1071953 - R8 SDMS

CSF CHAIN OF CUSTODY FORM

U.S. Environmental Protection Agency - Region 8
Environmental Services Division, Multi-Media Branch
Analytical Operations Section

Audit Number: 08/20/08

Case Number: 37093

Date CSF Received: 01/3/08

Site Name: Richardson Flats

Auditor: Paul Beard

Lab Name: CHEM

Date of Audit: 01/31/08

SDG Number: MH24R9

Date of Transfer: 6/10/08

Comments:

Transfer to: Kathryn Hernandez

Affiliation: EPA

Transfer from (AOS): RSCC

CSF Relinquished By:

Print Name	Date	Signature
Paul Beard	6/10/08	Paul Beard

CSF Received By:

Print Name	Date	Signature
SF Rec. Cent.	6/10/08	

CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

Rev. 07/05/95

CSF Relinquished By:

Print Name	Date	Signature

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CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S0

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-02

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.8	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	12.5			P
7440-39-3	Barium	92.2	J		P
7440-41-7	Beryllium	0.17	J		P
7440-43-9	Cadmium	2.2	J		P
7440-70-2	Calcium	313000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	768			P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	75900			P
7439-96-5	Manganese	4140			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	3860	J	E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	135000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	989			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-03

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.2	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	9.8	J		P
7440-39-3	Barium	93.9	J		P
7440-41-7	Beryllium	0.10	J		P
7440-43-9	Cadmium	1.4	J		P
7440-70-2	Calcium	306000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	268			P
7439-92-1	Lead	16.1			P
7439-95-4	Magnesium	73400			P
7439-96-5	Manganese	3570			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	4440	J	E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	153000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1030			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-06

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.7	J		P
7440-36-0	Antimony	11.6	J		P
7440-38-2	Arsenic	7.7	J		P
7440-39-3	Barium	95.1	J		P
7440-41-7	Beryllium	0.10	J		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	314000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	74800			P
7439-96-5	Manganese	3640			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	4520	J	E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	156000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1040			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S3

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-07

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	43.3	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	5.3	J		P
7440-39-3	Barium	149	J		P
7440-41-7	Beryllium	0.21	J		P
7440-43-9	Cadmium	6.3			P
7440-70-2	Calcium	290000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	3.4	J		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	71300			P
7439-96-5	Manganese	1060			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.9	J		P
7440-09-7	Potassium	6580		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	627000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	2670			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-08

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19.0	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	9.0	J		P
7440-39-3	Barium	151	J		P
7440-41-7	Beryllium	0.17	J		P
7440-43-9	Cadmium	6.6			P
7440-70-2	Calcium	299000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	3.0	J		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	71100			P
7439-96-5	Manganese	1090			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	6250		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	612000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	1.3	J		P
7440-66-6	Zinc	2720			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-09

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.1	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	6.9	J		P
7440-39-3	Barium	103	J		P
7440-41-7	Beryllium	0.17	J		P
7440-43-9	Cadmium	2.6	J		P
7440-70-2	Calcium	305000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	2.4	J		P
7439-89-6	Iron	141			P
7439-92-1	Lead	19.4			P
7439-95-4	Magnesium	70800			P
7439-96-5	Manganese	2950			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.4	J		P
7440-09-7	Potassium	4650	J	E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	230000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1480			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-10

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	43.2	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	8.2	J		P
7440-39-3	Barium	105	J		P
7440-41-7	Beryllium	0.17	J		P
7440-43-9	Cadmium	2.0	J		P
7440-70-2	Calcium	309000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	73800			P
7439-96-5	Manganese	3030			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	5030		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	240000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1490			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24S9

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-11

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	63.4	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	11.0			P
7440-39-3	Barium	104	J		P
7440-41-7	Beryllium	0.24	J		P
7440-43-9	Cadmium	2.6	J		P
7440-70-2	Calcium	289000			P
7440-47-3	Chromium	1.0	J		P
7440-48-4	Cobalt	1.9	J		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	46.4	J		P
7439-92-1	Lead	12.4			P
7439-95-4	Magnesium	68700			P
7439-96-5	Manganese	2530			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	5780		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	198000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1420			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24T0

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-12

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	61.3	J		P
7440-36-0	Antimony	12.0	J		P
7440-38-2	Arsenic	8.5	J		P
7440-39-3	Barium	103	J		P
7440-41-7	Beryllium	0.20	J		P
7440-43-9	Cadmium	1.7	J		P
7440-70-2	Calcium	284000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	68100			P
7439-96-5	Manganese	2480			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	5670		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	196000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1390			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24T1

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-13

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	73.4	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.7			P
7440-39-3	Barium	104	J		P
7440-41-7	Beryllium	0.20	J		P
7440-43-9	Cadmium	1.7	J		P
7440-70-2	Calcium	288000			P
7440-47-3	Chromium	1.0	J		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	2.6	J		P
7439-89-6	Iron	62.8	J		P
7439-92-1	Lead	15.0			P
7439-95-4	Magnesium	68200			P
7439-96-5	Manganese	2500			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.1	J		P
7440-09-7	Potassium	5740		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	198000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1450			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24T2

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-14

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	52.8	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	9.5	J		P
7440-39-3	Barium	101	J		P
7440-41-7	Beryllium	0.23	J		P
7440-43-9	Cadmium	2.6	J		P
7440-70-2	Calcium	282000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	66400			P
7439-96-5	Manganese	2440			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.4	J		P
7440-09-7	Potassium	5550		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	191000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1410			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24T3

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-15

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	75.4	J		P
7440-36-0	Antimony	11.5	J		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	101	J		P
7440-41-7	Beryllium	0.44	J		P
7440-43-9	Cadmium	1.7	J		P
7440-70-2	Calcium	280000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	64300			P
7439-96-5	Manganese	2410			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	5290		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	221000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1370			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24T4

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-16

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	91.0	J		P
7440-36-0	Antimony	11.9	J		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	102	J		P
7440-41-7	Beryllium	0.54	J		P
7440-43-9	Cadmium	2.3	J		P
7440-70-2	Calcium	285000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	1.9	J		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	56.2	J		P
7439-92-1	Lead	12.4			P
7439-95-4	Magnesium	65700			P
7439-96-5	Manganese	2460			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.6	J		P
7440-09-7	Potassium	5450		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	227000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1410			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24W5

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-17

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	95.5	J		P
7440-36-0	Antimony	14.1	J		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	102	J		P
7440-41-7	Beryllium	0.50	J		P
7440-43-9	Cadmium	2.3	J		P
7440-70-2	Calcium	286000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	66000			P
7439-96-5	Manganese	2470			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	4.1	J		P
7440-09-7	Potassium	5500		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	227000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1400			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MH24W6

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER Lab Sample ID: Y5799-18

Level: (low/med) LOW Date Received: 12/20/2007

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	J		P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	99.6	J		P
7440-41-7	Beryllium	0.57	J		P
7440-43-9	Cadmium	2.9	J		P
7440-70-2	Calcium	276000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	25.0	U		P
7439-89-6	Iron	37.9	J		P
7439-92-1	Lead	13.0			P
7439-95-4	Magnesium	64600			P
7439-96-5	Manganese	2390			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	5450		E	P
7782-49-2	Selenium	35.0	U		P
7440-22-4	Silver	10.0	U	N	P
7440-23-5	Sodium	222000		E	P
7440-28-0	Thallium	25.0	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	1360			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Initial Calibration Verification Source: EPA-1201

Continuing Calibration Verification Source: IVEN-MI10702

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	2482.0	2359.35	95	10000.0	9720.40	97	9747.21	97	P
Antimony	992.0	1015.51	102	5000.0	5247.55	105	5306.30	106	P
Arsenic	996.0	1025.33	103	5000.0	5360.61	107	5418.46	108	P
Barium	502.0	544.70	109	10000.0	10572.63	106	10624.12	106	P
Beryllium	493.0	480.42	97	250.0	255.01	102	258.00	103	P
Cadmium	494.0	508.13	103	2500.0	2634.53	105	2670.55	107	P
Calcium	10180.0	10074.04	99	25000.0	25880.44	104	26331.34	105	P
Chromium	490.0	501.34	102	1000.0	1040.75	104	1057.52	106	P
Cobalt	496.0	494.71	100	2500.0	2576.50	103	2604.41	104	P
Copper	490.0	472.71	96	1250.0	1223.06	98	1213.61	97	P
Iron	5107.0	4875.09	95	5000.0	5111.10	102	5182.34	104	P
Lead	996.0	1001.51	101	5000.0	5147.02	103	5229.96	105	P
Magnesium	6003.0	5867.08	98	25000.0	25127.27	101	25104.77	100	P
Manganese	495.0	507.95	103	2500.0	2618.09	105	2644.01	106	P
Mercury									NR
Nickel	492.0	493.45	100	2500.0	2585.09	103	2616.43	105	P
Potassium	10008.0	9764.32	98	25000.0	26937.44	108	24323.44	97	P
Selenium	1005.0	1045.37	104	5000.0	5382.08	108	4957.55	99	P
Silver	495.0	495.02	100	1250.0	1281.83	103	1302.95	104	P
Sodium	10039.0	9236.80	92	25000.0	25787.81	103	25316.46	101	P
Thallium	1027.0	979.99	95	5000.0	5085.42	102	5108.21	102	P
Vanadium	501.0	505.63	101	2500.0	2595.67	104	2648.37	106	P
Zinc	1000.0	1003.93	100	2500.0	2575.90	103	2567.69	103	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: IVEN-MI10702

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9631.11	96	9274.67	93	P
Antimony				5000.0	5376.30	108	5269.14	105	P
Arsenic				5000.0	5216.59	104	5395.71	108	P
Barium				10000.0	10615.60	106	10386.35	104	P
Beryllium				250.0	261.72	105	258.96	104	P
Cadmium				2500.0	2724.60	109	2660.56	106	P
Calcium				25000.0	26542.56	106	25524.47	102	P
Chromium				1000.0	1062.20	106	1017.53	102	P
Cobalt				2500.0	2628.93	105	2548.79	102	P
Copper				1250.0	1186.14	95	1142.45	91	P
Iron				5000.0	5290.60	106	5108.93	102	P
Lead				5000.0	5270.35	105	5086.11	102	P
Magnesium				25000.0	24664.48	99	23776.84	95	P
Manganese				2500.0	2649.62	106	2548.79	102	P
Mercury									NR
Nickel				2500.0	2651.63	106	2596.91	104	P
Potassium				25000.0	24131.45	97	23374.06	93	P
Selenium				5000.0	5054.60	101	5453.08	109	P
Silver				1250.0	1317.07	105	1286.82	103	P
Sodium				25000.0	24869.75	99	23778.44	95	P
Thallium				5000.0	5141.22	103	5041.63	101	P
Vanadium				2500.0	2724.91	109	2694.94	108	P
Zinc				2500.0	2561.57	102	2427.62	97	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2A-IN
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: IVEN-MI10702

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9597.81	96			P
Antimony				5000.0	5115.45	102			P
Arsenic				5000.0	5171.10	103			P
Barium				10000.0	10435.72	104			P
Beryllium				250.0	248.87	100			P
Cadmium				2500.0	2540.06	102			P
Calcium				25000.0	24775.79	99			P
Chromium				1000.0	1000.29	100			P
Cobalt				2500.0	2495.08	100			P
Copper				1250.0	1211.43	97			P
Iron				5000.0	4982.90	100			P
Lead				5000.0	5016.62	100			P
Magnesium				25000.0	24608.90	98			P
Manganese				2500.0	2515.51	101			P
Mercury									NR
Nickel				2500.0	2515.13	101			P
Potassium				25000.0	24039.04	96			P
Selenium				5000.0	5191.95	104			P
Silver				1250.0	1250.44	100			P
Sodium				25000.0	25597.32	102			P
Thallium				5000.0	4964.45	99			P
Vanadium				2500.0	2509.19	100			P
Zinc				2500.0	2454.52	98			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA - CLP

2B-IN
CRQL CHECK STANDARD

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

CRQL Check Standard Source: IVEN-MI10699

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	60.0	69.72	116	68.26	114
Arsenic	10.0	8.77 J	88	11.52	115
Barium					
Beryllium	5.0	5.63	113	5.87	117
Cadmium	5.0	5.43	109	5.71	114
Calcium					
Chromium	10.0	11.07	111	11.74	117
Cobalt	50.0	51.59	103	53.28	107
Copper	25.0	24.78 J	99	23.73 J	95
Iron					
Lead	10.0	5.77 J	58	13.36	134
Magnesium					
Manganese	15.0	16.06	107	16.30	109
Mercury					
Nickel	40.0	42.67	107	45.56	114
Potassium					
Selenium	35.0	41.19	118	42.50	121
Silver	10.0	10.59	106	10.78	108
Sodium					
Thallium	25.0	23.57 J	94	26.54	106
Vanadium	50.0	54.53	109	55.08	110
Zinc	60.0	65.98	110	67.33	112
Cyanide					

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150.
ICP-MS - Cobalt, Manganese, and Zinc: 50-150.

* If applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury).

USEPA - CLP

2B-IN
CRQL CHECK STANDARD

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

CRQL Check Standard Source: IVEN-MI10699

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R(1)	Found*	%R(1)
Aluminum					
Antimony	60.0			63.04	105
Arsenic	10.0			8.84 J	88
Barium					
Beryllium	5.0			5.25	105
Cadmium	5.0			5.38	108
Calcium					
Chromium	10.0			11.28	113
Cobalt	50.0			50.31	101
Copper	25.0			23.93 J	96
Iron					
Lead	10.0			8.18 J	82
Magnesium					
Manganese	15.0			15.59	104
Mercury					
Nickel	40.0			40.65	102
Potassium					
Selenium	35.0			39.80	114
Silver	10.0			9.72 J	97
Sodium					
Thallium	25.0			22.20 J	89
Vanadium	50.0			51.31	103
Zinc	60.0			58.99 J	98
Cyanide					

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150.
ICP-MS - Cobalt, Manganese, and Zinc: 50-150.

* If applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury).

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Preparation Blank Matrix (soil/water): WATER

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

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	74.340	J	200.000	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	60.000	U	P
Arsenic	10.000	U	10.000	U	8.580	J	8.445	J	10.000	U	P
Barium	200.000	U	0.450	J	2.160	J	1.745	J	-0.670	J	P
Beryllium	0.135	J	0.170	J	0.165	J	0.370	J	0.065	J	P
Cadmium	5.000	U	5.000	U	1.145	J	5.000	U	5.000	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Chromium	2.015	J	10.000	U	1.010	J	1.680	J	-1.680	J	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	50.000	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	25.000	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	100.000	U	P
Lead	10.000	U	10.000	U	-3.400	J	-4.040	J	-3.780	J	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Manganese	15.000	U	-0.460	J	0.460	J	15.000	U	15.000	U	P
Mercury											NR
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	40.000	U	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5000.000	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	35.000	U	P
Silver	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Sodium	-430.900	J	-489.705	J	-567.685	J	-408.310	J	-717.245	J	P
Thallium	25.000	U	25.000	U	8.055	J	9.475	J	25.000	U	P
Vanadium	50.000	U	50.000	U	2.220	J	50.000	U	50.000	U	P
Zinc	60.000	U	60.000	U	2.720	J	-2.040	J	2.725	J	P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

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			111.015	J	200.000	U					P
Antimony			60.000	U	60.000	U					P
Arsenic			10.000	U	10.000	U					P
Barium			0.930	J	1.350	J					P
Beryllium			0.700	J	0.260	J					P
Cadmium			5.000	U	5.000	U					P
Calcium			5000.000	U	5000.000	U					P
Chromium			0.670	J	1.000	J					P
Cobalt			50.000	U	50.000	U					P
Copper			-0.965	J	25.000	U					P
Iron			100.000	U	100.000	U					P
Lead			10.000	U	-2.060	J					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	5000.000	U					P
Selenium			35.000	U	35.000	U					P
Silver			10.000	U	10.000	U					P
Sodium			-362.755	J	308.350	J					P
Thallium			25.000	U	25.000	U					P
Vanadium			50.000	U	50.000	U					P
Zinc			2.720	J	-2.810	J					P
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

ICP-AES Instrument ID: P2 ICS Source: EPA0503-0203

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	248000	247000	101	241000	97	240000	98	238000	96
Antimony	0	585	-3.1		614	105	4.4		622	106
Arsenic	0	97.0	0.43		112	115	5.0		111	114
Barium	2.0	475	2.0	100	547	115	1.8	90	546	115
Beryllium	0	482	0.50		463	96	0.97		472	98
Cadmium	0	916	1.7		1010	110	0.93		1040	114
Calcium	234000	234000	255000	109	251000	107	258000	110	256000	109
Chromium	36.0	506	42.7	119	539	107	42.0	117	547	108
Cobalt	3.0	455	1.5	50	504	111	3.0	100	510	112
Copper	15.0	537	19.4	129	559	104	17.9	119	543	101
Iron	94900	95100	102000	107	100000	105	103000	109	102000	107
Lead	5.0	51.0	1.3	26	53.2	104	0.32	6	54.3	106
Magnesium	249000	254000	264000	106	258000	102	256000	103	254000	100
Manganese	19.0	483	18.2	96	534	111	21.2	112	540	112
Nickel	10.0	930	13.5	135	1060	114	13.7	137	1080	116
Potassium	0	0	14.1		39.1		22.6		37.3	
Selenium	0	51.0	2.1		52.1	102	4.0		54.3	106
Silver	0	210	4.2		223	106	4.6		227	108
Sodium	0	0	921		656		342		402	
Thallium	0	96.0	-3.3		97.5	102	-3.1		104	108
Vanadium	1.0	481	-2.5	-250	503	105	-2.3	-230	522	109
Zinc	39.0	975	48.9	125	1090	112	48.9	125	1080	111

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

ICP-AES Instrument ID: P2 ICS Source: EPA0503-0203

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	248000					245000	100	240000	97
Antimony	0	585					-0.71		594	102
Arsenic	0	97.0					-5.1		97.6	101
Barium	2.0	475					3.6	180	540	114
Beryllium	0	482					0.61		445	92
Cadmium	0	916					-0.53		967	106
Calcium	234000	234000					244000	104	239000	102
Chromium	36.0	506					40.2	112	519	103
Cobalt	3.0	455					2.5	83	484	106
Copper	15.0	537					18.8	125	556	104
Iron	94900	95100					98800	104	97000	102
Lead	5.0	51.0					-0.34	-7	55.2	108
Magnesium	249000	254000					260000	104	255000	100
Manganese	19.0	483					22.5	118	516	107
Nickel	10.0	930					12.5	125	1020	110
Potassium	0	0					22.5		42.8	
Selenium	0	51.0					0.65		51.4	101
Silver	0	210					3.9		217	103
Sodium	0	0					1130		1210	
Thallium	0	96.0					1.1		97.5	102
Vanadium	1.0	481					-1.8	-180	488	101
Zinc	39.0	975					45.6	117	1030	106

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MH24S1S

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2363.9800		23.1850	J	2000.00	117		P
Antimony	75-125	119.1900		60.0000	U	100.00	119		P
Arsenic	75-125	57.3100		9.8300	J	40.00	119		P
Barium	75-125	2491.7550		93.9050	J	2000.00	120		P
Beryllium	75-125	52.8450		0.1000	J	50.00	105		P
Cadmium	75-125	56.4300		1.3850	J	50.00	110		P
Calcium									NR
Chromium	75-125	218.8250		10.0000	U	200.00	109		P
Cobalt	75-125	552.4250		50.0000	U	500.00	110		P
Copper	75-125	290.9400		25.0000	U	250.00	116		P
Iron	75-125	1377.1450		268.1900		1000.00	111		P
Lead	75-125	38.2950		16.1150		20.00	111		P
Magnesium									NR
Manganese		4038.1800		3567.0250		500.00	94		P
Mercury									NR
Nickel	75-125	556.6000		40.0000	U	500.00	111		P
Potassium									NR
Selenium	75-125	55.8250		35.0000	U	50.00	112		P
Silver	75-125	34.5050		10.0000	U	50.00	69	N	P
Sodium									NR
Thallium	75-125	54.5700		25.0000	U	50.00	109		P
Vanadium	75-125	545.9350		50.0000	U	500.00	109		P
Zinc	75-125	1561.6950		1034.1550		500.00	106		P
Cyanide									NR

Comments:

USEPA - CLP

5B-IN
POST-DIGESTION SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MH24S1A

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

Matrix: (soil/water) WATER 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									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.

