	0.7	0.8045		0.6499	J	21		P
Cadmium		23.2481		19.5650		17		P
Calcium	695.4	1930.3317		1928.8310		0		P
Chromium		17.2054		17.7081		3		P
Cobalt	7.0	18.0021		10.4659		53	*	P
Copper		1954.9673		1994.0257		2		P
Iron		25209.5341		19277.9972		27	*	P
Lead		2463.8067		2328.6481		6		P
Magnesium	695.4	970.0912		944.2367		3		P
Manganese		2159.5139		1268.3777		52	*	P
Mercury	0.1	0.3338		0.1648		68	*	CV
Nickel		121.8210		118.3413		3		P
Potassium		525.8444	J	551.6823	J	5		P
Selenium		3.5445	J	3.2025	J	10		P
Silver		1.3908	U	1.3908	U			P
Sodium		278.7213	J	226.0248	J	21		P
Thallium		3.4771	U	3.4771	U			P
Vanadium		46.1744		39.3288		16		P
Zinc		5429.3435		5829.2441		7		P
Cyanide		3.4771	U	3.4771	U			AS

USEPA - CLP

8-IN
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

ME00S0L

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Matrix: (soil/water) SOIL Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	62581.31		71172.10		14	E	P
Antimony	300.43		316.09		5		P
Arsenic	200.01		213.14		7		P
Barium	2348.94		2673.88		14	E	P
Beryllium	5.78		6.22	J	8		P
Cadmium	167.15		174.79		5		P
Calcium	13879.09		15954.95	J	15	E	P
Chromium	123.71		128.76		4		P
Cobalt	129.43		135.00	J	4		P
Copper	14056.22		16196.75		15	E	P
Iron	181256.55		210960.90		16	E	P
Lead	17714.77		19262.40		9		P
Magnesium	6974.96		8052.91	J	15	E	P
Manganese	15526.91		18068.63		16	E	P
Nickel	875.89		927.09		6		P
Potassium	3780.82	J	4415.99	J	17		P
Selenium	25.49	J	31.43	J	23		P
Silver	10.00	U	50.00	U			P
Sodium	2004.01	J	1294.55	J	35	E	P
Thallium	25.00	U	125.00	U			P
Vanadium	331.99		382.08		15		P
Zinc	39036.98		48275.66		24	E	P

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: AS Instrument ID: CN Date: 01/08/2009

Preparation Method: DS2

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury		0.1	
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide	578.00	2.5	0.048

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: AS Instrument ID: CN Date: 01/07/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		200	
Antimony		60	
Arsenic		10	
Barium		200	
Beryllium		5	
Cadmium		5	
Calcium		5000	
Chromium		10	
Cobalt		50	
Copper		25	
Iron		100	
Lead		10	
Magnesium		5000	
Manganese		15	
Mercury		0.2	
Nickel		40	
Potassium		5000	
Selenium		35	
Silver		10	
Sodium		5000	
Thallium		25	
Vanadium		50	
Zinc		60	
Cyanide	578.00	10	1.8

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: CV Instrument ID: CV2 Date: 01/08/2009

Preparation Method: CS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum		20	
Antimony		6	
Arsenic		1	
Barium		20	
Beryllium		0.5	
Cadmium		0.5	
Calcium		500	
Chromium		1	
Cobalt		5	
Copper		2.5	
Iron		10	
Lead		1	
Magnesium		500	
Manganese		1.5	
Mercury	253.70	0.1	0.020
Nickel		4	
Potassium		500	
Selenium		3.5	
Silver		1	
Sodium		500	
Thallium		2.5	
Vanadium		5	
Zinc		6	
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: HS1

Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	20	0.70
Antimony	206.83	6	0.80
Arsenic	189.04	1	0.21
Barium	493.41	20	0.47
Beryllium	234.86	0.5	0.060
Cadmium	214.44	0.5	0.050
Calcium	373.69	500	18.2
Chromium	267.72	1	0.11
Cobalt	228.62	5	0.56
Copper	324.75	2.5	0.54
Iron	259.84	10	3.9
Lead	220.35	1	0.18
Magnesium	279.08	500	11.3
Manganese	257.61	1.5	0.31
Mercury		0.1	
Nickel	231.60	4	0.38
Potassium	769.90	500	9.7
Selenium	196.09	3.5	0.49
Silver	328.07	1	0.090
Sodium	818.33	500	2.1
Thallium	190.86	2.5	0.32
Vanadium	292.40	5	0.78
Zinc	213.86	6	0.70
Cyanide		2.5	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument Type: P Instrument ID: P5 Date: 01/05/2009

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	396.15	200	12.5
Antimony	206.83	60	6.6
Arsenic	189.04	10	3.1
Barium	493.41	200	4.5
Beryllium	234.86	5	0.60
Cadmium	214.44	5	0.40
Calcium	373.69	5000	32.6
Chromium	267.72	10	1.0
Cobalt	228.62	50	5.0
Copper	324.75	25	5.1
Iron	259.84	100	18.1
Lead	220.35	10	2.0
Magnesium	279.08	5000	41.3
Manganese	257.61	15	1.8
Mercury		0.2	
Nickel	231.60	40	3.5
Potassium	769.90	5000	82.2
Selenium	196.09	35	5.4
Silver	328.07	10	1.0
Sodium	818.33	5000	33.8
Thallium	190.86	25	3.5
Vanadium	292.40	50	7.5
Zinc	213.86	60	5.0
Cyanide		10	

Comments:

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	10/28/2009		100
CCV	10/28/2009		100
CRI	10/28/2009		100
ICB	10/28/2009		100
ICV	10/28/2009		100
LCSS	10/28/2009	0.20	100
ME00R4	10/28/2009	0.20	100
ME00R5	10/28/2009	0.20 ~~0.22~~ 12-31-09	100
ME00R6	10/28/2009	0.22 ~~0.20~~	100
ME00R7	10/28/2009	0.20	100
ME00R8	10/28/2009	0.20	100
ME00R9	10/28/2009	0.20	100
ME00S0	10/28/2009	0.20	100
ME00S0D	10/28/2009	0.20	100
ME00S0S	10/28/2009	0.20	100
ME00S1	10/28/2009	0.21	100
ME00S2	10/28/2009	0.21	100
ME00S3	10/28/2009	0.20	100
ME00S4	10/28/2009	0.22	100
ME00S5	10/28/2009	0.20	100
ME00S7	10/28/2009	0.22	100
ME00S8	10/28/2009	0.20	100
ME00S9	10/28/2009	0.20	100
ME00T0	10/28/2009	0.20	100
ME00T1	10/28/2009	0.20	100
ME00T6	10/28/2009	0.20	100
PBS	10/28/2009	0.20	100
S0	10/28/2009		100
S0.2	10/28/2009		100
S2.5	10/28/2009		100
S5.0	10/28/2009		100
S7.5	10/28/2009		100
S10.0	10/28/2009		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CCB	11/02/2009		100
CCV	11/02/2009		100
CRI	11/02/2009		100
ICB	11/02/2009		100
ICV	11/02/2009		100
LCSS	11/02/2009	0.20	100
ME00S6	11/02/2009	0.20	100
PBS	11/02/2009	0.20	100
S0	11/02/2009		100
S0.2	11/02/2009		100
S2.5	11/02/2009		100
S5.0	11/02/2009		100
S7.5	11/02/2009		100
S10.0	11/02/2009		100