MH24S1D

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

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

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		23.1850	J	25.7150	J	10		P
Antimony		60.0000	U	60.0000	U			P
Arsenic		9.8300	J	6.6750	J	38		P
Barium		93.9050	J	94.0500	J	0		P
Beryllium		0.1000	J	0.1350	J	30		P
Cadmium		1.3850	J	1.3850	J	0		P
Calcium		306261.5700		306758.7450		0		P
Chromium		10.0000	U	10.0000	U			P
Cobalt		50.0000	U	50.0000	U			P
Copper		25.0000	U	2.2300	J	200		P
Iron	100.0	268.1900		283.0150		5		P
Lead	10.0	16.1150		16.6200		3		P
Magnesium		73364.8300		73566.6550		0		P
Manganese		3567.0250		3573.2650		0		P
Mercury								NR
Nickel		40.0000	U	40.0000	U			P
Potassium		4440.5250	J	4446.9500	J	0		P
Selenium		35.0000	U	35.0000	U			P
Silver		10.0000	U	10.0000	U			P
Sodium		153277.2800		153815.2450		0		P
Thallium		25.0000	U	25.0000	U			P
Vanadium		50.0000	U	50.0000	U			P
Zinc		1034.1550		1024.6300		1		P
Cyanide								NR

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Solid LCS Source: _____

Aqueous LCS Source: EPA-ICV -1201

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits		%R
Aluminum	2482.0	2387.02	96						
Antimony	992.0	1032.76	104						
Arsenic	996.0	1057.24	106						
Barium	502.0	549.66	109						
Beryllium	493.0	493.45	100						
Cadmium	494.0	519.56	105						
Calcium	10180.0	10301.87	101						
Chromium	490.0	509.73	104						
Cobalt	496.0	504.65	102						
Copper	490.0	470.11	96						
Iron	5107.0	4936.91	97						
Lead	996.0	1014.55	102						
Magnesium	6003.0	5869.01	98						
Manganese	495.0	516.76	104						
Mercury									
Nickel	492.0	503.81	102						
Potassium	10008.0	9779.06	98						
Selenium	1005.0	1073.06	107						
Silver	495.0	500.74	101						
Sodium	10039.0	9023.77	90						
Thallium	1027.0	998.91	97						
Vanadium	501.0	518.38	103						
Zinc	1000.0	1018.21	102						
Cyanide									

USEPA - CLP

8-IN
ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MH24S1L

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	23.19	L	181.15	L	681		P
Antimony	60.00	U	300.00	U			P
Arsenic	9.83	J	50.00	U	100		P
Barium	93.91	J	97.50	J	4		P
Beryllium	0.10	J	0.85	J	750		P
Cadmium	1.39	J	4.28	J	208		P
Calcium	306261.57		327708.95		7		P
Chromium	10.00	U	50.00	U			P
Cobalt	50.00	U	250.00	U			P
Copper	25.00	U	125.00	U			P
Iron	268.19		213.53	J	20		P
Lead	16.12		50.00	U	100		P
Magnesium	73364.83		76324.08		4		P
Manganese	3567.03		3893.75		9		P
Nickel	40.00	U	200.00	U			P
Potassium	4440.53	J	3432.30	J	23	E	P
Selenium	35.00	U	175.00	U			P
Silver	10.00	U	50.00	U			P
Sodium	153277.28		118283.55		23	E	P
Thallium	25.00	U	125.00	U			P
Vanadium	50.00	U	250.00	U			P
Zinc	1034.16		1078.38		4		P

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Instrument Type: P Instrument ID: P2 Date: 01/15/2007

Preparation Method: HW1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	200	7.9
Antimony	206.80	60	11.4
Arsenic	189.00	10	4.7
Barium	493.40	200	0.23
Beryllium	313.00	5	0.034
Cadmium	226.50	5	0.75
Calcium	317.90	5000	15.7
Chromium	267.70	10	1.0
Cobalt	228.60	50	1.9
Copper	324.70	25	2.1
Iron	271.40	100	15.8
Lead	220.40	10	3.5
Magnesium	279.00	5000	14.0
Manganese	257.60	15	0.59
Mercury		0.2	
Nickel	231.60	40	2.2
Potassium	766.50	5000	24.5
Selenium	196.00	35	7.0
Silver	328.00	10	1.6
Sodium	330.20	5000	577
Thallium	190.90	25	11.1
Vanadium	292.40	50	1.1
Zinc	206.20	60	1.7
Cyanide		10	

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Instrument Type: P Instrument ID: P2 Date: 01/15/2007

Preparation Method: NP1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.20	200	27.8
Antimony	206.80	60	8.4
Arsenic	189.00	10	4.8
Barium	493.40	200	0.39
Beryllium	313.00	5	0.075
Cadmium	226.50	5	0.65
Calcium	317.90	5000	33.7
Chromium	267.70	10	0.51
Cobalt	228.60	50	1.4
Copper	324.70	25	0.71
Iron	271.40	100	21.3
Lead	220.40	10	1.8
Magnesium	279.00	5000	27.4
Manganese	257.60	15	0.29
Mercury		0.2	
Nickel	231.60	40	2.7
Potassium	766.50	5000	19.6
Selenium	196.00	35	4.0
Silver	328.00	10	0.73
Sodium	330.20	5000	304
Thallium	190.90	25	6.5
Vanadium	292.40	50	2.2
Zinc	206.20	60	1.5
Cyanide		10	

Comments:

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

ICP-AES Instrument ID: P2 Date: 10/01/2007

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.20	0.0000000	0.0000000	0.0006155	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	-0.0002796	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000757	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	-0.0000173	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	-0.0000742	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000000	-0.0005468	-0.0005468	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	-0.0003599	0.0000289	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0002804	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0013296	0.0000000
Thallium	190.90	0.0000000	0.0000000	-0.0001561	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0001323	-0.0000477	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: SDG No.: MH24R9

ICP-AES Instrument ID: P2 Date: 10/01/2007

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0026150
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0003663
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0002176
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0001655
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0026709
Cobalt	228.60	0.0000000	0.0004455	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0003125
Iron	271.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0615750
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0003119
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0006074
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0000000	0.0172846	0.0000000	0.0000000	0.0219408
Thallium	190.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0060495
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0011060	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

ICP-AES Instrument ID: P2 Date: 10/01/2007

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Na	Ni
Aluminum	308.20	0.0013007	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0051209	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0001648	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0006927
Cobalt	228.60	0.0000000	0.0003458	0.0000000	0.0000000	0.0004328
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0029873	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0002023	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.20	0.0299855	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.90	0.0006679	0.0000000	0.0007687	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0020960	0.0000000	0.0000000	0.0000000	0.0007358

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

ICP-AES Instrument ID: P2 Date: 10/01/2007

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Pb	Sb	Se	Tl	V
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0366042
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0006816
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0010176
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0100693
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	-0.0005797
Sodium	330.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0699748
Thallium	190.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0020039
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

ICP-AES Instrument ID: P2 Date: 10/01/2007

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn	—	—	—	—
Aluminum	308.20	0.0000000				
Antimony	206.80	0.0000000				
Arsenic	189.00	0.0000000				
Barium	493.40	0.0000000				
Beryllium	313.00	0.0000000				
Cadmium	226.50	0.0000000				
Calcium	317.90	0.0000000				
Chromium	267.70	0.0000000				
Cobalt	228.60	0.0000000				
Copper	324.70	0.0000000				
Iron	271.40	0.0000000				
Lead	220.40	0.0000000				
Magnesium	279.00	0.0000000				
Manganese	257.60	0.0000000				
Nickel	231.60	0.0008624				
Potassium	766.50	0.0000000				
Selenium	196.00	0.0000000				
Silver	328.00	0.0000000				
Sodium	330.20	0.1000452				
Thallium	190.90	0.0000000				
Vanadium	292.40	0.0000000				
Zinc	206.20	0.0000000				

Comments:

USEPA - CLP

11-IN
ICP-AES and ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

ICP Instrument ID: P2 Date: 10/01/2007

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	5.00	650000.0	P
Antimony	5.00	50000.0	P
Arsenic	5.00	90000.0	P
Barium	5.00	200000.0	P
Beryllium	5.00	22000.0	P
Cadmium	5.00	50000.0	P
Calcium	5.00	600000.0	P
Chromium	5.00	50000.0	P
Cobalt	5.00	55000.0	P
Copper	5.00	80000.0	P
Iron	5.00	1150000.0	P
Lead	5.00	110000.0	P
Magnesium	5.00	1100000.0	P
Manganese	5.00	45000.0	P
Nickel	5.00	55000.0	P
Potassium	5.00	190000.0	P
Selenium	5.00	45000.0	P
Silver	5.00	100000.0	P
Sodium	5.00	1200000.0	P
Thallium	5.00	55000.0	P
Vanadium	5.00	60000.0	P
Zinc	5.00	80000.0	P

Comments:

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12-IN
PREPARATION LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 -NRAS No.: _____ SDG No.: MH24R9

Preparation Method: HW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	12/27/2007		50
MH24R9	12/27/2007		50
MH24S0	12/27/2007		50
MH24S1	12/27/2007		50
MH24S1D	12/27/2007		50
MH24S1S	12/27/2007		50
MH24S2	12/27/2007		50
MH24S3	12/27/2007		50
MH24S4	12/27/2007		50
MH24S5	12/27/2007		50
MH24S6	12/27/2007		50
MH24S9	12/27/2007		50
MH24T0	12/27/2007		50
MH24T1	12/27/2007		50
MH24T2	12/27/2007		50
MH24T3	12/27/2007		50
MH24T4	12/27/2007		50
MH24W5	12/27/2007		50
MH24W6	12/27/2007		50
PBW	12/27/2007		50

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13-IN
ANALYSIS RUN LOG

Lab Name CHEMTECH CONSULTING GROUP Contract: EPW06047

Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Instrument ID: P2 Analysis Method: P

Start Date: 12/31/2007 End Date: 12/31/2007

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	0647	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	0650	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	0659	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	0701	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	0706		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	0713	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	0715	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	0716	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	0718	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW	1.0	0720	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCSW	1.0	0722	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24R9	1.0	0724	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S0	1.0	0726	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S1	1.0	0728	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S1D	1.0	0731	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S1L	5.0	0733	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S1S	1.0	0735	X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
MH24S2	1.0	0737	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S3	1.0	0739	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	0745	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	0747	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S4	1.0	0749	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S5	1.0	0751	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S6	1.0	0753	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24S9	1.0	0755	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24T0	1.0	0757	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24T1	1.0	0759	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24T2	1.0	0801	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	0807		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	0813	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	0815	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	0822	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	0825	X	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: EPW06047

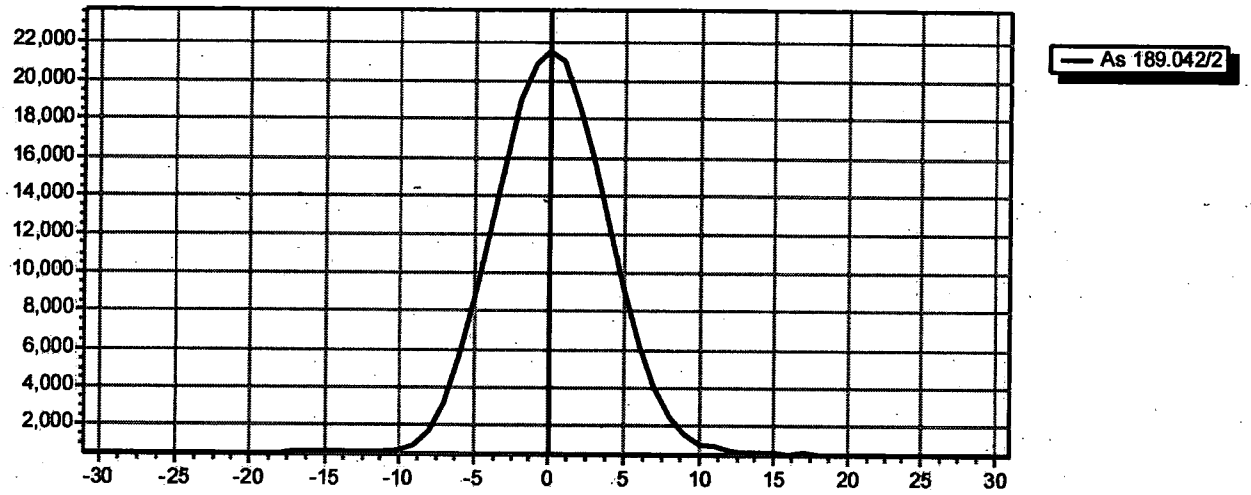
Lab Code: CHEM Case No.: 37093 NRAS No.: _____ SDG No.: MH24R9

Instrument ID: P2 Analysis Method: P

Start Date: 12/31/2007 End Date: 12/31/2007

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		
MH24T3	1.0	0827	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24T4	1.0	0829	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24W5	1.0	0831	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH24W6	1.0	0833	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	0835																										
ZZZZZZ	1.0	0837																										
ZZZZZZ	1.0	0839																										
ZZZZZZ	1.0	0841																										
ZZZZZZ	1.0	0843																										
ZZZZZZ	1.0	0846																										
CCV	1.0	0853	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	0855	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	0857																										
ZZZZZZ	1.0	0859																										
ZZZZZZ	1.0	0901																										
ZZZZZZ	1.0	0903																										
ZZZZZZ	1.0	0905																										
ZZZZZZ	1.0	0907																										
ZZZZZZ	1.0	0910																										
CRI	1.0	0923		X	X		X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	0924	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	0927	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	0929	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	0931	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

Automatic profile 12/31/2007 6:44:01 AM



New position	0.009
Vernier position	-3558.8
Average	0.009

Analyte	Peak position	Peak counts	Signal/background
As 189.042/2	0.0	21550.714	41.206

Method : ILMO53. File : P2123107 Printed : 12/31/2007 6:50:09 AM
SampleId1 : S0 SampleId2 : S0 [STD]
Analysis commenced : 12/31/2007 6:47:35 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Raw intensities

	As1890 Reading	Tl1908 Reading	Pb2203 Reading	Se1960 Reading	Sb2068 Reading	Al3082 Reading	Ba4934 Reading	Be3130 Reading	Cd2265 Reading
#1	317.300	237.800	0.900	0.800	84.000	158.900	11.800	8.000	5.600
#2	319.700	232.000	0.900	0.800	84.100	159.000	11.800	7.900	5.600
Mean	318.500	234.900	0.900	0.800	84.050	158.950	11.800	7.950	5.600
SD	1.697	4.101	0.000	0.000	0.071	0.071	0.000	0.071	0.000
%RSD	0.533	1.746	0.000	0.000	0.084	0.044	0.000	0.889	0.000

	Ca3179 Reading	Cr2677 Reading	Co2286 Reading	Cu3247 Reading	Fe2714 Reading	Mn2576 Reading	Mg2790 Reading	Ni2316 Reading	Ag3280 Reading
#1	7.000	14.100	25.500	12.200	51.000	3.400	25.400	16.000	18.900
#2	7.000	14.200	25.600	12.300	51.400	3.400	25.400	16.100	18.800
Mean	7.000	14.150	25.550	12.250	51.200	3.400	25.400	16.050	18.850
SD	0.000	0.071	0.071	0.071	0.283	0.000	0.000	0.071	0.071
%RSD	0.000	0.500	0.277	0.577	0.552	0.000	0.000	0.441	0.375

	Na3302 Reading	V_2924 Reading	Zn2062 Reading	K_7664 Reading	z1960 Reading	z1961 Reading	z2203 Reading	z2204 Reading
#1	429.000	6.400	10.900	110.800	777.600	443.800	1400.700	522.800
#2	431.700	6.400	10.900	110.900	776.700	437.700	1395.200	517.600
Mean	430.350	6.400	10.900	110.850	777.150	440.750	1397.950	520.200
SD	1.909	0.000	0.000	0.071	0.636	4.313	3.889	3.677
%RSD	0.444	0.000	0.000	0.064	0.082	0.979	0.278	0.707

Method : ILMO53. File : P2123107 Printed : 12/31/2007 6:56:39 AM
SampleId1 : S SampleId2 : S [STD]
Analysis commenced : 12/31/2007 6:50:33 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Raw intensities

	As1890 Reading	Tl1908 Reading	Pb2203 Reading	Se1960 Reading	Sb2068 Reading	Al3082 Reading	Ba4934 Reading	Be3130 Reading	Cd2265 Reading
#1	14274.300	8882.500	1.000	0.800	3893.700	2172.400	26947.600	755.900	881.700
#2	14346.900	8890.900	1.000	0.800	3903.900	2176.500	26982.300	758.700	883.100
Mean	14310.600	8886.700	1.000	0.800	3898.800	2174.450	26964.950	757.300	882.400
SD	51.336	5.940	0.000	0.000	7.212	2.899	24.537	1.980	0.990
%RSD	0.359	0.067	0.000	0.000	0.185	0.133	0.091	0.261	0.112

	Ca3179 Reading	Cr2677 Reading	Co2286 Reading	Cu3247 Reading	Fe2714 Reading	Mn2576 Reading	Mg2790 Reading	Ni2316 Reading	Ag3280 Reading
#1	2116.200	316.700	1212.500	1314.100	484.900	1087.000	3984.400	1058.100	1341.300
#2	2120.200	318.400	1216.800	1315.600	485.900	1089.300	3996.600	1057.800	1346.600
Mean	2118.200	317.550	1214.650	1314.850	485.400	1088.150	3990.500	1057.950	1343.950
SD	2.828	1.202	3.041	1.061	0.707	1.626	8.627	0.212	3.748
%RSD	0.134	0.379	0.250	0.081	0.146	0.149	0.216	0.020	0.279

	Na3302 Reading	V_2924 Reading	Zn2062 Reading	K_7664 Reading	z1960 Reading	z1961 Reading	z2203 Reading	z2204 Reading
#1	2179.600	594.000	380.500	9886.800	18731.800	18461.200	22590.600	13796.800
#2	2177.000	595.400	381.400	9891.600	18734.600	18476.500	22622.600	13964.300
Mean	2178.300	594.700	380.950	9889.200	18733.200	18468.850	22606.600	13880.550
SD	1.838	0.990	0.636	3.394	1.980	10.819	22.627	118.440
%RSD	0.084	0.166	0.167	0.034	0.011	0.059	0.100	0.853

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:01:08 AM
SampleId1 : ICV SampleId2 : ICV [FLEXQC]
Analysis commenced : 12/31/2007 6:59:35 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	1.00688	0.96953	0.99743	1.04503	1.00681	2.33586	0.54038	0.47794	0.50841
#2	1.04378	0.99044	1.00559	1.04570	1.02421	2.38283	0.54901	0.48289	0.50784
Mean	1.02533	0.97998	1.00151	1.04536	1.01551	2.35935	0.54469	0.48041	0.50813
SD	0.02609	0.01479	0.00577	0.00047	0.01230	0.03321	0.00610	0.00350	0.00040
%RSD	2.54430	1.50903	0.57630	0.04508	1.21162	1.40754	1.12051	0.72824	0.07956

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	10.07404	0.50066	0.49281	0.46866	4.87628	0.50726	5.82980	0.49200	0.49492
#2	10.07404	0.50201	0.49661	0.47675	4.87389	0.50864	5.90436	0.49489	0.49511
Mean	10.07404	0.50133	0.49471	0.47270	4.87509	0.50795	5.86708	0.49344	0.49502
SD	0.00000	0.00095	0.00269	0.00573	0.00168	0.00098	0.05272	0.00205	0.00014
%RSD	0.00000	0.18918	0.54397	1.21155	0.03456	0.19260	0.89860	0.41452	0.02758