USEPA - CLP

12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: DS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ICV	10/27/2009		50
LCSS	10/27/2009	1.02 ~~1.00~~	50
ME00R4	10/27/2009	1.03	50
ME00R5	10/27/2009	1.06	50
ME00R6	10/27/2009	1.03	50
ME00R7	10/27/2009	1.05	50
ME00R8	10/27/2009	1.01	50
ME00R9	10/27/2009	1.04	50
ME00S0	10/27/2009	1.02 ~~1.00~~	50
ME00S0D	10/27/2009	1.06 ~~1.00~~	50
ME00S0S	10/27/2009	1.09 ~~1.00~~	50
ME00S1	10/27/2009	1.06	50
ME00S2	10/27/2009	1.00	50
ME00S3	10/27/2009	1.04	50
ME00S4	10/27/2009	1.02	50
ME00S5	10/27/2009	1.01	50
ME00S6	10/27/2009	1.02	50
ME00S7	10/27/2009	1.00	50
ME00S8	10/27/2009	1.04	50
ME00S9	10/27/2009	1.07	50
ME00T0	10/27/2009	1.01	50
ME00T1	10/27/2009	1.09	50
ME00T6	10/27/2009	1.06	50
MIDRANGE	10/27/2009		50
PBS	10/27/2009	1.03 ~~1.00~~	50

CORRECTIONS BY S. CONNET
(ESAT DATA REVIEWER)
12-31-09

FORM XII-IN ILM05.4

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12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Preparation Method: HS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	10/27/2009	1.00	100
ME00R4	10/27/2009	1.48	100
ME00R5	10/27/2009	1.42	100
ME00R6	10/27/2009	1.24	100
ME00R7	10/27/2009	1.20	100
ME00R8	10/27/2009	1.27	100
ME00R9	10/27/2009	1.28	100
ME00S0	10/27/2009	1.00	100
ME00S0D	10/27/2009	1.00	100
ME00S0S	10/27/2009	1.00	100
ME00S1	10/27/2009	1.16	100
ME00S2	10/27/2009	1.46	100
ME00S3	10/27/2009	1.24	100
ME00S4	10/27/2009	1.15	100
ME00S5	10/27/2009	1.05	100
ME00S6	10/27/2009	1.20	100
ME00S7	10/27/2009	1.16	100
ME00S8	10/27/2009	1.31	100
ME00S9	10/27/2009	1.10	100
ME00T0	10/27/2009	1.32	100
ME00T1	10/27/2009	1.10	100
ME00T6	10/27/2009	1.20	100
PBS	10/27/2009	1.00	100

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1258															X											
S0.2	1.0	1300															X											
S2.5	1.0	1302															X											
S5.0	1.0	1304															X											
S7.5	1.0	1306															X											
S10.0	1.0	1308															X											
ICV	1.0	1312															X											
ICB	1.0	1314															X											
CRI	1.0	1316															X											
CCV	1.0	1318															X											
CCB	1.0	1320															X											
ZZZZZZ	1.0	1322																										
ZZZZZZ	1.0	1324																										
ZZZZZZ	1.0	1326																										
ZZZZZZ	1.0	1329																										
ZZZZZZ	1.0	1331																										
ZZZZZZ	1.0	1333																										
ZZZZZZ	1.0	1335																										
ZZZZZZ	1.0	1337																										
ZZZZZZ	1.0	1339																										
ZZZZZZ	1.0	1341																										
CCV	1.0	1343															X											
CCB	1.0	1345															X											
ZZZZZZ	1.0	1348																										
ZZZZZZ	1.0	1350																										
ZZZZZZ	1.0	1351																										
ZZZZZZ	1.0	1354																										
ZZZZZZ	1.0	1355																										
ZZZZZZ	1.0	1357																										
ZZZZZZ	1.0	1400																										
CRI	1.0	1402															X											
CCV	1.0	1427															X											
CCB	1.0	1429															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 11/02/2009 End Date: 11/02/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1431																										
ZZZZZZ	1.0	1433																										
ZZZZZZ	1.0	1435																										
ZZZZZZ	1.0	1437																										
ZZZZZZ	1.0	1440																										
ZZZZZZ	1.0	1442																										
ZZZZZZ	1.0	1444																										
PBS	1.0	1446															X											
LCSS	1.0	1448															X											
ZZZZZZ	1.0	1450																										
CCV	1.0	1453															X											
CCB	1.0	1455															X											
ZZZZZZ	1.0	1457																										
ZZZZZZ	1.0	1500																										
ZZZZZZ	1.0	1502																										
ZZZZZZ	1.0	1504																										
ZZZZZZ	1.0	1506																										
ZZZZZZ	1.0	1508																										
ZZZZZZ	1.0	1510																										
CRI	1.0	1512															X											
CCV	1.0	1514															X											
CCB	1.0	1516															X											
ZZZZZZ	1.0	1518																										
ME00S6	1.0	1520															X											
ZZZZZZ	1.0	1522																										
ZZZZZZ	1.0	1524																										
CRI	1.0	1526															X											
CCV	1.0	1528															X											
CCB	1.0	1530															X											

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USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1432															X											
S0.2	1.0	1434															X											
S2.5	1.0	1436															X											
S5.0	1.0	1439															X											
S7.5	1.0	1441															X											
S10.0	1.0	1443															X											
ICV	1.0	1447															X											
ICB	1.0	1450															X											
CRI	1.0	1452															X											
CCV	1.0	1454															X											
CCB	1.0	1456															X											
ZZZZZZ	1.0	1458																										
ZZZZZZ	1.0	1500																										
ME00R4	1.0	1503															X											
ME00R5	1.0	1505															X											
ME00R6	1.0	1507															X											
ME00R7	1.0	1510															X											
ME00R8	1.0	1512															X											
ME00R9	1.0	1514															X											
ME00S0	1.0	1516															X											
ME00S0D	1.0	1518															X											
CCV	1.0	1520															X											
CCB	1.0	1522															X											
ME00S0S	1.0	1524															X											
ME00S1	1.0	1526															X											
ME00S2	1.0	1528															X											
ME00S3	1.0	1530															X											
ME00S4	1.0	1532															X											
ME00S5	1.0	1534															X											
ME00S7	1.0	1536															X											
CRI	1.0	1538															X											
CCV	1.0	1540															X											
CCB	1.0	1542															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00S8	1.0	1544															X											
ME00S9	1.0	1546															X											
ME00T0	1.0	1549															X											
ME00T1	1.0	1551															X											
ME00T6	1.0	1553															X											
PBS	1.0	1555															X											
LCSS	1.0	1557															X											
ZZZZZZ	1.0	1559																										
ZZZZZZ	1.0	1601																										
ZZZZZZ	1.0	1604																										
CCV	1.0	1606															X											
CCB	1.0	1609															X											
ZZZZZZ	1.0	1611																										
ZZZZZZ	1.0	1613																										
ZZZZZZ	1.0	1615																										
ZZZZZZ	1.0	1617																										
ZZZZZZ	1.0	1619																										
ZZZZZZ	1.0	1621																										
ZZZZZZ	1.0	1623																										
CRI	1.0	1626															X											
CCV	1.0	1628															X											
CCB	1.0	1629															X											
ZZZZZZ	1.0	1631																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1635																										
ZZZZZZ	1.0	1638																										
ZZZZZZ	1.0	1640																										
ZZZZZZ	1.0	1642																										
ZZZZZZ	1.0	1645																										
ZZZZZZ	1.0	1647																										
ZZZZZZ	1.0	1648																										
ZZZZZZ	1.0	1650																										
CCV	1.0	1653															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CV2 Analysis Method: CV