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	9.38606	0.50229	1.00461	9.65123	1.03562	1.05053	0.97580	1.00823
#2	9.08753	0.50896	1.00325	9.87740	1.03260	1.05304	0.97331	1.02171
Mean	9.23680	0.50562	1.00393	9.76431	1.03411	1.05179	0.97455	1.01497
SD	0.21109	0.00471	0.00096	0.15992	0.00214	0.00178	0.00176	0.00953
%RSD	2.28531	0.93146	0.09602	1.63782	0.20686	0.16886	0.18069	0.93918

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:03:00 AM
SampleId1 : ICB SampleId2 : ICB [FLEXQC]
Analysis commenced : 12/31/2007 7:01:29 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00323	-0.00184	0.00075	0.00314	0.00487	0.00649	-0.00015	0.00017	0.00000
#2	0.00337	-0.00134	-0.00336	-0.00180	0.00408	0.00552	-0.00015	0.00010	0.00000
Mean	0.00330	-0.00159	-0.00130	0.00067	0.00448	0.00601	-0.00015	0.00013	0.00000
SD	0.00010	0.00035	0.00291	0.00349	0.00056	0.00068	0.00000	0.00005	0.00000
%RSD	3.07438	22.17289	223.11884	522.28935	12.53460	11.37223	0.00000	35.19196	977.39852

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00237	0.00168	-0.00021	0.00010	-0.00973	0.00000	-0.00643	-0.00072	0.00028
#2	0.00475	0.00235	-0.00190	0.00029	0.00727	0.00000	-0.00514	-0.00024	0.00029
Mean	0.00356	0.00202	-0.00106	0.00019	-0.00123	0.00000	-0.00578	-0.00048	0.00028
SD	0.00168	0.00048	0.00120	0.00014	0.01202	0.00001	0.00091	0.00034	0.00000
%RSD	47.14045	23.58615	113.16643	70.91131	977.39943	1453.83545	15.71348	70.71068	0.77335

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.55803	0.00111	0.00000	0.00334	-0.00008	0.00475	0.00164	0.00031
#2	-0.30377	0.00000	0.00136	0.00334	-0.00070	-0.00234	0.00545	-0.00776
Mean	-0.43090	0.00055	0.00068	0.00334	-0.00039	0.00120	0.00355	-0.00373
SD	0.17979	0.00079	0.00096	0.00000	0.00044	0.00501	0.00269	0.00571
%RSD	41.72446	141.67781	142.09957	0.00000	111.11789	417.57191	75.92737	153.15293

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:08:53 AM
SampleId1 : CRI SampleId2 : CRI [FLEXQC]
Analysis commenced : 12/31/2007 7:06:51 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00766	0.02463	0.00649	0.04010	0.07104	0.23861	0.23126	0.00563	0.00571
#2	0.00987	0.02251	0.00504	0.04228	0.06839	0.23861	0.23119	0.00563	0.00514
Mean	0.00876	0.02357	0.00576	0.04119	0.06971	0.23861	0.23122	0.00563	0.00542
SD	0.00157	0.00150	0.00103	0.00154	0.00187	0.00000	0.00005	0.00000	0.00040
%RSD	17.89406	6.36432	17.79934	3.73689	2.68003	0.00001	0.02275	0.00000	7.46465

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	5.19246	0.01039	0.05095	0.02478	0.07852	0.01606	4.99807	0.04122	0.01040
#2	5.19958	0.01174	0.05222	0.02478	0.08093	0.01606	4.99036	0.04411	0.01078
Mean	5.19602	0.01107	0.05159	0.02478	0.07972	0.01606	4.99422	0.04267	0.01059
SD	0.00503	0.00095	0.00090	0.00000	0.00171	0.00000	0.00545	0.00205	0.00027
%RSD	0.09689	8.58577	1.73790	0.00021	2.14220	0.00573	0.10921	4.79394	2.54007

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	3.73011	0.05453	0.06666	4.10873	0.05098	0.03469	0.01556	0.00196
#2	3.52350	0.05453	0.06529	4.08766	0.04689	0.03999	0.00618	0.00447
Mean	3.62681	0.05453	0.06597	4.09820	0.04893	0.03734	0.01087	0.00321
SD	0.14610	0.00000	0.00096	0.01490	0.00289	0.00375	0.00663	0.00177
%RSD	4.02828	0.00069	1.46121	0.36362	5.90753	10.04911	61.05100	55.21940

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:14:44 AM
SampleId1 : ICSA SampleId2 : ICSA [FLEXQC]
Analysis commenced : 12/31/2007 7:13:13 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-0.00108	0.00120	0.00099	-0.00067	-0.00273	247.29046	0.00208	0.00050	0.00135
#2	0.00194	-0.00781	0.00160	0.00490	-0.00352	247.06959	0.00201	0.00050	0.00196
Mean	0.00043	-0.00330	0.00129	0.00212	-0.00312	247.18002	0.00205	0.00050	0.00166
SD	0.00213	0.00637	0.00043	0.00393	0.00056	0.15618	0.00005	0.00000	0.00043
%RSD	494.97475	193.05591	33.44960	185.89818	17.89016	0.06318	2.57130	0.05652	26.13042

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	255.53894	0.04333	0.00105	0.01937	102.51834	0.01797	263.97866	0.01374	0.00435
#2	255.30875	0.04199	0.00190	0.01936	102.29975	0.01834	263.93752	0.01326	0.00412
Mean	255.42385	0.04266	0.00148	0.01937	102.40905	0.01815	263.95809	0.01350	0.00423
SD	0.16277	0.00095	0.00060	0.00000	0.15457	0.00026	0.02909	0.00034	0.00016
%RSD	0.06373	2.22643	40.54356	0.02394	0.15093	1.43101	0.01102	2.52538	3.86966

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	1.07334	-0.00197	0.04890	0.01311	-0.00497	0.00155	-0.03592	0.01941
#2	0.76801	-0.00305	0.04891	0.01516	0.00007	0.00737	-0.02507	0.01491
Mean	0.92067	-0.00251	0.04890	0.01414	-0.00245	0.00446	-0.03049	0.01716
SD	0.21590	0.00077	0.00000	0.00145	0.00356	0.00412	0.00767	0.00318
%RSD	23.44995	30.57056	0.00375	10.28519	145.45510	92.21345	25.15861	18.54527

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:16:34 AM
SampleId1 : ICSAB SampleId2 : ICSAB [FLEXQC]
Analysis commenced : 12/31/2007 7:15:00 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.11226	0.09448	0.05336	0.05366	0.61061	241.26846	0.54690	0.46282	1.01099
#2	0.11147	0.10042	0.05298	0.05061	0.61695	241.47933	0.54727	0.46316	1.00984
Mean	0.11186	0.09745	0.05317	0.05214	0.61378	241.37390	0.54709	0.46299	1.01042
SD	0.00056	0.00420	0.00027	0.00216	0.00448	0.14910	0.00026	0.00024	0.00081
%RSD	0.49908	4.31201	0.50477	4.14070	0.72981	0.06177	0.04809	0.05108	0.08048

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	250.96825	0.53963	0.50318	0.55887	100.19200	0.53353	257.65137	1.05944	0.22242
#2	251.07267	0.53829	0.50445	0.56003	100.20956	0.53352	258.11415	1.06860	0.22299
Mean	251.02046	0.53896	0.50382	0.55945	100.20078	0.53353	257.88276	1.06402	0.22270
SD	0.07384	0.00095	0.00090	0.00082	0.01242	0.00000	0.32724	0.00648	0.00040
%RSD	0.02941	0.17628	0.17764	0.14631	0.01239	0.00088	0.12689	0.60875	0.18109

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.61959	0.50297	1.09026	0.04086	0.05332	0.05470	0.01084	0.07459
#2	0.69289	0.50299	1.08754	0.03727	0.04828	0.05263	0.01021	0.07434
Mean	0.65624	0.50298	1.08890	0.03906	0.05080	0.05366	0.01052	0.07447
SD	0.05183	0.00001	0.00192	0.00254	0.00356	0.00146	0.00045	0.00018
%RSD	7.89878	0.00186	0.17656	6.51283	7.01522	2.71843	4.25123	0.24046

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:18:37 AM
SampleId1 : CCV SampleId2 : CCV [FLEXQC]
Analysis commenced : 12/31/2007 7:16:59 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.35806	5.07815	5.12839	5.37416	5.23726	9.69746	10.55217	0.25468	2.63195
#2	5.36315	5.09269	5.16565	5.38999	5.25784	9.74334	10.59309	0.25534	2.63710
Mean	5.36061	5.08542	5.14702	5.38208	5.24755	9.72040	10.57263	0.25501	2.63452
SD	0.00360	0.01028	0.02635	0.01120	0.01455	0.03244	0.02894	0.00047	0.00364
%RSD	0.06722	0.20224	0.51198	0.20807	0.27725	0.33378	0.27371	0.18458	0.13821

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	25.84128	1.04142	2.57269	1.21959	5.11350	2.61578	25.08677	2.58533	1.28125
#2	25.91960	1.04007	2.58031	1.22653	5.10869	2.62039	25.16776	2.58485	1.28240
Mean	25.88044	1.04074	2.57650	1.22306	5.11109	2.61808	25.12727	2.58509	1.28183
SD	0.05538	0.00095	0.00538	0.00491	0.00340	0.00327	0.05727	0.00034	0.00081
%RSD	0.21397	0.09150	0.20896	0.40136	0.06654	0.12474	0.22791	0.01319	0.06306

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	25.66325	2.59123	2.56977	26.85899	5.36526	5.38026	5.09290	5.14610
#2	25.91237	2.60011	2.58202	27.01588	5.33519	5.41902	5.07617	5.21033
Mean	25.78781	2.59567	2.57589	26.93744	5.35022	5.39964	5.08453	5.17822
SD	0.17616	0.00628	0.00866	0.11094	0.02127	0.02741	0.01183	0.04541
%RSD	0.68309	0.24191	0.33625	0.41185	0.39751	0.50755	0.23268	0.87702

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:20:29 AM
SampleId1 : CCB SampleId2 : CCB [FLEXQC]
Analysis commenced : 12/31/2007 7:18:56 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-0.00151	-0.00354	-0.00084	0.00517	-0.00013	0.01456	0.00045	0.00017	-0.00057
#2	0.00050	0.00968	-0.00111	0.00120	0.00198	0.00846	0.00045	0.00017	-0.00057
Mean	-0.00050	0.00307	-0.00097	0.00319	0.00092	0.01151	0.00045	0.00017	-0.00057
SD	0.00142	0.00935	0.00019	0.00281	0.00149	0.00431	0.00000	0.00000	0.00000
%RSD	282.84271	304.11711	19.32669	88.12275	161.43835	37.48420	0.00000	0.34810	0.04593

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	0.01187	-0.00034	-0.00063	0.00029	-0.00243	-0.00046	-0.00257	0.00121	0.00047
#2	0.01187	0.00034	0.00063	0.00048	-0.00487	-0.00046	-0.00129	0.00217	0.00047
Mean	0.01187	0.00000	0.00000	0.00039	-0.00365	-0.00046	-0.00193	0.00169	0.00047
SD	0.00000	0.00047	0.00090	0.00014	0.00173	0.00000	0.00091	0.00068	0.00000
%RSD	0.00000	122137.03832	151887.16165	35.35195	47.29192	0.16989	47.14045	40.40610	0.10615

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	-0.48821	0.00000	0.00136	-0.00334	0.01184	0.00184	0.00097	-0.00175
#2	-0.49120	0.00222	0.00000	-0.00026	0.00137	0.00112	0.00155	-0.00243
Mean	-0.48970	0.00111	0.00068	-0.00180	0.00661	0.00148	0.00126	-0.00209
SD	0.00212	0.00157	0.00096	0.00218	0.00741	0.00051	0.00041	0.00048
%RSD	0.43242	141.39655	141.55594	121.21831	112.05238	34.71899	32.18995	23.19931

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:22:15 AM
SampleId1 : PBW SampleId2 : PBW [FLEXQC]
Analysis commenced : 12/31/2007 7:20:38 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00287	-0.00580	-0.00586	-0.00094	0.00304	0.00548	-0.00067	0.00010	0.00057
#2	0.00524	0.00050	-0.00170	0.00051	-0.00065	0.00857	-0.00067	0.00003	0.00057
Mean	0.00406	-0.00265	-0.00378	-0.00021	0.00119	0.00703	-0.00067	0.00007	0.00057
SD	0.00167	0.00445	0.00295	0.00103	0.00261	0.00218	0.00000	0.00005	0.00000
%RSD	41.30004	167.87053	77.90717	484.10974	218.56791	31.07249	0.00000	69.84359	0.22716

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	0.00712	-0.00101	-0.00148	0.00010	-0.00487	-0.00046	-0.00900	-0.00169	-0.00010
#2	0.00712	-0.00235	-0.00190	0.00010	-0.01700	-0.00047	-0.01028	-0.00024	-0.00010
Mean	0.00712	-0.00168	-0.00169	0.00010	-0.01093	-0.00047	-0.00964	-0.00096	-0.00010
SD	0.00000	0.00095	0.00030	0.00000	0.00857	0.00000	0.00091	0.00102	0.00000
%RSD	0.00000	56.53585	17.70236	0.26769	78.41593	0.80216	9.42809	106.06602	2.84502

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	-0.72991	0.00111	0.00272	-0.01928	0.00535	-0.00408	-0.00360	-0.00700
#2	-0.70458	-0.00111	0.00273	-0.01928	0.00232	-0.00039	-0.00222	-0.00144
Mean	-0.71725	0.00000	0.00272	-0.01928	0.00384	-0.00224	-0.00291	-0.00422
SD	0.01792	0.00157	0.00000	0.00000	0.00214	0.00260	0.00098	0.00393
%RSD	2.49793	166963.74929	0.06733	0.00000	55.73743	116.50364	33.62148	93.13932

Method : ILM053. File : P2123107 Printed : 12/31/2007 7:24:24 AM
SampleId1 : LCSW SampleId2 : LCSW [FLEXQC]
Analysis commenced : 12/31/2007 7:22:43 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	1.05311	0.99495	1.01222	1.07460	1.02947	2.37854	0.54943	0.49278	0.51870
#2	1.06136	1.00286	1.01688	1.07152	1.03604	2.39550	0.54988	0.49412	0.52042
Mean	1.05723	0.99891	1.01455	1.07306	1.03275	2.38702	0.54966	0.49345	0.51956
SD	0.00584	0.00559	0.00330	0.00218	0.00465	0.01199	0.00032	0.00095	0.00121
%RSD	0.55207	0.55978	0.32525	0.20302	0.45018	0.50227	0.05743	0.19154	0.23378

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	10.29000	0.50738	0.50422	0.47097	4.94179	0.51607	5.87479	0.50453	0.50178
#2	10.31373	0.51208	0.50507	0.46924	4.93203	0.51745	5.86322	0.50309	0.49969
Mean	10.30187	0.50973	0.50465	0.47010	4.93691	0.51676	5.86901	0.50381	0.50073
SD	0.01678	0.00332	0.00060	0.00123	0.00690	0.00098	0.00818	0.00102	0.00148
%RSD	0.16289	0.65221	0.11861	0.26110	0.13981	0.18924	0.13939	0.20300	0.29497

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	8.93808	0.51671	1.01685	9.78149	1.06994	1.07774	0.98759	1.02451
#2	9.10945	0.52004	1.01956	9.77663	1.07022	1.07299	0.98634	1.03213
Mean	9.02376	0.51838	1.01820	9.77906	1.07008	1.07536	0.98697	1.02832
SD	0.12118	0.00235	0.00192	0.00344	0.00020	0.00336	0.00088	0.00539
%RSD	1.34289	0.45419	0.18837	0.03516	0.01843	0.31239	0.08896	0.52373

Method : ILM053. File : P2123107 Printed : 12/31/2007 7:26:36 AM
SampleId1 : Y5799-01 SampleId2 : MH24R9 [SAMPLE]
Analysis commenced : 12/31/2007 7:24:53 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01816	-0.01332	0.01962	-0.00140	0.01151	0.02560	0.09219	0.00017	0.00146
#2	0.01608	-0.00138	0.01990	0.00072	0.01177	0.01553	0.09227	0.00017	0.00204
Mean	0.01712	-0.00735	0.01976	-0.00034	0.01164	0.02057	0.09223	0.00017	0.00175
SD	0.00147	0.00844	0.00020	0.00150	0.00019	0.00713	0.00005	0.00000	0.00041
%RSD	8.59794	114.79600	0.99095	439.37587	1.59965	34.65763	0.05705	0.17518	23.21797

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	307.71513	-0.00101	0.00063	0.00207	1.66168	4.06624	73.05181	0.00265	0.00122
#2	308.06161	-0.00101	0.00106	0.00227	1.64249	4.07501	73.24978	0.00217	0.00084
Mean	307.88837	-0.00101	0.00085	0.00217	1.65209	4.07062	73.15079	0.00241	0.00103
SD	0.24500	0.00000	0.00030	0.00014	0.01357	0.00620	0.13999	0.00034	0.00027
%RSD	0.07957	0.02746	35.40475	6.26272	0.82156	0.15233	0.19137	14.14214	26.35922

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	127.19247	0.00000	1.00422	3.59524	-0.00187	-0.00116	0.01712	0.02087
#2	127.41144	0.00112	1.01238	3.59575	0.00428	-0.00106	0.01841	0.02064
Mean	127.30196	0.00056	1.00830	3.59550	0.00121	-0.00111	0.01777	0.02075
SD	0.15483	0.00079	0.00577	0.00036	0.00435	0.00007	0.00091	0.00016
%RSD	0.12163	141.33217	0.57256	0.01011	360.85722	6.35093	5.13188	0.77907

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:28:28 AM
SampleId1 : Y5799-02 SampleId2 : MH24S0 [SAMPLE]
Analysis commenced : 12/31/2007 7:26:54 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01055	-0.00232	-0.00048	-0.00122	0.00964	0.03375	0.09212	0.00017	0.00217
#2	0.01450	-0.00175	0.00164	-0.00516	0.00991	0.02776	0.09227	0.00017	0.00217
Mean	0.01253	-0.00203	0.00058	-0.00319	0.00978	0.03075	0.09219	0.00017	0.00217
SD	0.00279	0.00040	0.00150	0.00278	0.00019	0.00423	0.00011	0.00000	0.00000
%RSD	22.28703	19.75116	257.25176	87.16982	1.92852	13.76572	0.11414	0.17099	0.08593

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	312.27158	-0.00033	0.00063	0.00185	0.75914	4.13695	75.72053	0.00024	0.00064
#2	312.73672	-0.00101	0.00106	0.00224	0.77650	4.14342	76.01491	0.00313	0.00102
Mean	312.50415	-0.00067	0.00085	0.00205	0.76782	4.14019	75.86772	0.00169	0.00083
SD	0.32890	0.00047	0.00030	0.00027	0.01228	0.00458	0.20816	0.00205	0.00027
%RSD	0.10525	70.80612	35.29535	13.33519	1.59893	0.11051	0.27437	121.21831	32.56941

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	134.57057	-0.00314	0.99197	3.84350	0.00127	-0.00247	-0.00474	0.00165
#2	135.35320	-0.00424	0.98517	3.88206	-0.00462	-0.00543	0.00088	0.00202
Mean	134.96189	-0.00369	0.98857	3.86278	-0.00168	-0.00395	-0.00193	0.00184
SD	0.55341	0.00078	0.00481	0.02726	0.00416	0.00209	0.00397	0.00026
%RSD	0.41005	21.12926	0.48656	0.70570	248.31460	53.03273	206.12311	14.33274

Method : ILM053. File : P2123107 Printed : 12/31/2007 7:30:41 AM
SampleId1 : Y5799-03 SampleId2 : MH24S1 [SAMPLE]
Analysis commenced : 12/31/2007 7:28:59 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.01141	-0.00276	0.01614	-0.00237	0.00858	0.02166	0.09361	0.00010	0.00167
#2	0.00825	-0.00142	0.01609	-0.00295	0.00752	0.02471	0.09420	0.00010	0.00110
Mean	0.00983	-0.00209	0.01611	-0.00266	0.00805	0.02318	0.09390	0.00010	0.00139
SD	0.00223	0.00095	0.00004	0.00041	0.00075	0.00216	0.00042	0.00000	0.00040
%RSD	22.71000	45.46971	0.21742	15.40884	9.26752	9.30244	0.44825	0.28285	29.04281

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	306.49058	-0.00034	0.00148	0.00203	0.27280	3.56634	73.16236	0.00072	-0.00042
#2	306.03256	-0.00033	0.00106	0.00203	0.26358	3.56771	73.56730	0.00313	-0.00004
Mean	306.26157	-0.00033	0.00127	0.00203	0.26819	3.56703	73.36483	0.00193	-0.00023
SD	0.32387	0.00000	0.00030	0.00000	0.00652	0.00097	0.28633	0.00170	0.00027
%RSD	0.10575	0.08091	23.62981	0.00962	2.43048	0.02716	0.39029	88.38835	117.32721

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	152.06114	-0.00206	1.03143	4.40326	-0.00031	-0.00340	0.01445	0.01698
#2	154.49342	-0.00315	1.03688	4.47779	0.00042	-0.00463	0.01826	0.01500
Mean	153.27728	-0.00260	1.03415	4.44053	0.00005	-0.00401	0.01636	0.01599
SD	1.71988	0.00077	0.00385	0.05270	0.00051	0.00087	0.00269	0.00140
%RSD	1.12207	29.74976	0.37216	1.18683	960.87263	21.69675	16.47052	8.74100

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:32:58 AM
SampleId1 : Y5799-04 SampleId2 : MH24S1D [SAMPLE]
Analysis commenced : 12/31/2007 7:31:21 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00646	-0.00092	0.02010	-0.00105	0.00700	0.02371	0.09390	0.00017	0.00167
#2	0.00689	-0.00198	0.01314	-0.00134	0.00727	0.02772	0.09420	0.00010	0.00110
Mean	0.00668	-0.00145	0.01662	-0.00120	0.00713	0.02571	0.09405	0.00013	0.00139
SD	0.00030	0.00075	0.00493	-0.00021	0.00019	0.00284	0.00021	0.00005	0.00040
%RSD	4.56198	51.44291	29.63965	17.16395	2.66506	11.04404	0.22377	35.05182	29.16451

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	307.10523	-0.00101	0.00106	0.00223	0.28281	3.57697	73.40147	0.00217	0.00035
#2	306.41226	-0.00235	0.00106	0.00223	0.28322	3.56956	73.73184	0.00121	-0.00003
Mean	306.75875	-0.00168	0.00106	0.00223	0.28301	3.57327	73.56665	0.00169	0.00016
SD	0.49000	0.00095	0.00000	0.00000	0.00028	0.00524	0.23361	0.00068	0.00027
%RSD	0.15973	56.60590	0.02258	0.00038	0.10048	0.14657	0.31755	40.40610	172.72156

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	153.19047	-0.00316	1.02327	4.42485	0.00153	-0.00234	0.01693	0.02169
#2	154.44002	-0.00315	1.02599	4.46905	-0.00059	-0.00172	0.00850	0.01545
Mean	153.81524	-0.00315	1.02463	4.44695	0.00047	-0.00203	0.01271	0.01857
SD	0.88357	0.00001	0.00193	0.03126	0.00150	0.00044	0.00596	0.00441
%RSD	0.57444	0.24347	0.18799	0.70290	320.18810	21.58639	46.89820	23.74225

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:35:08 AM
SampleId1 : Y5799-03LX5 SampleId2 : MH24S1L [SAMPLE]
Analysis commenced : 12/31/2007 7:33:28 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00467	-0.00686	0.00051	-0.00110	0.00277	0.03370	0.01950	0.00017	0.00114
#2	0.00452	0.00113	0.00385	-0.00139	0.00066	0.03876	0.01950	0.00017	0.00057
Mean	0.00459	-0.00286	0.00218	-0.00124	0.00171	0.03623	0.01950	0.00017	0.00085
SD	0.00010	0.00565	0.00236	0.00021	0.00149	0.00358	0.00000	0.00000	0.00040
%RSD	2.20971	197.32930	108.38205	16.74513	87.05013	9.87450	0.00000	0.17334	47.49803

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	65.78148	0.00034	0.00106	0.00048	0.04277	0.78175	15.32459	0.00024	0.00048
#2	65.30210	0.00034	0.00106	0.00087	0.04264	0.77575	15.20504	-0.00024	0.00105
Mean	65.54179	0.00034	0.00106	0.00068	0.04271	0.77875	15.26482	0.00000	0.00077
SD	0.33897	0.00000	0.00000	0.00027	0.00010	0.00425	0.08454	0.00034	0.00040
%RSD	0.51718	0.08185	0.01128	40.32912	0.22748	0.54537	0.55380155370025605716	2.24000	

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	23.79661	-0.00172	0.21636	0.69057	0.00312	-0.00320	0.00243	-0.00045
#2	23.51681	-0.00283	0.21499	0.68235	-0.00035	-0.00191	0.00133	0.00511
Mean	23.65671	-0.00228	0.21567	0.68646	0.00139	-0.00256	0.00188	0.00233
SD	0.19785	0.00079	0.00096	0.00582	0.00245	0.00091	0.00077	0.00393
%RSD	0.83634	34.60746	0.44613	0.84715	176.59404	35.69107	41.23685	168.61665

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:37:00 AM
SampleId1 : Y5799-05 SampleId2 : MH24S1S [SAMPLE]
Analysis commenced : 12/31/2007 7:35:24 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.05950	0.05799	0.03691	0.05550	0.12222	2.38947	2.50868	0.05328	0.05643
#2	0.05512	0.05115	0.03968	0.05615	0.11616	2.33849	2.47483	0.05241	0.05643
Mean	0.05731	0.05457	0.03830	0.05582	0.11919	2.36398	2.49175	0.05285	0.05643
SD	0.00310	0.00483	0.00196	0.00046	0.00429	0.03605	0.02394	0.00061	0.00000
%RSD	5.40182	8.85777	5.11593	0.82550	3.59706	1.52488	0.96076	1.16031	0.00211

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	300.88281	0.21916	0.55496	0.29422	1.38268	4.04857	72.52989	0.56094	0.03432
#2	299.64403	0.21849	0.54989	0.28766	1.37161	4.02779	71.37036	0.55226	0.03469
Mean	300.26342	0.21882	0.55242	0.29094	1.37714	4.03818	71.95012	0.55660	0.03450
SD	0.87595	0.00047	0.00359	0.00464	0.00783	0.01469	0.81991	0.00614	0.00026
%RSD	0.29173	0.21634	0.64931	1.59360	0.56835	0.36374	1.13956	1.10246	0.76555

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	151.29687	0.54928	1.56850	4.43410	0.05252	0.05733	0.03385	0.03845
#2	148.89017	0.54259	1.55489	4.35135	0.05634	0.05640	0.03258	0.04323
Mean	150.09352	0.54594	1.56169	4.39272	0.05443	0.05686	0.03321	0.04084
SD	1.70180	0.00473	0.00962	0.05852	0.00270	0.00066	0.00090	0.00338
%RSD	1.13382	0.86712	0.61605	1.33213	4.96773	1.16049	2.69572	8.28762

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:38:53 AM
SampleId1 : Y5799-06 SampleId2 : MH24S2 [SAMPLE]
Analysis commenced : 12/31/2007 7:37:16 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00732	0.00344	-0.00426	-0.00222	0.01121	0.01768	0.09517	0.00010	0.00059
#2	0.00811	-0.00208	-0.00347	0.00040	0.01200	0.00964	0.09502	0.00010	0.00059
Mean	0.00772	0.00068	-0.00387	-0.00091	0.01161	0.01366	0.09509	0.00010	0.00059
SD	0.00056	0.00390	-0.00056	0.00186	0.00056	0.00568	0.00011	0.00000	0.00000
%RSD	7.23551	572.00901	14.44042	203.67086	4.81957	41.57847	0.11066	0.00046	0.13490

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	314.16536	-0.00101	0.00021	0.00106	-0.10158	3.64379	74.82196	0.00121	-0.00012
#2	314.28165	-0.00101	0.00021	0.00106	-0.10897	3.64564	74.74225	0.00169	0.00045
Mean	314.22350	-0.00101	0.00021	0.00106	-0.10527	3.64472	74.78211	0.00145	0.00016
SD	0.08223	0.00000	0.00000	0.00000	0.00522	0.00131	0.05636	0.00034	0.00040
%RSD	0.02617	0.00004	0.05655	0.01481	4.95780	0.03586	0.07536	23.57023	243.43631

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	156.21997	-0.00307	1.03960	4.52765	0.00176	-0.00421	-0.00090	-0.00594
#2	155.76197	-0.00307	1.04096	4.50966	0.00293	-0.00086	-0.00980	-0.00031
Mean	155.99097	-0.00307	1.04028	4.51866	0.00235	-0.00254	-0.00535	-0.00313
SD	0.32385	0.00000	0.00096	0.01272	0.00083	0.00237	0.00630	0.00398
%RSD	0.20761	0.04105	0.09249	0.28152	35.40773	93.25447	117.70720	127.34224

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:40:52 AM
SampleId1 : Y5799-07 SampleId2 : MH24S3 [SAMPLE]
Analysis commenced : 12/31/2007 7:39:10 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00610	-0.00023	0.00133	-0.00194	0.00356	0.03479	0.14874	0.00017	0.00631
#2	0.00459	-0.00546	0.00343	-0.00134	0.00936	0.05182	0.14919	0.00024	0.00631
Mean	0.00535	-0.00285	0.00238	-0.00164	0.00646	0.04331	0.14897	0.00020	0.00631
SD	0.00107	0.00370	0.00149	0.00042	0.00410	0.01204	0.00032	0.00005	0.00000
%RSD	19.93187	130.04099	62.51375	25.72582	63.49805	27.80976	0.21192	23.26462	0.02942

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	289.05976	-0.00033	0.00021	0.00337	-0.14482	1.06194	71.18653	0.00410	-0.00032
#2	290.06360	0.00034	-0.00021	0.00337	-0.12754	1.06518	71.42692	0.00362	0.00025
Mean	289.56168	0.00000	0.00000	0.00337	-0.13618	1.06356	71.30672	0.00386	-0.00003
SD	0.70983	0.00047	0.00030	0.00000	0.01222	0.00229	0.16998	0.00034	0.00041
%RSD	0.24514	36326.12192	22147.26479	0.01088	8.97264	0.21516	0.23838	8.83883	1266.03013

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	626.12119	-0.00429	2.66159	6.55747	-0.00253	-0.00164	0.00298	0.00050
#2	627.89499	-0.00318	2.67247	6.59705	0.00139	-0.00271	0.00412	0.00309
Mean	627.00809	-0.00373	2.66703	6.57726	-0.00057	-0.00217	0.00355	0.00180
SD	1.25427	0.00079	0.00770	0.02799	0.00277	0.00075	0.00080	0.00183
%RSD	0.20004	21.12458	0.28858	0.42550	488.63057	34.48784	22.62864	101.87177

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:46:52 AM
SampleId1 : CCV SampleId2 : CCV [FLEXQC]
Analysis commenced : 12/31/2007 7:45:11 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	5.41089	5.09951	5.19432	4.93163	5.28942	9.71563	10.60440	0.25800	2.66912
#2	5.42603	5.11690	5.26559	4.98347	5.32318	9.77878	10.64384	0.25800	2.67198
Mean	5.41846	5.10821	5.22995	4.95755	5.30630	9.74721	10.62412	0.25800	2.67055
SD	0.01071	0.01230	0.05040	0.03666	0.02387	0.04465	0.02789	0.00000	0.00202
%RSD	0.19764	0.24072	0.96359	0.73940	0.44983	0.45808	0.26248	0.00034	0.07575

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	26.36100	1.05752	2.60398	1.21014	5.18346	2.64724	25.02378	2.61571	1.30295
#2	26.30168	1.05752	2.60483	1.21708	5.18121	2.64077	25.18576	2.61715	1.30295
Mean	26.33134	1.05752	2.60441	1.21361	5.18233	2.64401	25.10477	2.61643	1.30295
SD	0.04195	0.00000	0.00060	0.00491	0.00159	0.00458	0.11453	0.00102	0.00000
%RSD	0.15932	0.00008	0.02295	0.40449	0.03075	0.17325	0.45622	0.03909	0.00007

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	25.29346	2.64670	2.56837	24.23066	5.43574	5.47207	5.12235	5.23025
#2	25.33945	2.65004	2.56701	24.41621	5.43592	5.54793	5.14601	5.32529
Mean	25.31645	2.64837	2.56769	24.32344	5.43583	5.51000	5.13418	5.27777
SD	0.03252	0.00236	0.00096	0.13121	0.00012	0.05364	0.01673	0.06720
%RSD	0.12845	0.08903	0.03747	0.53943	0.00225	0.97347	0.32577	1.27335

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:48:56 AM
SampleId1 : CCB SampleId2 : CCB [FLEXQC]
Analysis commenced : 12/31/2007 7:47:10 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00725	0.00685	-0.00297	0.00014	0.00039	0.00645	0.00253	0.00023	0.00057
#2	0.00991	0.00926	-0.00383	0.00202	0.00039	0.00946	0.00179	0.00010	0.00172
Mean	0.00858	0.00805	-0.00340	0.00108	0.00039	0.00796	0.00216	0.00017	0.00114
SD	0.00188	0.00170	0.00061	0.00133	0.00000	0.00213	0.00053	0.00009	0.00081
%RSD	21.89368	21.08853	17.95463	123.10260	0.04384	26.77063	24.38299	56.84792	70.79032

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	0.01424	0.00101	0.00063	0.00010	0.00241	0.00046	-0.00129	-0.00072	0.00048
#2	0.01424	0.00101	0.00021	0.00010	-0.00973	0.00046	-0.00257	0.00024	-0.00010
Mean	0.01424	0.00101	0.00042	0.00010	-0.00366	0.00046	-0.00193	-0.00024	0.00019
SD	0.00000	0.00000	0.00030	0.00000	0.00859	0.00000	0.00091	0.00068	0.00040
%RSD	0.00000	0.00003	70.75298	0.26747	234.52781	0.81388	47.14045	282.84271	212.62927

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	-0.55187	0.00222	0.00408	0.00488	0.00333	-0.00145	-0.00298	-0.00296
#2	-0.58350	0.00222	0.00136	-0.00437	0.00204	0.00201	-0.00741	-0.00205
Mean	-0.56769	0.00222	0.00272	0.00026	0.00269	0.00028	-0.00519	-0.00251
SD	0.02237	0.00000	0.00192	0.00654	0.00091	0.00245	0.00313	0.00065
%RSD	3.94023	0.04314	70.76126	2545.58441	33.88656	879.79734	60.30176	25.84576

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:51:02 AM
SampleId1 : Y5799-08 SampleId2 : MH24S4 [SAMPLE]
Analysis commenced : 12/31/2007 7:49:19 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00955	0.00003	0.00384	-0.00046	0.00092	0.01652	0.15053	0.00017	0.00632
#2	0.00854	-0.00231	0.00229	0.00004	0.00488	0.02155	0.15142	0.00017	0.00689
Mean	0.00904	-0.00114	0.00307	-0.00021	0.00290	0.01904	0.15097	0.00017	0.00660
SD	0.00071	0.00165	0.00110	0.00035	0.00280	0.00355	0.00063	0.00000	0.00040
%RSD	7.85674	145.12542	35.77234	166.06133	96.48269	18.64929	0.41820	0.00113	6.12676

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	298.45508	-0.00034	0.00148	0.00298	-0.15242	1.08552	70.94742	0.00072	-0.00032
#2	299.96440	-0.00034	0.00106	0.00298	-0.15216	1.08875	71.16725	0.00121	-0.00051
Mean	299.20974	-0.00034	0.00127	0.00298	-0.15229	1.08714	71.05733	0.00096	-0.00041
SD	1.06726	0.00000	0.00030	0.00000	0.00019	0.00228	0.15544	0.00034	0.00013
%RSD	0.35669	0.00053	23.58590	0.00019	0.12307	0.21005	0.21875	35.35534	32.53371

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	611.55109	0.00125	2.71057	6.23673	0.00798	-0.00468	0.00079	0.00536
#2	613.20668	0.00126	2.72962	6.26346	0.01151	-0.00569	0.00208	0.00240
Mean	612.37889	0.00125	2.72010	6.25010	0.00975	-0.00519	0.00144	0.00388
SD	1.17068	0.00001	0.01347	0.01890	0.00249	0.00071	0.00091	0.00210
%RSD	0.19117	0.40773	0.49522	0.30239	25.57639	13.74383	63.26926	54.05688

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:52:56 AM
SampleId1 : Y5799-09 SampleId2 : MH24S5 [SAMPLE]
Analysis commenced : 12/31/2007 7:51:20 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00868	-0.00405	0.01752	0.00148	0.00568	0.01857	0.10253	0.00017	0.00284
#2	0.00510	-0.00406	0.02137	-0.00311	0.01095	0.02155	0.10253	0.00017	0.00227
Mean	0.00689	-0.00405	0.01945	-0.00082	0.00831	0.02006	0.10253	0.00017	0.00255
SD	0.00254	0.00000	0.00273	0.00325	0.00373	0.00210	0.00000	0.00000	0.00041
%RSD	36.82848	0.10240	14.01865	397.12319	44.84751	10.48364	0.00000	0.17425	15.90762

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	304.46865	-0.00101	-0.00106	0.00261	0.13392	2.94271	70.76874	0.00265	0.00031
#2	305.97323	-0.00034	-0.00106	0.00222	0.14863	2.95427	70.89857	0.00217	0.00051
Mean	305.22094	-0.00067	-0.00106	0.00241	0.14128	2.94849	70.83365	0.00241	0.00041
SD	1.06390	0.00047	0.00000	0.00027	0.01041	0.00817	0.09181	0.00034	0.00014
%RSD	0.34857	70.64553	0.01127	11.28092	7.36663	0.27723	0.12961	14.14214	33.31563

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	229.78092	0.00010	1.47367	4.64125	0.00359	0.00042	0.01408	0.01924
#2	229.69737	0.00121	1.48864	4.65050	0.00313	-0.00623	0.01850	0.02281
Mean	229.73915	0.00066	1.48116	4.64587	0.00336	-0.00290	0.01629	0.02102
SD	0.05907	0.00079	0.01058	0.00654	0.00032	0.00471	0.00313	0.00252
%RSD	0.02571	119.73829	0.71451	0.14082	9.62185	162.07142	19.20776	12.01096

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:54:41 AM
SampleId1 : Y5799-10 SampleId2 : MH24S6 [SAMPLE]
Analysis commenced : 12/31/2007 7:53:11 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00797	-0.00137	-0.00266	0.00058	0.01068	0.04475	0.10566	0.00017	0.00231
#2	0.00833	-0.00137	-0.00004	-0.00238	0.00962	0.04174	0.10529	0.00017	0.00174
Mean	0.00815	-0.00137	-0.00135	-0.00090	0.01015	0.04325	0.10547	0.00017	0.00203
SD	0.00025	0.00000	0.00185	0.00209	0.00075	0.00213	0.00026	0.00000	0.00041
%RSD	3.11501	0.15850	137.58564	232.91221	7.36467	4.92503	0.24942	0.00134	20.11240

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	309.07494	0.00034	0.00063	0.00106	-0.16582	3.03078	73.91953	0.00169	0.00025
#2	309.45465	0.00101	0.00233	0.00125	-0.13931	3.03219	73.75112	0.00169	-0.00013
Mean	309.26480	0.00067	0.00148	0.00115	-0.15257	3.03148	73.83533	0.00169	0.00006
SD	0.26849	0.00048	0.00120	0.00014	0.01874	0.00099	0.11908	0.00000	0.00026
%RSD	0.08682	70.63797	80.84446	11.88071	12.28534	0.03274	0.16128	0.00000	438.81153