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCB	1.0	1655															X											
ZZZZZZ	1.0	1657																										
ZZZZZZ	1.0	1659																										
ZZZZZZ	1.0	1701																										
ZZZZZZ	1.0	1703																										
ZZZZZZ	1.0	1705																										
ZZZZZZ	1.0	1709																										
CRI	1.0	1711															X											
CCV	1.0	1714															X											
CCB	1.0	1716															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1521																								X		
S5.0	1.0	1521																								X		
S10.0	1.0	1521																								X		
S100.0	1.0	1521																								X		
S250.0	1.0	1521																								X		
S500.0	1.0	1521																								X		
ICV	1.0	1540																								X		
ICV	1.0	1540																								X		
ICV	1.0	1540																								X		
ICB	1.0	1540																								X		
CRI	1.0	1557																								X		
CCV	1.0	1557																								X		
CCB	1.0	1557																								X		
MIDRANGE	1.0	1557																								X		
MIDRANGE	1.0	1557																								X		
MIDRANGE	1.0	1557																								X		
ZZZZZZ	1.0	1557																										
PBS	1.0	1611																								X		
ZZZZZZ	1.0	1611																										
ZZZZZZ	1.0	1611																										
LCSS	1.0	1611																								X		
ZZZZZZ	1.0	1611																										
ZZZZZZ	1.0	1619																										
CCV	1.0	1622																								X		
CCB	1.0	1622																								X		
ZZZZZZ	1.0	1622																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1634																										
ZZZZZZ	1.0	1638																										
ZZZZZZ	1.0	1638																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1638																										
CRI	1.0	1731																								X		
CCV	1.0	1731																								X		
CCB	1.0	1731																								X		
ZZZZZZ	1.0	1731																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1739																										
ZZZZZZ	1.0	1755																										
ZZZZZZ	1.0	1759																										
ZZZZZZ	1.0	1759																										
ZZZZZZ	1.0	1809																										
ZZZZZZ	1.0	1809																										
ZZZZZZ	1.0	1809																										
CCV	1.0	1809																								X		
CCB	1.0	1809																								X		
ZZZZZZ	1.0	1809																										
ME00R4	1.0	1809																								X		
ME00R5	1.0	1809																								X		
ME00R6	1.0	1809																								X		
ME00R7	1.0	1809																								X		
ME00R8	1.0	1815																								X		
ME00R9	1.0	1815																								X		
ME00S0	1.0	1815																								X		
ME00S0D	1.0	1815																								X		
CRI	1.0	1815																								X		
CCV	1.0	1815																								X		
CCB	1.0	1815																								X		
ME00S0S	1.0	1815																								X		
ME00S1	1.0	1823																								X		
ME00S2	1.0	1830																								X		
ME00S3	1.0	1830																								X		
ME00S4	1.0	1830																								X		

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: CN Analysis Method: AS

Start Date: 10/28/2009 End Date: 10/28/2009

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00S5	1.0	1831																								X		
ME00S6	1.0	1831																								X		
ME00S7	1.0	1831																								X		
ME00S8	1.0	1831																								X		
ME00S9	1.0	1831																								X		
CCV	1.0	1831																								X		
CCB	1.0	1831																								X		
ME00T0	1.0	1831																								X		
ME00T1	1.0	1841																								X		
ME00T6	1.0	1841																								X		
ZZZZZZ	1.0	1847																										
ZZZZZZ	1.0	1847																										
ZZZZZZ	1.0	1847																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1852																										
CRI	1.0	1852																								X		
CCV	1.0	1852																								X		
CCB	1.0	1852																								X		
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1859																										
ZZZZZZ	1.0	1859																										
CRI	1.0	1903																								X		
CCV	1.0	1903																								X		
CCB	1.0	1903																								X		

FORM XIII-IN ILM05.4

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13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1022	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.0	1025	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICV	1.0	1029	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1032	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRI	1.0	1035		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1038	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1041	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1044	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1047	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1050																										
ZZZZZZ	0	1054																										
ZZZZZZ	0	1057																										
CRI	1.0	1100		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1103	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1106	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1109	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1112	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBS	1.0	1128	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSS	1.0	1131	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R4	1.0	1134	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R5	1.0	1138	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00R6	1.0	1141	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00R7	1.0	1143	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X				
ME00R8	1.0	1146	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00R9	1.0	1149	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S0	1.0	1152	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S0L	5.0	1155	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1205	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1208	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S0D	1.0	1211	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S0S	1.0	1214		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00S1	1.0	1217	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S2	1.0	1220	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				