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	240.04764	-0.00198	1.49408	5.03755	0.00968	-0.00396	0.00033	-0.00415
#2	239.47868	-0.00199	1.49000	5.01339	0.00447	-0.00580	0.00014	-0.00012
Mean	239.76316	-0.00198	1.49204	5.02547	0.00707	-0.00488	0.00023	-0.00214
SD	0.40232	0.00001	0.00289	0.01708	0.00368	0.00130	0.00014	0.00285
%RSD	0.16780	0.30664	0.19352	0.33992	52.07034	26.65483	58.34906	133.25632

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:56:53 AM
SampleId1 : Y5799-11 SampleId2 : MH24S6 [SAMPLE]
Analysis commenced : 12/31/2007 7:55:15 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01012	-0.00485	0.01125	-0.00127	0.01147	0.06387	0.10410	0.00024	0.00228
#2	0.01191	-0.00585	0.01351	0.00261	0.01094	0.06283	0.10477	0.00023	0.00285
Mean	0.01102	-0.00535	0.01238	0.00067	0.01121	0.06335	0.10443	0.00024	0.00257
SD	0.00127	0.00071	0.00160	0.00274	0.00037	0.00074	0.00047	0.00000	0.00040
%RSD	11.51640	13.20566	12.90996	408.37714	3.32776	1.16363	0.45344	0.12431	15.73513

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	288.59936	0.00101	0.00148	0.00203	0.04386	2.52020	68.57051	0.00169	-0.00066
#2	290.33414	0.00101	0.00233	0.00183	0.04901	2.53545	68.81861	0.00217	0.00010
Mean	289.46675	0.00101	0.00190	0.00193	0.04643	2.52782	68.69456	0.00193	-0.00028
SD	1.22667	0.00000	0.00060	0.00014	0.00364	0.01078	0.17544	0.00034	0.00054
%RSD	0.42377	0.02741	31.43185	7.06030	7.84120	0.42660	0.25539	17.67767	194.93871

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	197.61902	-0.00329	1.41652	5.75973	0.00470	-0.00424	0.01704	0.00835
#2	198.48955	-0.00217	1.43012	5.79366	0.00743	0.00021	0.00646	0.01702
Mean	198.05428	-0.00273	1.42332	5.77669	0.00606	-0.00202	0.01175	0.01269
SD	0.61556	0.00079	0.00962	0.02399	0.00193	0.00315	0.00748	0.00613
%RSD	0.31080	28.91902	0.67601	0.41526	31.87247	156.20417	63.63262	48.30613

Method : ILMO53. File : P2123107 Printed : 12/31/2007 7:59:00 AM
SampleId1 : Y5799-12 SampleId2 : MH24T0 [SAMPLE]
Analysis commenced : 12/31/2007 7:57:16 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00912	-0.00260	0.00084	0.00336	0.01095	0.06183	0.10306	0.00017	0.00174
#2	0.00790	-0.00939	0.00415	-0.00394	0.01305	0.06082	0.10261	0.00023	0.00174
Mean	0.00851	-0.00599	0.00250	-0.00029	0.01200	0.06133	0.10283	0.00020	0.00174
SD	0.00086	0.00480	0.00234	0.00516	0.00149	0.00071	0.00032	0.00005	0.00000
%RSD	10.14415	80.07102	93.84504	1756.00362	12.41999	1.15745	0.30699	23.47713	0.10368

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	283.46860	-0.00101	-0.00064	0.00106	-0.15332	2.48360	68.16943	0.00217	-0.00127
#2	283.86967	-0.00034	-0.00021	0.00106	-0.13655	2.48408	67.98046	0.00217	-0.00089
Mean	283.66913	-0.00067	-0.00042	0.00106	-0.14494	2.48384	68.07495	0.00217	-0.00108
SD	0.28359	0.00048	0.00030	0.00000	0.01186	0.00034	0.13362	0.00000	0.00027
%RSD	0.09997	70.79121	70.58397	0.03368	8.18094	0.01354	0.19629	0.00000	25.16456

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	196.02440	-0.00217	1.38931	5.69240	0.00215	0.00396	-0.00213	0.00232
#2	195.46447	-0.00218	1.39339	5.65230	0.00013	-0.00598	0.00083	0.00582
Mean	195.74444	-0.00218	1.39135	5.67235	0.00114	-0.00101	-0.00065	0.00407
SD	0.39592	0.00001	0.00289	0.02835	0.00143	0.00703	0.00209	0.00247
%RSD	0.20227	0.26538	0.20740	0.49979	125.12204	695.28773	321.14447	60.75434

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:00:59 AM
SampleId1 : Y5799-13 SampleId2 : MH24T1 [SAMPLE]
Analysis commenced : 12/31/2007 7:59:24 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.01156	-0.00547	0.01554	0.00060	0.00989	0.08091	0.10350	0.00017	0.00171
#2	0.00991	0.00322	0.01445	-0.00218	0.01173	0.06581	0.10358	0.00023	0.00171
Mean	0.01073	-0.00113	0.01499	-0.00079	0.01081	0.07336	0.10354	0.00020	0.00171
SD	0.00117	0.00615	0.00078	0.00197	0.00130	0.01068	0.00005	0.00005	0.00000
%RSD	10.87857	545.56609	5.17230	248.96034	12.04402	14.55514	0.05082	23.35523	0.09154

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	286.66050	0.00034	0.00063	0.00261	0.05556	2.49340	68.21057	0.00313	0.00011
#2	288.35493	0.00168	0.00021	0.00261	0.07010	2.50404	68.19128	0.00313	0.00030
Mean	287.50771	0.00101	0.00042	0.00261	0.06283	2.49872	68.20093	0.00313	0.00020
SD	1.19814	0.00095	0.00030	0.00000	0.01028	0.00752	0.01363	0.00000	0.00014
%RSD	0.41673	94.20004	70.89451	0.01184	16.35950	0.30110	0.01999	0.00000	67.54500

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	197.80494	-0.00219	1.44509	5.76127	0.00813	-0.00316	0.01347	0.01658
#2	197.58834	-0.00109	1.45189	5.72786	0.00336	-0.00495	0.01994	0.01170
Mean	197.69664	-0.00164	1.44849	5.74457	0.00575	-0.00405	0.01670	0.01414
SD	0.15316	0.00078	0.00481	0.02362	0.00337	0.00127	0.00458	0.00345
%RSD	0.07747	47.73477	0.33200	0.41126	58.65670	31.28581	27.42293	24.39594

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:03:21 AM
SampleId1 : Y5799-14 SampleId2 : MH24T2 [SAMPLE]
Analysis commenced : 12/31/2007 8:01:24 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.01335	-0.00851	0.00186	0.00105	0.00936	0.05581	0.10067	0.00023	0.00288
#2	0.00574	-0.00470	0.00379	-0.00078	0.01042	0.04978	0.10045	0.00023	0.00231
Mean	0.00955	-0.00661	0.00283	0.00014	0.00989	0.05279	0.10056	0.00023	0.00260
SD	0.00538	0.00270	0.00136	0.00130	0.00074	0.00426	0.00016	0.00000	0.00040
%RSD	56.35588	40.84204	48.24872	935.43823	7.52435	8.06904	0.15696	0.00104	15.58688

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	281.08596	-0.00101	0.00063	0.00164	-0.13584	2.43512	66.56125	0.00217	0.00006
#2	282.15862	-0.00034	0.00148	0.00221	-0.13618	2.44021	66.27716	0.00265	0.00044
Mean	281.62229	-0.00067	0.00106	0.00192	-0.13601	2.43767	66.41921	0.00241	0.00025
SD	0.75849	0.00048	0.00060	0.00041	0.00024	0.00360	0.20089	0.00034	0.00027
%RSD	0.26933	70.79331	56.60242	21.25780	0.17909	0.14776	0.30245	14.14214	105.84809

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	191.34853	-0.00223	1.41108	5.57572	0.00555	-0.00119	0.00779	-0.00109
#2	190.25153	-0.00224	1.40972	5.52946	0.00151	-0.00192	-0.00150	0.00643
Mean	190.80003	-0.00223	1.41040	5.55259	0.00353	-0.00155	0.00314	0.00267
SD	0.77570	0.00001	0.00096	0.03271	0.00285	0.00052	0.00657	0.00532
%RSD	0.40655	0.29588	0.06829	0.58912	80.91216	33.24046	208.84362	199.41689

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:09:11 AM
SampleId1 : CRI SampleId2 : CRI [FLEXQC]
Analysis commenced : 12/31/2007 8:07:37 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00983	0.02442	0.01549	0.04262	0.06918	0.24664	0.23022	0.00583	0.00571
#2	0.01321	0.02866	0.01122	0.04237	0.06734	0.23958	0.22866	0.00590	0.00571
Mean	0.01152	0.02654	0.01336	0.04249	0.06826	0.24311	0.22944	0.00587	0.00571
SD	0.00239	0.00300	0.00302	0.00017	0.00131	0.00500	0.00110	0.00005	0.00000
%RSD	20.70420	11.30210	22.61948	0.40404	1.91199	2.05548	0.48157	0.80138	0.02738

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	5.38232	0.01174	0.05307	0.02382	0.08243	0.01606	4.90423	0.04604	0.01078
#2	5.38232	0.01174	0.05349	0.02363	0.09697	0.01653	4.88238	0.04508	0.01078
Mean	5.38232	0.01174	0.05328	0.02372	0.08970	0.01630	4.89330	0.04556	0.01078
SD	0.00000	0.00000	0.00030	0.00014	0.01028	0.00033	0.01545	0.00068	0.00000
%RSD	0.00000	0.00233	0.56181	0.57352	11.45978	2.03625	0.31580	1.49652	0.02507

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	3.28484	0.05452	0.06801	4.06401	0.05350	0.03720	0.01165	0.00934
#2	3.30087	0.05563	0.06665	4.01621	0.04773	0.03972	0.00660	0.00545
Mean	3.29285	0.05508	0.06733	4.04011	0.05061	0.03846	0.00913	0.00740
SD	0.01134	0.00078	0.00096	0.03380	0.00408	0.00178	0.00357	0.00275
%RSD	0.34431	1.42151	1.42898	0.83665	8.05914	4.62578	39.11390	37.13565

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:15:26 AM
SampleId1 : ICSA SampleId2 : ICSA [FLEXQC]
Analysis commenced : 12/31/2007 8:13:51 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00395	-0.00641	0.00257	0.00739	0.00387	239.97949	0.00171	0.00097	0.00069
#2	0.00610	0.00016	-0.00193	0.00066	0.00494	240.71150	0.00193	0.00097	0.00116
Mean	0.00502	-0.00312	0.00032	0.00403	0.00440	240.34549	0.00182	0.00097	0.00093
SD	0.00152	0.00464	0.00318	0.00476	0.00076	0.51760	0.00016	0.00000	0.00033
%RSD	30.30458	148.67322	998.67447	118.17809	17.15002	0.21536	8.65845	0.00056	35.67960

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	257.54901	0.04266	0.00317	0.01803	102.68084	0.02107	255.75395	0.01326	0.00470
#2	258.95866	0.04132	0.00274	0.01785	103.08734	0.02123	256.54583	0.01422	0.00456
Mean	258.25383	0.04199	0.00296	0.01794	102.88409	0.02115	256.14989	0.01374	0.00463
SD	0.99678	0.00095	0.00030	0.00013	0.28744	0.00011	0.55994	0.00068	0.00010
%RSD	0.38597	2.26269	10.12603	0.71221	0.27938	0.51596	0.21860	4.96215	2.17871

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.46277	-0.00226	0.04890	0.01928	0.01424	0.00404	-0.02974	0.01869
#2	0.22110	-0.00228	0.04891	0.02596	0.00483	-0.00135	-0.03751	0.01583
Mean	0.34193	-0.00227	0.04891	0.02262	0.00953	0.00134	-0.03362	0.01726
SD	0.17089	0.00001	0.00000	0.00472	0.00665	0.00381	0.00550	0.00202
%RSD	49.97796	0.64242	0.00375	20.89179	69.79377	283.69511	16.34865	11.71100

Method : ILMO53, File : P2123107 Printed : 12/31/2007 8:17:18 AM
SampleId1 : ICSAB SampleId2 : ICSAB [FLEXQC]
Analysis commenced : 12/31/2007 8:15:44 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.11089	0.10626	0.05249	0.05239	0.61959	237.89998	0.54631	0.47265	1.03629
#2	0.11168	0.10100	0.05610	0.05615	0.62407	237.99541	0.54653	0.47151	1.03517
Mean	0.11129	0.10363	0.05429	0.05427	0.62183	237.94770	0.54642	0.47208	1.03573
SD	0.00056	0.00371	0.00255	0.00266	0.00317	0.06748	0.00016	0.00080	0.00079
%RSD	0.50166	3.58427	4.70392	4.90163	0.50975	0.02836	0.02889	0.17028	0.07585

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	256.08714	0.54768	0.50867	0.54312	102.15896	0.54053	253.73313	1.07632	0.22745
#2	255.76914	0.54701	0.51037	0.54369	102.00355	0.53954	253.72927	1.07632	0.22743
Mean	255.92814	0.54735	0.50952	0.54340	102.08126	0.54003	253.73120	1.07632	0.22744
SD	0.22486	0.00047	0.00120	0.00041	0.10989	0.00070	0.00273	0.00000	0.00002
%RSD	0.08786	0.08674	0.23480	0.07467	0.10765	0.13000	0.00107	0.00000	0.00785

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	0.61504	0.52259	1.07528	0.03624	0.05836	0.05028	0.01425	0.07158
#2	0.18863	0.52150	1.07936	0.03829	0.05707	0.05656	0.02086	0.07369
Mean	0.40184	0.52204	1.07732	0.03727	0.05771	0.05342	0.01755	0.07264
SD	0.30152	0.00077	0.00289	0.00145	0.00091	0.00444	0.00468	0.00149
%RSD	75.03546	0.14790	0.26802	3.90128	1.57716	8.31441	26.63830	2.05777

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:24:56 AM
SampleId1 : CCV SampleId2 : CCV [FLEXQC]
Analysis commenced : 12/31/2007 8:22:16 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	5.19995	5.13020	5.24781	5.05756	5.35533	9.59664	10.58364	0.26132	2.72116
#2	5.23323	5.15224	5.29288	5.05164	5.39727	9.66558	10.64756	0.26212	2.72803
Mean	5.21659	5.14122	5.27035	5.05460	5.37630	9.63111	10.61560	0.26172	2.72460
SD	0.02354	0.01558	0.03187	0.00419	0.02965	0.04875	0.04520	0.00057	0.00485
%RSD	0.45117	0.30312	0.60474	0.08283	0.55157	0.50615	0.42575	0.21588	0.17812

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	26.52001	1.06287	2.62427	1.18122	5.28444	2.64684	24.57128	2.64849	1.31611
#2	26.56510	1.06152	2.63358	1.19105	5.29675	2.65239	24.75768	2.65476	1.31802
Mean	26.54255	1.06220	2.62893	1.18614	5.29060	2.64961	24.66448	2.65162	1.31706
SD	0.03188	0.00095	0.00658	0.00695	0.00870	0.00392	0.13180	0.00443	0.00135
%RSD	0.12012	0.08968	0.25023	0.58632	0.16452	0.14804	0.53439	0.16713	0.10238

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	24.73154	2.71991	2.55612	24.01991	5.57877	5.59425	5.18447	5.27944
#2	25.00795	2.72990	2.56701	24.24299	5.56023	5.59598	5.17792	5.35028
Mean	24.86974	2.72491	2.56156	24.13145	5.56950	5.59511	5.18119	5.31486
SD	0.19545	0.00707	0.00770	0.15774	0.01311	0.00122	0.00463	0.05010
%RSD	0.78588	0.25928	0.30057	0.65368	0.23540	0.02185	0.08936	0.94255

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:26:50 AM
SampleId1 : CCB SampleId2 : CCB [FLEXQC]
Analysis commenced : 12/31/2007 8:25:08 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00660	0.00919	-0.00320	0.00470	0.00118	0.07484	0.00193	0.00037	0.00057
#2	0.01029	0.00976	-0.00488	0.00068	0.00197	0.07384	0.00156	0.00037	0.00000
Mean	0.00845	0.00947	-0.00404	0.00269	0.00158	0.07434	0.00175	0.00037	0.00029
SD	0.00261	0.00040	0.00119	0.00284	0.00056	0.00071	0.00026	0.00000	0.00040
%RSD	30.84276	4.22448	29.34741	105.47360	35.50637	0.95505	15.04483	0.00003	140.51421

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	0.01424	0.00168	0.00106	-0.00029	-0.01458	-0.00001	-0.01028	-0.00024	0.00085
#2	0.01187	0.00168	0.00148	-0.00029	-0.01216	0.00000	-0.01414	0.00072	0.00047
Mean	0.01305	0.00168	0.00127	-0.00029	-0.01337	-0.00001	-0.01221	0.00024	0.00066
SD	0.00168	0.00000	0.00030	0.00000	0.00171	0.00000	0.00273	0.00068	0.00027
%RSD	12.85649	0.00001	23.55299	0.01775	12.81967	15.23752	22.32969	282.84271	40.56703

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	-0.42241	-0.00111	-0.00272	0.00129	0.00927	0.00285	-0.00038	-0.00462
#2	-0.39421	-0.00111	-0.00136	0.00283	0.00703	-0.00212	-0.00176	-0.00644
Mean	-0.40831	-0.00111	-0.00204	0.00206	0.00815	0.00036	-0.00107	-0.00553
SD	0.01994	0.00000	0.00096	0.00109	0.00158	0.00351	0.00098	0.00129
%RSD	4.88434	0.02590	47.06561	53.03301	19.43936	975.26745	91.59342	23.35591

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:29:01 AM
SampleId1 : Y5799-15 SampleId2 : MH24T3 [SAMPLE]
Analysis commenced : 12/31/2007 8:27:17 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-2.79038	0.00310	0.00265	L -5.59249	0.01147	0.07392	0.10075	0.00050	0.00174
#2	-2.78759	0.00246	0.00363	L -5.58892	0.01147	0.07693	0.10060	0.00037	0.00174
Mean	-2.78899	0.00278	0.00314	L -5.59071	0.01147	0.07543	0.10067	0.00044	0.00174
SD	0.00197	0.00045	0.00069	0.00253	0.00000	0.00213	0.00011	0.00009	0.00000
%RSD	0.07072	16.20939	22.11448	0.04522	0.00058	2.82390	0.10452	21.69444	0.02928

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	279.59087	0.00034	0.00063	0.00086	-0.13614	2.40884	64.29490	0.00265	0.00139
#2	279.46984	0.00034	0.00148	0.00144	-0.14087	2.40837	64.39774	0.00121	0.00120
Mean	279.53035	0.00034	0.00106	0.00115	-0.13850	2.40860	64.34632	0.00193	0.00130
SD	0.08558	0.00000	0.00060	0.00041	0.00335	0.00033	0.07272	0.00102	0.00013
%RSD	0.03062	0.00029	56.63855	35.47405	2.41623	0.01373	0.11301	53.03301	10.41051

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	221.28731	-0.00341	1.37706	5.30021	0.00545	-0.00374	0.00326	0.00234
#2	220.89228	-0.00341	1.37161	5.27399	0.00613	-0.00234	0.00179	0.00455
Mean	221.08980	-0.00341	1.37434	5.28710	0.00579	-0.00304	0.00252	0.00344
SD	0.27933	0.00000	0.00385	0.01854	0.00048	0.00099	0.00104	0.00156
%RSD	0.12634	0.08169	0.28004	0.35060	8.21202	32.49809	41.37520	45.33167

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:31:05 AM
SampleId1 : Y5799-16 SampleId2 : MH24T4 [SAMPLE]
Analysis commenced : 12/31/2007 8:29:25 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-2.83844	0.00445	0.01093	L -5.69291	0.01200	0.08999	0.10179	0.00050	0.00228
#2	-2.85166	-0.00376	0.01392	L -5.71496	0.01174	0.09203	0.10216	0.00057	0.00228
Mean	-2.84505	0.00035	0.01243	L -5.70394	0.01187	0.09101	0.10198	0.00054	0.00228
SD	0.00935	0.00580	0.00212	0.01559	0.00019	0.00145	0.00026	0.00005	0.00000
%RSD	0.32877	1677.36396	17.05189	0.27327	1.58664	1.58980	0.25797	8.86855	-0.01015

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	284.71926	-0.00033	0.00190	0.00164	0.05730	2.45650	65.61383	0.00362	0.00030
#2	285.63292	0.00034	0.00190	0.00203	0.05514	2.46250	65.83751	0.00362	0.00048
Mean	285.17609	0.00000	0.00190	0.00183	0.05622	2.45950	65.72567	0.00362	0.00039
SD	0.64606	0.00048	0.00000	0.00027	0.00152	0.00424	0.15817	0.00000	0.00013
%RSD	0.22655	34464.09998	0.00000	14.87027	2.70893	0.17256	0.24064	0.00000	34.23648

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	226.01037	-0.00339	1.40427	5.44259	0.00665	-0.00111	0.01071	0.01104
#2	227.39699	-0.00449	1.41244	5.46212	0.00351	-0.00520	0.01590	0.01294
Mean	226.70368	-0.00394	1.40835	5.45235	0.00508	-0.00316	0.01330	0.01199
SD	0.98049	0.00078	0.00577	0.01381	0.00222	0.00289	0.00367	0.00134
%RSD	0.43250	19.77503	0.40985	0.25331	43.73064	91.50770	27.59432	11.21255

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:33:02 AM
SampleId1 : Y5799-17 SampleId2 : MH24W5 [SAMPLE]
Analysis commenced : 12/31/2007 8:31:26 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-2.85134	-0.00428	0.00518	L -5.71984	0.01517	0.09806	0.10179	0.00050	0.00288
#2	-2.85255	-0.00336	-0.00147	L -5.72061	0.01306	0.09303	0.10164	0.00050	0.00174
Mean	-2.85194	-0.00382	0.00185	L -5.72023	0.01411	0.09554	0.10172	0.00050	0.00231
SD	0.00086	0.00065	0.00471	0.00054	0.00149	0.00355	0.00011	0.00000	0.00081
%RSD	0.03001	16.97176	253.81329	0.00948	10.57216	3.71566	0.10345	0.00006	34.99219

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	286.10992	-0.00168	0.00063	0.00164	-0.11946	2.46797	66.03419	0.00362	0.00026
#2	286.23096	-0.00168	0.00148	0.00144	-0.13405	2.46796	66.01620	0.00458	0.00044
Mean	286.17044	-0.00168	0.00106	0.00154	-0.12675	2.46796	66.02520	0.00410	0.00035
SD	0.08558	0.00000	0.00060	0.00014	0.01032	0.00000	0.01273	0.00068	0.00013
%RSD	0.02991	0.00002	56.62278	8.88079	8.14029	0.00017	0.01927	16.63781	37.78225

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	227.33423	-0.00446	1.39883	5.49964	0.01084	-0.00189	-0.00571	0.01062
#2	227.58029	-0.00446	1.39611	5.50016	0.00518	0.00342	-0.00680	0.00119
Mean	227.45726	-0.00446	1.39747	5.49990	0.00801	0.00077	-0.00626	0.00590
SD	0.17400	0.00000	0.00192	0.00036	0.00400	0.00375	0.00077	0.00667
%RSD	0.07650	0.01717	0.13770	0.00661	49.91914	489.31464	12.34879	112.99140

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:35:17 AM
SampleId1 : Y5799-18 SampleId2 : MH24W6 [SAMPLE]
Analysis commenced : 12/31/2007 8:33:33 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-2.74663	0.00250	0.00925	L -5.51429	0.01095	0.10505	0.09971	0.00057	0.00286
#2	-2.75424	-0.00726	0.01670	L -5.52627	0.00831	0.09806	0.09956	0.00057	0.00285
Mean	-2.75044	-0.00238	0.01297	L -5.52028	0.00963	0.10155	0.09963	0.00057	0.00285
SD	0.00538	0.00690	0.00526	0.00847	0.00186	0.00494	0.00011	0.00000	0.00000
%RSD	0.19555	289.81685	-40.55352	0.15337	19.36554	4.86738	0.10562	0.05126	0.08166

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	275.64668	-0.00033	-0.00021	0.00183	0.02706	2.38393	64.70369	0.00265	0.00029
#2	276.25659	-0.00033	0.00021	0.00145	0.04875	2.38811	64.55971	0.00121	0.00048
Mean	275.95164	-0.00033	0.00000	0.00164	0.03790	2.38602	64.63170	0.00193	0.00039
SD	0.43126	0.00000	0.00030	0.00027	0.01534	0.00295	0.10181	0.00102	0.00014
%RSD	0.15628	0.08263	44365.24027	16.59822	40.46127	0.12372	0.15752	53.03301	35.55549

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	222.46610	-0.00342	1.35937	5.45595	0.00497	-0.00452	0.00714	0.01031
#2	222.11553	-0.00453	1.36345	5.43591	0.01001	-0.00670	0.00924	0.02042
Mean	222.29082	-0.00397	1.36141	5.44593	0.00749	-0.00561	0.00819	0.01536
SD	0.24789	0.00079	0.00289	0.01417	0.00356	0.00154	0.00148	0.00715
%RSD	0.11152	19.87052	0.21203	0.26028	47.57077	27.46387	18.08492	46.53332

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:37:15 AM
SampleId1 : PBW SampleId2 : PBW [FLEXQC]
Analysis commenced : 12/31/2007 8:35:43 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-0.00225	0.00340	-0.00578	0.00079	-0.00093	0.09095	-0.00082	0.00050	-0.00057
#2	0.00381	0.00029	-0.00205	-0.00120	-0.00093	0.09095	-0.00074	0.00050	0.00000
Mean	0.00078	0.00184	-0.00392	-0.00020	-0.00093	0.09095	-0.00078	0.00050	-0.00029
SD	0.00428	-0.00220	0.00264	0.00141	0.00000	0.00000	0.00005	0.00000	0.00040
%RSD	548.72638	119.45911	67.53689	695.08256	0.38637	0.00000	6.73435	0.00000	141.60382

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	0.03085	0.00168	-0.00275	-0.00068	-0.00242	0.00046	0.00000	-0.00024	0.00047
#2	0.02848	0.00302	-0.00021	-0.00048	-0.00242	-0.00046	-0.00129	0.00169	0.00028
Mean	0.02966	0.00235	-0.00148	-0.00058	-0.00242	0.00000	-0.00064	0.00072	0.00038
SD	0.00168	0.00095	0.00179	0.00014	0.00000	0.00065	0.00091	0.00136	0.00013
%RSD	5.65685	40.39276	121.16535	23.56725	0.15610	62509.41060	141.42136	188.56181	35.52228

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	-0.49671	-0.00222	0.00136	0.00488	0.01252	-0.00413	-0.00614	-0.00561
#2	-0.61470	-0.00222	0.00135	0.00437	0.00193	-0.00190	-0.00391	-0.00112
Mean	-0.55570	-0.00222	0.00136	0.00463	0.00722	-0.00302	-0.00503	-0.00336
SD	0.08343	0.00000	0.00000	0.00036	0.00748	0.00158	0.00158	0.00317
%RSD	15.01372	0.00133	0.13535	7.85674	103.59239	52.38915	31.50005	94.43587

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:39:28 AM
SampleId1 : LCSW SampleId2 : LCSW [FLEXQC]
Analysis commenced : 12/31/2007 8:37:36 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	1.06646	0.99781	1.02298	1.08691	1.04422	2.37674	0.54355	0.50274	0.53413
#2	1.06703	1.00396	1.02931	1.08816	1.04581	2.35670	0.54288	0.50294	0.53242
Mean	1.06675	1.00089	1.02615	1.08753	1.04501	2.36672	0.54322	0.50284	0.53328
SD	0.00041	0.00435	0.00448	0.00088	0.00112	0.01417	0.00047	0.00014	0.00121
%RSD	0.03806	0.43443	0.43644	0.08104	0.10703	0.59886	0.08717	0.02828	0.22698

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	10.38493	0.51073	0.50676	0.44590	5.01665	0.51380	5.64983	0.51658	0.51035
#2	10.36831	0.51073	0.50633	0.44475	4.98751	0.51425	5.64726	0.51466	0.50731
Mean	10.37662	0.51073	0.50654	0.44533	5.00208	0.51402	5.64854	0.51562	0.50883
SD	0.01175	0.00000	0.00030	0.00082	0.02060	0.00032	0.00182	0.00136	0.00215
%RSD	0.11320	0.00005	0.05895	0.18386	0.41188	0.06184	0.03219	0.26446	0.42315

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	8.36023	0.54000	0.99779	9.60321	1.09044	1.08596	1.00439	1.03226
#2	8.33275	0.53889	0.99779	9.55393	1.09733	1.08439	0.99506	1.04641
Mean	8.34649	0.53945	0.99779	9.57857	1.09389	1.08518	0.99972	1.03934
SD	0.01943	0.00078	0.00000	0.03485	0.00487	0.00111	0.00659	0.01001
%RSD	0.23284	0.14502	0.00000	0.36381	0.44525	0.10231	0.65960	0.96278

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:41:34 AM
SampleId1 : Y5865-01 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 8:39:52 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00825	0.00230	-0.00250	0.00035	0.00433	0.18213	0.01659	0.00050	0.00052
#2	0.00825	0.00187	-0.00401	-0.00049	0.00433	0.18008	0.01652	0.00050	0.00052
Mean	0.00825	0.00208	-0.00325	-0.00007	0.00433	0.18111	0.01656	0.00050	0.00052
SD	0.00000	0.00030	0.00106	0.00059	0.00000	0.00145	0.00005	0.00000	0.00000
%RSD	0.00000	14.46062	32.69512	879.64166	0.03920	0.79898	0.31780	0.05801	0.15052

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	11.20366	0.00772	0.00105	0.00011	0.33597	0.01439	2.76257	0.00844	-0.00040
#2	11.28672	0.00840	0.00148	-0.00028	0.34326	0.01486	2.77285	0.00940	-0.00002
Mean	11.24519	0.00806	0.00127	-0.00009	0.33962	0.01463	2.76771	0.00892	-0.00021
SD	0.05873	0.00047	0.00030	0.00027	0.00515	0.00033	0.00727	0.00068	0.00027
%RSD	0.52229	5.89016	23.60950	316.08205	1.51758	2.24898	0.26274	7.64440	129.93183

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.86294	0.00338	0.09524	0.64996	0.00478	-0.00184	0.00031	-0.00391
#2	5.71027	0.00449	0.09660	0.65870	0.00259	-0.00201	-0.00359	-0.00421
Mean	5.78661	0.00394	0.09592	0.65433	0.00368	-0.00193	-0.00164	-0.00406
SD	0.10795	0.00078	0.00096	0.00618	0.00154	0.00012	0.00276	0.00022
%RSD	1.86558	19.92575	1.00219	0.94429	41.91816	6.10745	168.42676	5.33260

Method : ILM053. File : P2123107 Printed : 12/31/2007 8:43:32 AM
SampleId1 : Y5865-01D SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 8:41:51 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00445	0.00237	-0.00121	-0.00100	0.00539	0.25952	0.01689	0.00050	0.00052
#2	0.00546	-0.00851	0.00032	0.00220	0.00302	0.26655	0.01689	0.00043	0.00052
Mean	0.00495	-0.00307	-0.00044	0.00060	0.00421	0.26304	0.01689	0.00047	0.00052
SD	0.00071	0.00770	0.00108	0.00227	0.00168	0.00497	0.00000	0.00005	-0.00000
%RSD	14.34709	250.79813	242.05601	378.36183	39.85450	1.88951	0.00000	10.11080	0.20197

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	11.29384	0.00571	-0.00021	0.00069	0.34824	0.01532	2.84741	0.00988	0.00093
#2	11.24875	0.00504	0.00105	0.00069	0.35798	0.01486	2.86926	0.00844	0.00017
Mean	11.27130	0.00537	0.00042	0.00069	0.35311	0.01509	2.85834	0.00916	0.00055
SD	0.03188	0.00048	0.00090	0.00000	0.00689	0.00032	0.01545	0.00102	0.00054
%RSD	0.28287	8.83950	213.83750	0.03014	1.95079	2.14918	0.54063	11.16484	96.83618

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	6.16837	0.00116	0.09116	0.66179	0.00909	-0.00603	-0.00085	-0.00138
#2	5.94895	0.00116	0.09116	0.65665	0.00136	0.00263	-0.00390	0.00242
Mean	6.05866	0.00116	0.09116	0.65922	0.00522	-0.00170	-0.00238	0.00052
SD	0.15515	0.00000	0.00000	0.00363	0.00546	0.00612	0.00216	0.00269
%RSD	2.56082	0.02426	0.00101	0.55135	104.59177	359.72928	90.70904	516.12526

Method : ILM053. File : P2123107 Printed : 12/31/2007 8:46:07 AM
SampleId1 : Y5865-01L SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 8:43:47 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00775	-0.00190	-0.00473	0.00136	0.00198	0.14015	0.00313	0.00057	-0.00058
#2	0.00567	0.00616	-0.00442	0.00032	0.00171	0.12300	0.00298	0.00050	0.00056
Mean	0.00671	0.00213	-0.00458	0.00084	0.00184	0.13158	0.00305	0.00054	-0.00001
SD	0.00147	0.00570	0.00022	0.00074	0.00019	0.01212	0.00011	0.00005	0.00081
%RSD	21.93165	267.25449	4.86371	88.03377	10.11137	9.21459	3.44930	8.94052	8017.30110

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.55351	0.00101	-0.00021	-0.00048	0.06393	0.00324	0.64790	0.00217	0.00068
#2	2.50131	0.00101	0.00063	-0.00009	0.06876	0.00325	0.64147	0.00265	0.00011
Mean	2.52741	0.00101	0.00021	-0.00029	0.06635	0.00325	0.64468	0.00241	0.00039
SD	0.03692	0.00000	0.00060	0.00027	0.00342	0.00000	0.00454	0.00034	0.00040
%RSD	1.46069	0.05446	283.91895	94.96985	5.15346	0.05070	0.70499	14.14214	101.88465

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.80436	-0.00221	0.02721	0.13647	0.00563	-0.00077	-0.00436	-0.00492
#2	0.88094	0.00001	0.02449	0.13596	0.00820	-0.00362	-0.01102	-0.00112
Mean	0.84265	-0.00110	0.02585	0.13621	0.00691	-0.00220	-0.00769	-0.00302
SD	0.05416	0.00157	0.00192	0.00036	0.00182	0.00201	0.00471	0.00269
%RSD	6.42679	143.13244	7.44379	0.26683	26.34708	91.69787	61.28783	88.83663

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:50:16 AM
SampleId1 : Y5865-01S SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 8:46:28 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.05376	0.05644	0.01440	0.05947	0.11221	2.10906	2.25711	0.05441	0.05528
#2	0.05247	0.05304	0.02059	0.05785	0.11274	2.10887	2.26165	0.05441	0.05414
Mean	0.05311	0.05474	0.01749	0.05866	0.11248	2.10897	2.25938	0.05441	0.05471
SD	0.00091	0.00241	0.00438	0.00115	0.00037	0.00014	0.00321	0.00000	0.00081
%RSD	1.71999	4.40148	25.02458	1.95469	0.33308	0.00640	0.14205	0.00267	1.47696

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	10.83583	0.21714	0.52663	0.23348	1.40543	0.54188	2.83584	0.53973	0.03129
#2	10.86905	0.21646	0.52367	0.23444	1.39570	0.54280	2.84741	0.54165	0.03091
Mean	10.85244	0.21680	0.52515	0.23396	1.40057	0.54234	2.84162	0.54069	0.03110
SD	0.02349	0.00048	0.00209	0.00068	0.00688	0.00065	0.00818	0.00136	0.00027
%RSD	0.21648	0.21975	0.39876	0.29133	0.49131	0.11994	0.28790	0.25220	0.86123

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	5.42572	0.55697	0.59014	0.63095	0.06222	0.05845	0.01759	0.01280
#2	5.35601	0.56252	0.59014	0.64328	0.06317	0.05554	0.02002	0.02087
Mean	5.39087	0.55974	0.59014	0.63711	0.06270	0.05699	0.01880	0.01684
SD	0.04929	0.00392	0.00000	0.00872	0.00067	0.00206	0.00172	0.00570
%RSD	0.91429	0.70107	0.00016	1.36915	1.07293	3.60697	9.13456	33.88493

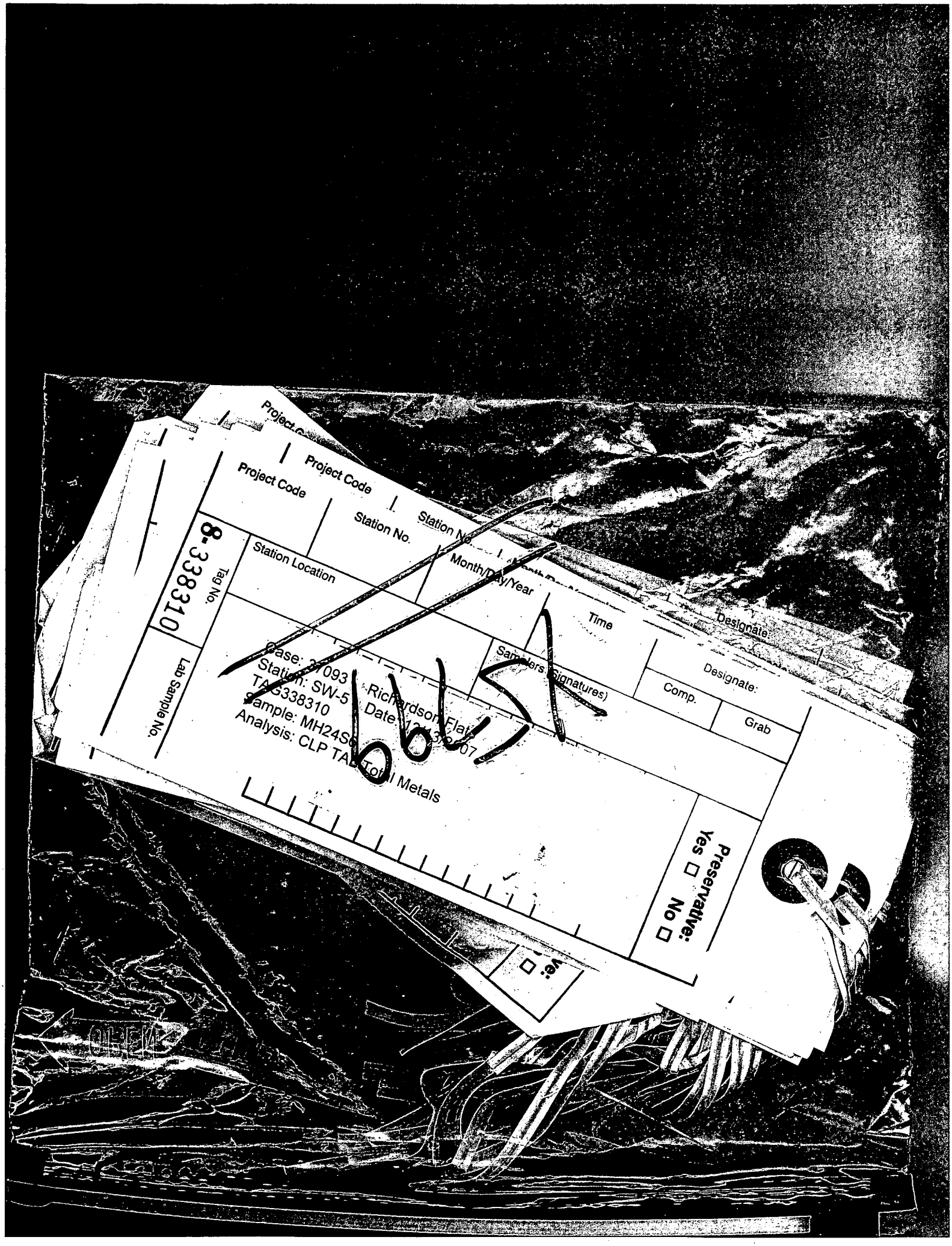
Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:55:10 AM
SampleId1 : CCV SampleId2 : CCV [FLEXQC]
Analysis commenced : 12/31/2007 8:53:35 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