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13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00S3	1.0	1223	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S4	1.0	1226	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1229																										
CRI	1.0	1233		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1236	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1239	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1242	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1245	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S5	1.0	1248	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S6	1.0	1251	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S7	1.0	1254	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00S8	1.0	1257	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00S9	1.0	1300	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00T0	1.0	1303	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
ME00T1	1.0	1306	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00T6	1.0	1309	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R5	2.0	1312																							X			
ZZZZZZ	0	1315																										
CCV	1.0	1321	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1324	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R7	4.0	1327											X															
ZZZZZZ	0	1330																										
ME00R8	10	1334																							X			
ZZZZZZ	0	1337																										
ME00S2	2.0	1340																							X			
ME00S3	4.0	1343																							X			
ZZZZZZ	0	1346																										
CRI	1.0	1349		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1352	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1355	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1358	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1401	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ME00R6	40	1404																							X			

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13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME00R7	100	1408																							X			
ME00R9	100	1411																							X			
ME00S5	4.0	1414																							X			
ME00S8	10	1417																							X			
ME00S9	4.0	1420																							X			
ME00T0	4.0	1423																							X			
ZZZZZZ	0	1426																										
ZZZZZZ	0	1429																										
ZZZZZZ	0	1432																										
CCV	1.0	1440	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1442	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1446																										
ZZZZZZ	0	1449																										
ZZZZZZ	0	1452																										
ZZZZZZ	0	1455																										
ZZZZZZ	0	1458																										
ZZZZZZ	0	1501																										
ZZZZZZ	0	1504																										
CRI	1.0	1507		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1511	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.0	1514	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.0	1550	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.0	1553	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	0	1556																										
ZZZZZZ	0	1600																										
ZZZZZZ	0	1603																										
ZZZZZZ	0	1606																										
ZZZZZZ	0	1609																										
ZZZZZZ	0	1612																										
ZZZZZZ	0	1615																										
ZZZZZZ	0	1618																										
ZZZZZZ	0	1621																										
ZZZZZZ	0	1625																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW08065

Lab Code: CHEM Case No.: 39143 NRAS No.: _____ SDG No.: ME00R4

Instrument ID: P5 Analysis Method: P

Start Date: 11/10/2009 End Date: 11/10/2009

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
CCV	1.0	1628	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.0	1631	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ZZZZZZ	0	1634																									
ZZZZZZ	0	1637																									
ZZZZZZ	0	1640																									
ZZZZZZ	0	1643																									
ZZZZZZ	0	1646																									
ZZZZZZ	0	1650																									
ZZZZZZ	0	1653																									
CRI	1.0	1656		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X		
ICSA	1.0	1659	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ICSAB	1.0	1702	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCV	1.0	1705	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.0	1708	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ZZZZZZ	0	1711																									
ZZZZZZ	0	1714																									
ZZZZZZ	0	1717																									
ZZZZZZ	0	1720																									
ZZZZZZ	0	1724																									
ZZZZZZ	0	1727																									
ME00S0A	1.0	1730		X				X																			
CRI	1.0	1733		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X		
ICSA	1.0	1736	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ICSAB	1.0	1739	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCV	1.0	1742	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.0	1745	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		

FORM XIII-IN ILM05.4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: MEOOR4 CERCLIS No: ILD053980454

Case No: 39143 Site Name/Location: Sandoval Zinc (IL)

Contractor or EPA Lab: ChemTech Data User: IEPA

No. of Samples: 19 Date Sampled or Date Received: 13 Nov 09

Have Chain-of-Custody records been received? Yes X No_____
Have traffic reports or packing lists been received? Yes X No _____
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No____
No of samples claimed: 19 No. of samples received:_____

Received by: [illegible] Date: 13 Nov 09

Received by LSSS: [illegible] Date: 18 Nov 09

Review started: 12-31-09 Reviewer Signature: [illegible]

Total time spent on review: 13 + 2.5 hrs Date review completed: 1-6-10

Copied by: A. C. Harvey Date: Feb 3, 2010

Mailed to user by: [illegible] Date: 8 FEB 10

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date:_____

Data review received by: _____ Date:_____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date:_____