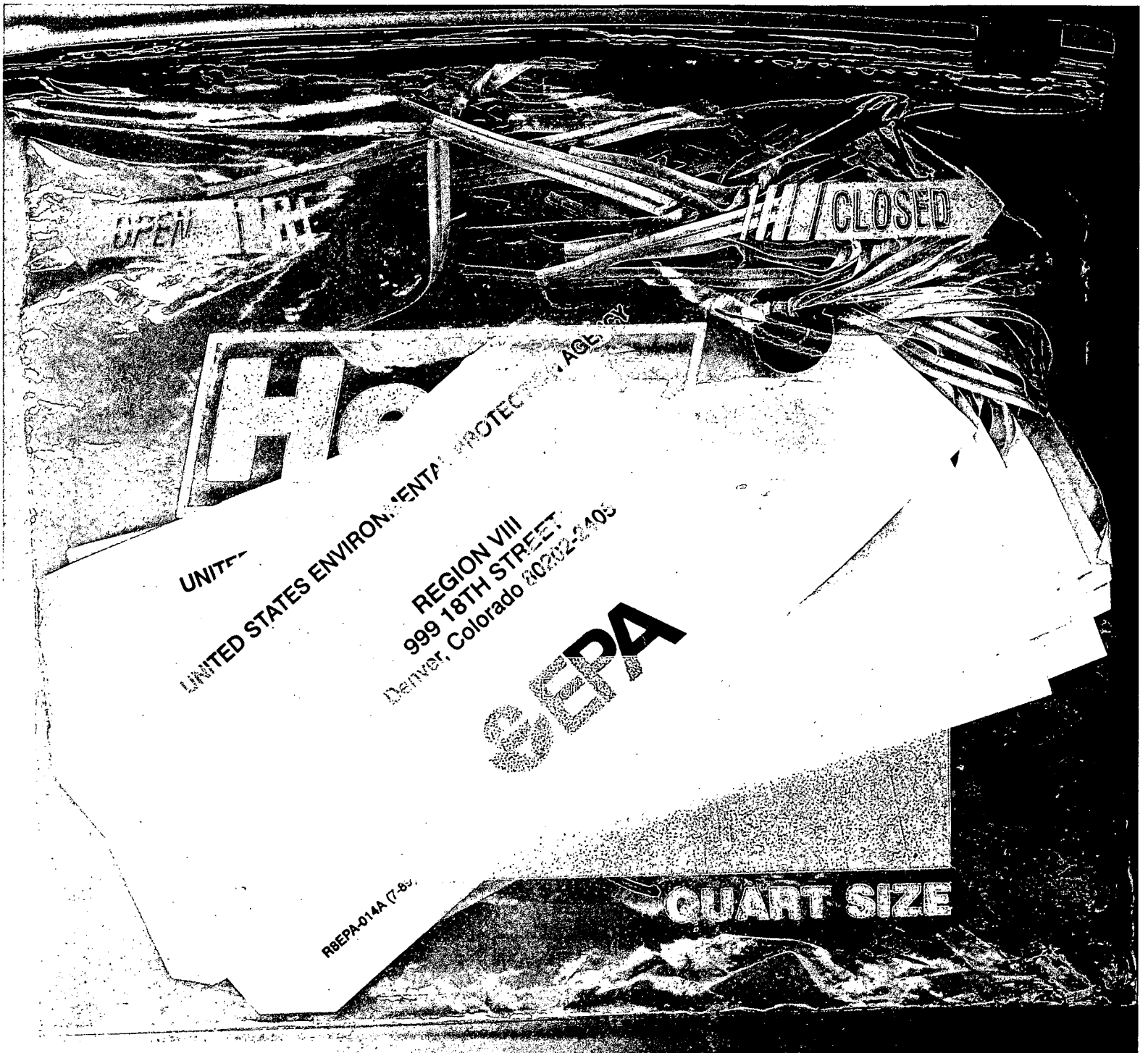
Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	5.38619	5.05619	5.05745	5.44084	5.27111	9.25615	10.38118	0.25879	2.65884
#2	5.40522	5.02706	5.11477	5.46532	5.26716	9.29319	10.39152	0.25912	2.66227
Mean	5.39570	5.04162	5.08611	5.45308	5.26913	9.27467	10.38635	0.25895	2.66055
SD	0.01345	0.02060	0.04053	0.01731	0.00279	0.02619	0.00731	0.00024	0.00243
%RSD	0.24927	0.40867	0.79692	0.31745	0.05298	0.28238	0.07041	0.09100	0.09117

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	25.50667	1.01854	2.54816	1.14168	5.10162	2.54647	23.75627	2.59257	1.28492
#2	25.54227	1.01652	2.54942	1.14322	5.11623	2.55110	23.79740	2.60124	1.28872
Mean	25.52447	1.01753	2.54879	1.14245	5.10892	2.54878	23.77684	2.59690	1.28682
SD	0.02517	0.00143	0.00090	0.00109	0.01033	0.00327	0.02909	0.00614	0.00269
%RSD	0.09862	0.14014	0.03512	0.09551	0.20214	0.12840	0.12234	0.23629	0.20895

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	23.64562	2.69327	2.42557	23.41030	5.47368	5.42607	5.03620	5.06806
#2	23.91126	2.69660	2.42966	23.33782	5.48465	5.45729	5.05228	5.14597
Mean	23.77844	2.69494	2.42762	23.37406	5.47917	5.44168	5.04424	5.10702
SD	0.18784	0.00235	0.00289	0.05125	0.00776	0.02208	0.01137	0.05509
%RSD	0.78995	0.08734	0.11902	0.21925	0.14161	0.40570	0.22546	1.07871


Project Code
Station No.
Station Location
Month/Day/Year
Time
Designate:
Tag No.
8-338310
Lab Sample No.
Samplers (Signatures)
Comp.
Grab
Case: 37093
Station: SW-5
TAS338310
Sample: MH24S
Analysis: CLP TAL Total Metals
Richardson Flat
Date: 12/13/2007
Preservative:
Yes
No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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18TH STREET
Denver, Colorado 80202-2405
EPA
R8EPA-014A (7-8
QUART SIZE

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338305

Station Location

Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-3 Date: 12/13/2007
TAG338305
Sample: MH24S1
Analysis: CLP TAL Dissolved Metals

Preservative: Yes ☐ No ☐

Lab Sample No.

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338306

Station Location

Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-3 Date: 12/13/2007
TAG338306
Sample: MH24S2
Analysis: CLP TAL Total Metals

Preservative: Yes ☐ No ☐

Lab Sample No.

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338303

Station Location

Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-2 Date: 12/13/2007
TAG338303
Sample: MH24R9
Analysis: CLP TAL Dissolved Metals

Preservative: Yes ☐ No ☐

Lab Sample No.

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338304

Station Location

Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-2 Date: 12/13/2007
TAG338304
Sample: MH24S0
Analysis: CLP TAL Total Metals

Preservative: Yes ☐ No ☐

Lab Sample No.

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EPA

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338309

Station Location

Samplers (Signatures)

Lab Sample No.

Case: 37093 Richardson Flats
Station: SW-5 Date: 12/13/2007
TAG338309
Sample: MH24S5
Analysis: CLP TAL Dissolved Metals

Preservative: Yes ☐ No ☐

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338307

Station Location

Samplers (Signatures)

Lab Sample No.

Case: 37093 Richardson Flats
Station: SW-4 Date: 12/13/2007
TAG338307
Sample: MH24S3
Analysis: CLP TAL Dissolved Metals

Preservative: Yes ☐ No ☐

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338310

Station Location

Samplers (Signatures)

Lab Sample No.

Case: 37093 Richardson Flats
Station: SW-5 Date: 12/13/2007
TAG338310
Sample: MH24S6
Analysis: CLP TAL Total Metals

Preservative: Yes ☐ No ☐

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338308

Station Location

Samplers (Signatures)

Lab Sample No.

Case: 37093 Richardson Flats
Station: SW-4 Date: 12/13/2007
TAG338308
Sample: MH24S4
Analysis: CLP TAL Total Metals

ANALYZED

Preservative: Yes ☐ No ☐

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EPA

R8EPA-014A (7-89)

Project Code | Station No. | Month/Day/Year | Time | Designate: Comp. Grab

Tag No. 8-338315

Station Location | Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-8 Date: 12/13/2007
TAG338315
Sample: MH24T1
Analysis: CLP TAL Dissolved Metals

Preservative: Yes ☐ No ☐

Lab Sample No.

Project Code | Station No. | Month/Day/Year | Time | Designate: Comp. Grab

Tag No. 8-338313

Station Location | Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-7 Date: 12/13/2007
TAG338313
Sample: MH24S9
Analysis: CLP TAL Dissolved Metals

Preservative: Yes ☐ No ☐

Lab Sample No.

Project Code | Station No. | Month/Day/Year | Time | Designate: Comp. Grab

Tag No. 8-338316

Station Location | Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-8 Date: 12/13/2007
TAG338316
Sample: MH24T2
Analysis: CLP TAL Total Metals

ANALYSES

Preservative: Yes ☐ No ☐

Lab Sample No.

Project Code | Station No. | Month/Day/Year | Time | Designate: Comp. Grab

Tag No. 8-338314

Station Location | Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-7 Date: 12/13/2007
TAG338314
Sample: MH24T0
Analysis: CLP TAL Total Metals

Preservative: Yes ☐ No ☐

Lab Sample No.

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R8EPA-014A (7-89)

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338329

Station Location

Samplers (Signatures)

Lab Sample No.

Case: 37093 Richardson Flats
Station: SW-15 Date: 12/13/2007
TAG338329
Sample: MH24W5
Analysis: CLP TAL Dissolved Metals

ANALYSES

Preservative: Yes ☐ No ☐

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338317

Station Location

Samplers (Signatures)

Lab Sample No.

Case: 37093 Richardson Flats
Station: SW-9 Date: 12/13/2007
TAG338317
Sample: MH24T3
Analysis: CLP TAL Dissolved Metals

ANALYSES

Preservative: Yes ☐ No ☐

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338

Station Location

Samplers (Signatures)

Case: 37093 Richardson Flats
Station: SW-15 Date: 12/13/2007
TAG338330
Sample: MH24W6
Analysis: CLP TAL Total Metals

ANALYSES

BOD Anions
Solids (TSS) (TDS) (SS)
COD, TOC, Nutrients
Phenolics

Preservative: Yes ☐ No ☐

Project Code	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab

Tag No. 8-338318

Station Location

Samplers (Signatures)

Lab Sample No.

Case: 37093 Richardson Flats
Station: SW-9 Date: 12/13/2007
TAG338318
Sample: MH24T4
Analysis: CLP TAL Total Metals

ANALYSES

Preservative: Yes ☐ No ☐

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII
999 18TH STREET
Denver, Colorado 80202-2405

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII
999 18TH STREET
Denver, Colorado 80202-2405

R8EPA-014A (7-89)

EPA

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REGION VIII
999 18TH STREET
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R8EPA-014A (7-89)

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII
999 18TH STREET
Denver, Colorado 80202-2405

R8EPA-014A (7-89)

EPA

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:57:18 AM
SampleId1 : CCB SampleId2 : CCB [FLEXQC]
Analysis commenced : 12/31/2007 8:55:43 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00093	0.00226	-0.00076	0.00239	-0.00330	0.10999	0.00097	0.00070	0.00058
#2	0.00380	0.00467	-0.00277	0.00083	-0.00198	0.11204	0.00089	0.00070	0.00057
Mean	0.00237	0.00347	-0.00176	0.00161	-0.00264	0.11101	0.00093	0.00070	0.00057
SD	0.00203	0.00170	0.00142	0.00110	0.00093	0.00145	0.00005	0.00000	0.00000
%RSD	85.70991	49.13935	80.54948	68.51328	35.12536	1.30355	5.65685	0.04139	0.40944

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	0.00949	-0.00034	0.00021	-0.00106	-0.02186	-0.00001	-0.00771	0.00072	0.00028
#2	0.00949	0.00168	0.00021	-0.00087	0.00000	0.00000	-0.00771	0.00072	0.00009
Mean	0.00949	0.00067	0.00021	-0.00096	-0.01093	0.00000	-0.00771	0.00072	0.00019
SD	0.00000	0.00143	0.00000	0.00014	0.01545	0.00001	0.00000	0.00000	0.00013
%RSD	0.00000	211.98929	0.00000	14.18540	141.41474	148.81443	0.00000	0.00000	70.39170

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	-0.35160	-0.00111	0.00272	-0.00129	0.00339	0.00189	-0.00067	-0.00080
#2	-0.37391	-0.00222	0.00272	-0.00077	0.00977	-0.00363	-0.00563	-0.00134
Mean	-0.36276	-0.00166	0.00272	-0.00103	0.00658	-0.00087	-0.00315	-0.00107
SD	0.01578	0.00079	0.00000	0.00036	0.00451	0.00391	0.00350	0.00038
%RSD	4.34891	47.27570	0.10124	35.35534	68.60429	450.14525	111.29959	35.43464

Method : ILMO53. File : P2123107 Printed : 12/31/2007 8:59:21 AM
SampleId1 : Y5865-02 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 8:57:47 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00581	-0.00034	-0.00172	0.00351	0.00292	0.11400	0.03639	0.00064	0.00043
#2	0.00861	0.00214	-0.00387	0.00055	0.00240	0.10597	0.03639	0.00064	0.00043
Mean	0.00721	0.00090	-0.00279	0.00203	0.00266	0.10998	0.03639	0.00064	0.00043
SD	0.00198	0.00175	0.00152	0.00210	0.00037	0.00568	0.00000	0.00000	0.00000
%RSD	27.43996	194.63470	54.39247	103.29344	14.02127	5.16450	0.00000	0.00002	0.12195

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	23.72680	0.10312	0.00061	0.00340	0.92662	0.02006	7.45211	0.08172	0.00049
#2	23.77901	0.10312	0.00061	0.00340	0.92173	0.02005	7.41869	0.08316	0.00068
Mean	23.75291	0.10312	0.00061	0.00340	0.92417	0.02006	7.43540	0.08244	0.00058
SD	0.03692	0.00000	0.00000	0.00000	0.00346	0.00000	0.02363	0.00102	0.00013
%RSD	0.15542	0.00000	0.05911	0.00305	0.37468	0.00394	0.31786	1.24054	22.91730

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	27.52466	-0.00097	0.04198	1.69700	0.00774	0.00156	-0.00373	-0.00071
#2	27.44524	-0.00097	0.04062	1.69649	0.00421	-0.00112	-0.00911	-0.00125
Mean	27.48495	-0.00097	0.04130	1.69674	0.00598	0.00022	-0.00642	-0.00098
SD	0.05616	0.00000	0.00096	0.00036	0.00249	0.00190	0.00380	0.00038
%RSD	0.20431	0.03933	2.32957	0.02142	41.74095	851.03640	59.21376	38.58875

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:01:38 AM
SampleId1 : Y5865-03 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 8:59:46 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00603	-0.00120	-0.00728	0.00110	0.00250	0.09993	0.04784	0.00070	0.00115
#2	0.00416	0.00622	-0.00600	-0.00134	0.00118	0.10093	0.04792	0.00070	0.00058
Mean	0.00510	0.00251	-0.00664	-0.00012	0.00184	0.10043	0.04788	0.00070	0.00087
SD	0.00132	0.00525	0.00091	0.00173	0.00093	0.00071	0.00005	0.00000	0.00041
%RSD	25.89405	209.01885	13.66217	1391.38707	50.70765	0.70698	0.10988	0.00001	46.65592

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	48.68053	0.00034	0.01078	0.00993	-0.06847	1.78158	17.72207	0.00554	0.00008
#2	48.85377	0.00101	0.01036	0.01012	-0.06359	1.78482	17.74650	0.00410	0.00046
Mean	48.76715	0.00067	0.01057	0.01003	-0.06603	1.78320	17.73428	0.00482	0.00027
SD	0.12250	0.00048	0.00030	0.00014	0.00345	0.00229	0.01727	0.00102	0.00027
%RSD	0.25119	70.69164	2.82549	1.36112	5.23034	0.12838	0.09739	21.21320	99.73696

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	272.88671	-0.00052	0.04218	39.12048	0.00694	-0.00182	-0.00496	-0.00845
#2	272.78495	-0.00052	0.04218	39.09632	0.01249	-0.00825	-0.00262	-0.00769
Mean	272.83583	-0.00052	0.04218	39.10840	0.00972	-0.00504	-0.00379	-0.00807
SD	0.07195	0.00000	0.00000	0.01708	0.00392	0.00454	0.00165	0.00054
%RSD	0.02637	0.03343	0.00218	0.04368	40.33395	90.22841	43.53306	6.65739

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:03:37 AM
SampleId1 : Y5865-04 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 9:01:57 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00524	-0.00397	-0.00285	0.00341	-0.00436	0.10700	0.07463	0.00070	0.00058
#2	0.00603	-0.00764	-0.00313	0.00249	-0.00304	0.11306	0.07471	0.00070	0.00000
Mean	0.00563	-0.00580	-0.00299	0.00295	-0.00370	0.11003	0.07467	0.00070	0.00029
SD	0.00056	0.00260	0.00020	0.00065	0.00093	0.00429	0.00005	0.00000	0.00040
%RSD	9.90850	44.77395	6.65272	21.89301	25.26180	3.89621	0.07046	0.04100	139.02252

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	110.39205	0.00168	0.00105	0.00472	-0.02784	0.01048	49.39709	0.01133	0.00047
#2	110.37306	0.00101	0.00148	0.00492	-0.03243	0.01001	49.61178	0.00940	0.00009
Mean	110.38255	0.00134	0.00127	0.00482	-0.03014	0.01024	49.50444	0.01037	0.00028
SD	0.01342	0.00047	0.00030	0.00014	0.00325	0.00033	0.15180	0.00136	0.00027
%RSD	0.01216	35.31437	23.67553	2.82694	10.76761	3.25200	0.30664	13.15547	97.38523

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	214.79626	-0.00170	0.02585	101.64663	0.00993	0.00015	-0.00281	-0.00286
#2	215.42274	-0.00280	0.02449	101.98176	0.00640	0.00054	-0.00686	-0.00126
Mean	215.10950	-0.00225	0.02517	101.81420	0.00817	0.00035	-0.00484	-0.00206
SD	0.44299	0.00078	0.00096	0.23698	0.00249	0.00028	0.00286	0.00113
%RSD	0.20594	34.68557	3.81895	0.23275	30.53846	79.36278	59.16756	54.89445

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:05:27 AM
SampleId1 : Y5865-05 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 9:03:53 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00574	0.00317	0.00119	-0.00066	0.00408	0.10100	0.07404	0.00077	0.00001
#2	0.00553	0.00296	-0.00171	0.00313	0.00171	0.10200	0.07381	0.00070	0.00001
Mean	0.00563	0.00306	-0.00026	0.00123	0.00289	0.10150	0.07392	0.00074	0.00001
SD	0.00015	0.00015	0.00205	0.00267	0.00167	0.00071	0.00016	0.00005	0.00000
%RSD	2.70232	4.92768	804.09522	216.70688	57.89947	0.69953	0.21352	6.42031	9.47314

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	83.39978	0.00235	0.00233	-0.00048	-0.08495	0.00331	26.20131	0.00313	0.00007
#2	83.04855	0.00101	0.00317	-0.00049	-0.09715	0.00377	26.15118	0.00362	0.00007
Mean	83.22417	0.00168	0.00275	-0.00048	-0.09105	0.00354	26.17624	0.00337	0.00007
SD	0.24835	0.00095	0.00060	0.00000	0.00863	0.00032	0.03545	0.00034	0.00000
%RSD	0.29842	56.53962	21.76214	0.05337	9.47314	9.15734	0.13543	10.10153	2.58123

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	127.13403	-0.00245	0.03265	7.96483	0.00591	-0.00393	-0.00290	0.00324
#2	126.37703	-0.00245	0.03538	7.93399	0.01078	-0.00069	-0.00476	-0.00018
Mean	126.75553	-0.00245	0.03401	7.94941	0.00834	-0.00231	-0.00383	0.00153
SD	0.53528	0.00000	0.00193	0.02181	0.00344	0.00229	0.00131	0.00242
%RSD	0.42229	0.00725	5.66279	0.27433	41.29794	99.01816	34.29687	158.24562

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:07:35 AM
SampleId1 : Y5865-06 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 9:05:57 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00122	-0.00304	-0.00262	-0.00320	0.00144	0.12405	0.00141	0.00064	-0.00057
#2	0.00266	0.00163	-0.00267	0.00143	-0.00066	0.12103	0.00141	0.00064	0.00000
Mean	0.00194	-0.00070	-0.00265	-0.00089	0.00039	0.12254	0.00141	0.00064	-0.00029
SD	0.00102	0.00330	0.00004	0.00327	0.00149	0.00213	0.00000	0.00000	0.00040
%RSD	52.37828	468.41207	1.53728	369.02367	382.95500	1.73825	0.00000	0.00000	140.65173

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	1.22455	0.00302	0.00106	-0.00067	0.01029	0.00138	0.48078	0.00506	0.00048
#2	1.22455	0.00101	-0.00148	-0.00067	0.01030	0.00091	0.48078	0.00410	0.00048
Mean	1.22455	0.00202	-0.00021	-0.00067	0.01029	0.00115	0.48078	0.00458	0.00048
SD	0.00000	0.00143	0.00179	0.00000	0.00000	0.00033	0.00000	0.00068	0.00000
%RSD	0.00000	70.69724	842.03290	0.00002	0.03912	28.54031	0.00000	14.88646	0.00019

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	1.74869	-0.00109	0.02993	0.30609	0.00316	-0.00637	0.00046	-0.00415
#2	1.87915	-0.00109	0.02857	0.30763	0.00193	0.00117	-0.00230	-0.00286
Mean	1.81392	-0.00109	0.02925	0.30686	0.00255	-0.00260	-0.00092	-0.00351
SD	0.09225	0.00000	0.00096	0.00109	0.00087	0.00533	0.00195	0.00091
%RSD	5.08567	0.00004	3.27989	0.35533	34.19173	205.38250	213.12685	26.05227

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:09:36 AM
SampleId1 : Y5865-07 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 9:07:55 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.02555	-0.00244	-0.00209	-0.00078	-0.00092	0.11301	0.14986	0.00077	0.00196
#2	0.02254	0.00224	-0.00338	0.00104	-0.00408	0.11204	0.15045	0.00077	0.00195
Mean	0.02405	-0.00010	-0.00273	0.00013	-0.00250	0.11252	0.15016	0.00077	0.00196
SD	0.00213	0.00331	0.00091	0.00128	0.00224	0.00068	0.00042	0.00000	0.00001
%RSD	8.86522	3385.16591	33.46276	1010.85991	89.42084	0.60690	0.28032	0.03786	0.53478

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	76.59120	0.00034	0.01163	-0.00085	13.42123	2.16354	42.00026	0.00554	0.00229
#2	76.69562	0.00034	0.01332	-0.00046	13.51861	2.16681	42.19823	0.00313	0.00193
Mean	76.64341	0.00034	0.01248	-0.00066	13.46992	2.16518	42.09924	0.00434	0.00211
SD	0.07384	0.00000	0.00120	0.00027	0.06886	0.00231	0.13999	0.00170	0.00025
%RSD	0.09634	0.08194	9.59384	41.85404	0.51120	0.10688	0.33251	39.28371	12.04061

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	527.18178	-0.00127	0.03266	79.85880	0.00788	-0.00511	-0.00087	-0.00269
#2	531.39533	-0.00238	0.02994	80.35688	0.00659	-0.00174	-0.00289	-0.00363
Mean	529.28856	-0.00182	0.03130	80.10784	0.00724	-0.00342	-0.00188	-0.00316
SD	2.97943	0.00079	0.00192	0.35219	0.00091	0.00238	0.00142	0.00066
%RSD	0.56291	43.19272	6.14888	0.43965	12.60952	69.58914	75.66070	20.93098

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:12:02 AM
SampleId1 : Y5865-08 SampleId2 : ZZZZZZ [SAMPLE]
Analysis commenced : 12/31/2007 9:10:18 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3082	Ba4934	Be3130	Cd2265
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02103	-0.00236	-0.00796	0.00205	-0.00198	0.12015	0.15023	0.00077	0.00139
#2	0.01873	-0.00107	-0.00403	-0.00092	-0.00329	0.12220	0.15038	0.00070	0.00081
Mean	0.01988	-0.00172	-0.00599	0.00057	-0.00263	0.12117	0.15031	0.00074	0.00110
SD	0.00162	0.00091	0.00278	0.00210	0.00093	0.00145	0.00011	0.00005	0.00041
%RSD	8.16874	52.91933	46.34661	372.27307	35.29333	1.19427	0.07001	6.37213	37.44364

	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	76.67426	0.00101	0.01248	-0.00104	13.43585	2.16216	42.02725	0.00313	0.00153
#2	76.74071	0.00034	0.01163	-0.00104	13.50155	2.16404	42.13009	0.00313	0.00173
Mean	76.70748	0.00067	0.01205	-0.00104	13.46870	2.16310	42.07867	0.00313	0.00163
SD	0.04699	0.00047	0.00060	0.00000	0.04646	0.00133	0.07272	0.00000	0.00014
%RSD	0.06125	70.48041	4.96260	0.13372	0.34492	0.06129	0.17282	0.00000	8.83033

	Na3302	V_2924	Zn2062	K_7664	z1960	z1961	z2203	z2204
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	527.99293	-0.00460	0.02585	80.03716	0.00766	-0.00075	-0.00312	-0.01038
#2	530.24738	-0.00571	0.02721	80.19445	0.00150	-0.00213	-0.00470	-0.00370
Mean	529.12016	-0.00515	0.02653	80.11581	0.00458	-0.00144	-0.00391	-0.00704
SD	1.59414	0.00079	0.00096	0.11122	0.00436	0.00098	0.00112	0.00472
%RSD	0.30128	15.28182	3.62982	0.13882	95.15821	68.11486	28.60939	67.11185

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:24:33 AM
SampleId1 : CRI SampleId2 : CRI [FLEXQC]
Analysis commenced : 12/31/2007 9:23:00 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00737	0.02382	0.00832	0.04012	0.06518	0.16640	0.22182	0.00522	0.00564
#2	0.01030	0.02057	0.00803	0.03947	0.06089	0.20090	0.22633	0.00528	0.00511
Mean	0.00884	0.02219	0.00817	0.03980	0.06303	0.18365	0.22407	0.00525	0.00537
SD	0.00207	0.00230	0.00021	0.00047	0.00303	0.02439	0.00319	0.00005	0.00038
%RSD	23.47922	10.35462	2.52301	1.16856	4.81272	13.28190	1.42156	0.86018	7.07964

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	4.90962	0.01227	0.04948	0.02403	0.09075	0.01559	4.76493	0.03949	0.00990
#2	4.93042	0.01028	0.05114	0.02382	0.08619	0.01558	4.85639	0.04180	0.00953
Mean	4.92002	0.01127	0.05031	0.02392	0.08847	0.01558	4.81066	0.04065	0.00972
SD	0.01471	0.00141	0.00117	0.00015	0.00322	0.00000	0.06467	0.00163	0.00026
%RSD	0.29899	12.49824	2.32745	0.62334	3.64534	0.02197	1.34439	4.01765	2.68762

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	4.16029	0.05131	0.05898	3.92442	0.04198	0.03922	0.00012	0.01241
#2	3.63922	0.05131	0.05899	4.04121	0.03905	0.03969	0.00462	0.00973
Mean	3.89976	0.05131	0.05898	3.98282	0.04051	0.03945	0.00237	0.01107
SD	0.36845	0.00000	0.00000	0.08258	0.00207	0.00033	0.00318	0.00190
%RSD	9.44812	0.00488	0.00461	2.07338	5.11092	0.84738	134.33341	17.13619

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:26:52 AM
SampleId1 : ICSA SampleId2 : ICSA [FLEXQC]
Analysis commenced : 12/31/2007 9:24:56 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	-0.00443	-0.00099	-0.00135	0.00050	0.00056	245.47519	0.00364	0.00064	-0.00105
#2	-0.00580	0.00325	0.00068	0.00079	-0.00197	245.40296	0.00364	0.00058	0.00000
Mean	-0.00512	0.00113	-0.00033	0.00064	-0.00070	245.43907	0.00364	0.00061	-0.00053
SD	0.00096	0.00300	0.00143	0.00020	0.00179	0.05107	0.00000	0.00005	0.00074
%RSD	18.85618	265.73380	429.53355	31.49146	254.04769	0.02081	0.00000	7.43445	140.15899

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	244.04096	0.03952	0.00269	0.01877	98.73411	0.02245	260.18033	0.01316	0.00363
#2	244.55180	0.04084	0.00227	0.01877	98.87665	0.02252	260.09842	0.01178	0.00420
Mean	244.29638	0.04018	0.00248	0.01877	98.80538	0.02249	260.13938	0.01247	0.00391
SD	0.36122	0.00094	0.00029	0.00000	0.10079	0.00005	0.05792	0.00098	0.00040
%RSD	0.14786	2.33752	11.79203	0.01611	0.10201	0.20520	0.02226	7.85674	10.27414

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	1.14495	-0.00175	0.04488	0.02087	0.00176	-0.00006	-0.03390	0.01490
#2	1.10965	-0.00176	0.04628	0.02404	-0.00059	0.00154	-0.03041	0.01620
Mean	1.12730	-0.00175	0.04558	0.02246	0.00058	0.00074	-0.03215	0.01555
SD	0.02496	0.00001	0.00099	0.00224	0.00166	0.00114	0.00247	0.00092
%RSD	2.21385	0.76944	2.17544	9.98268	284.90286	153.71894	7.67143	5.89083

Method : ILMO53 File : P2123107 Printed : 12/31/2007 9:29:09 AM
SampleId1 : ICSAB SampleId2 : ICSAB [FLEXQC]
Analysis commenced : 12/31/2007 9:27:23 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.09456	0.10154	0.05550	0.04968	0.59180	240.07594	0.53941	0.44580	0.96760
#2	0.10070	0.09337	0.05484	0.05308	0.59585	240.49847	0.54083	0.44401	0.96602
Mean	0.09763	0.09745	0.05517	0.05138	0.59382	240.28721	0.54012	0.44490	0.96681
SD	0.00434	0.00578	0.00047	0.00241	0.00286	0.29878	0.00101	0.00127	0.00111
%RSD	4.44721	5.92992	0.84368	4.69181	0.48178	0.12434	0.18675	0.28440	0.11517

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	239.91494	0.51884	0.48405	0.55402	97.04380	0.51621	254.35266	1.01644	0.21706
#2	238.89788	0.51818	0.48322	0.55718	96.96950	0.51524	254.78950	1.01737	0.21597
Mean	239.40641	0.51851	0.48364	0.55560	97.00665	0.51573	254.57108	1.01691	0.21651
SD	0.71917	0.00047	0.00059	0.00223	0.05254	0.00069	0.30889	0.00065	0.00077
%RSD	0.30040	0.09062	0.12116	0.40204	0.05416	0.13290	0.12134	0.06424	0.35598

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	1.30075	0.48736	1.03300	0.04835	0.04583	0.05243	0.01557	0.07544
#2	1.11454	0.48841	1.02738	0.03725	0.04787	0.05652	0.01123	0.07661
Mean	1.20765	0.48788	1.03019	0.04280	0.04685	0.05447	0.01340	0.07603
SD	0.13167	0.00074	0.00397	0.00785	0.00144	0.00289	0.00307	0.00083
%RSD	10.90298	0.15163	0.38563	18.33240	3.07926	5.31140	22.88205	1.09537

Method : ILMO53. File : P2123107 Printed : 12/31/2007 9:31:19 AM
SampleId1 : CCV SampleId2 : CCV [FLEXQC]
Analysis commenced : 12/31/2007 9:29:42 AM
Dilution ratio : 1.00000 to 1.00000 Tray : Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	5.17891	4.98705	4.99968	5.18096	5.11923	9.63058	10.46271	0.24928	2.54383
#2	5.16328	4.94184	5.03356	5.20294	5.11166	9.56503	10.40873	0.24845	2.53629
Mean	5.17110	4.96445	5.01662	5.19195	5.11544	9.59781	10.43572	0.24886	2.54006
SD	0.01105	0.03197	0.02395	0.01554	0.00536	0.04635	0.03817	0.00059	0.00533
%RSD	0.21365	0.64403	0.47751	0.29937	0.10478	0.48290	0.36577	0.23536	0.20985

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	24.78850	1.00095	2.50067	1.21532	5.00047	2.51690	24.65190	2.51767	1.25210
#2	24.76307	0.99962	2.48949	1.20753	4.96533	2.51412	24.56589	2.51259	1.24877
Mean	24.77578	1.00028	2.49508	1.21142	4.98290	2.51551	24.60890	2.51513	1.25044
SD	0.01798	0.00094	0.00791	0.00551	0.02485	0.00197	0.06081	0.00359	0.00235
%RSD	0.07257	0.09374	0.31689	0.45521	0.49863	0.07820	0.24712	0.14285	0.18805

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	25.58511	2.51226	2.45522	24.12385	5.17916	5.18346	4.94394	5.02751
#2	25.60952	2.50612	2.45381	23.95423	5.17749	5.21725	4.94624	5.07716
Mean	25.59731	2.50919	2.45452	24.03904	5.17833	5.20035	4.94509	5.05233
SD	0.01726	0.00434	0.00099	0.11994	0.00118	0.02389	0.00163	0.03510
%RSD	0.06743	0.17298	0.04040	0.49896	0.02282	0.45942	0.03289	0.69477

Method : ILMO53.
File : P2123107
Printed : 12/31/2007 9:33:32 AM
SampleId1 : CCB
SampleId2 : CCB
[FLEXQC]
Analysis commenced : 12/31/2007 9:31:39 AM
Dilution ratio : 1.00000 to 1.00000
Tray :
Position :

Final concentrations

	As1890 ppm	Tl1908 ppm	Pb2203 ppm	Se1960 ppm	Sb2068 ppm	Al3082 ppm	Ba4934 ppm	Be3130 ppm	Cd2265 ppm
#1	0.00307	0.00415	-0.00252	0.00088	0.00303	0.02267	0.00146	0.00026	-0.00027
#2	-0.00143	-0.00339	-0.00160	0.00539	-0.00101	0.02591	0.00124	0.00026	-0.00027
Mean	0.00082	0.00038	-0.00206	0.00313	0.00101	0.02429	0.00135	0.00026	-0.00027
SD	0.00318	0.00533	0.00065	0.00319	0.00286	0.00229	0.00016	0.00000	0.00000
%RSD	388.90873	1395.57698	31.57266	101.65556	283.90305	9.41449	11.78511	0.00006	0.18663

	Ca3179 ppm	Cr2677 ppm	Co2286 ppm	Cu3247 ppm	Fe2714 ppm	Mn2576 ppm	Mg2790 ppm	Ni2316 ppm	Ag3280 ppm
#1	0.00231	0.00100	0.00104	-0.00042	-0.00350	0.00000	0.00478	0.00115	0.00009
#2	0.00000	0.00100	0.00145	0.00000	0.00118	0.00000	0.00341	0.00346	-0.00009
Mean	0.00116	0.00100	0.00124	-0.00021	-0.00116	0.00000	0.00410	0.00231	0.00000
SD	0.00163	0.00000	0.00029	0.00030	0.00331	0.00000	0.00097	0.00163	0.00013
%RSD	141.42136	0.00001	23.53954	141.44504	284.78031	232.77895	23.57023	70.71068	15574.44461

	Na3302 ppm	V_2924 ppm	Zn2062 ppm	K_7664 ppm	z1960 ppm	z1961 ppm	z2203 ppm	z2204 ppm
#1	0.15888	-0.00102	-0.00281	0.00555	0.00455	-0.00095	-0.00317	-0.00220
#2	0.45782	-0.00102	-0.00281	0.00555	0.00648	0.00484	0.00125	-0.00302
Mean	0.30835	-0.00102	-0.00281	0.00555	0.00552	0.00195	-0.00096	-0.00261
SD	0.21138	0.00000	0.00000	0.00000	0.00137	0.00409	0.00312	0.00058
%RSD	68.55235	0.04028	0.00000	0.00000	24.79898	210.27982	325.32895	22.29196

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092

ICP-2 ANALYSIS RUN LOG

METHOD: ILM05.4

PROJECT No: Y5799 Y5865 Y5882 Y5842

RUN ID: D2123107 DATE: 12 / 31 / 07 ANALYST: B.Ford SUPERVISOR REVIEW

QC/SAMPLE ID	ANALYSIS TIME	STD. REF. No. from Prep. Log	LBP #	PREP DATE	DATE OPENED	COMMENT
STD-S0	6:47	MI10665	135	12/26/07		
STD-S	6:50	MI10322	10	11/12/07		
ICV	6:59	MI10698	147	12/31/07		
ICB	7:01	MI10665	135	12/26/07		
CRI	7:06	MI10699	147	12/31/07		
ICSA	7:13	MI10700	147	12/31/07		
ICSAB	7:15	MI10701	148	12/31/07		
CCV	7:16	MI10702	148	12/31/07		
CCB	7:18	MI10665	135	12/26/07		

QC/SAMPLE ID	CLIENT ID	ANALYSIS TIME	DILUTION FACTOR	COMMENTS
PB31212BL	PBW	7:20		
PB31212BS	LCSW	7:22		
Y5799-01		7:24		
-02		7:26		
-03		7:28		
-04D		7:31		
-03L		7:33	5	
-05S		7:35		
-06		7:37		
-07		7:39		
CCV		7:45		
CCB		7:47		
Y5799-08		7:49		
-09		7:51		
-10		7:53		

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ICP-2(P2) ANALYSIS RUN LOG

METHOD: ILM05.4

~~PROJECT No.:~~

RUN ID: P2123107 DATE: 12 / 31 / 07 ANALYST: B.Ford

QC/SAMPLE ID	CLIENT ID	ANALYSIS TIME	DILUTION FACTOR	COMMENTS
Y5799-11		7:55		Typo: Client ID
-12		7:57		
-13		7:59		
-14		8:01		
CRI		8:07		
ICSA		8:13		
ICSAB		8:15		
CCV		8:22		
CCB		8:25		
Y5799-15		8:27		
-16		8:29		
-17		8:31		
-18		8:33		
P831249B2		8:35		
P831249B3		8:37		
Y5865-01		8:39		
-01D		8:41		
-01L		8:43	5	
-01S		8:46		
CCV		8:53		
CCB		8:55		
Y5865-02		8:57		
-03		8:59		
-04		9:01		

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ICP-2(P2) ANALYSIS RUN LOG

METHOD: ILM05.4

~~PROJECT No:~~

RUN ID: P2123107 DATE: 12 / 31 / 07 ANALYST: B.Ford

QC/SAMPLE ID	CLIENT ID	ANALYSIS TIME	DILUTION FACTOR	COMMENTS
Y5865-05		9:03		
-06		9:05		
-07		9:07		
-08		9:10		
CRI		9:23		
ICSA		9:24		
ICSAB		9:27		
CCV		9:29		
CCB		9:31		
Y5865-09		9:34		
-19		9:36		
-11		9:38		
-12		9:40		
-13		9:42		
-14		9:44		
-15		9:46		
-16		9:49		
-17		9:51		
-18		9:53		
CCV		9:55		
CCB		9:57		
Y5865-01A		9:59		
PB31257BL	PBW	10:09		
PB31257BS	LCSW	10:11		

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ICAP-2 LOGBOOK

DATE	RUN ID	PROJECT #:	ANALYST	COMMENT
12/26/07	P2122607	Y5672R, Y5670R, Y5632R	B.FORD	—
12/26/07	P2122607	Y5670R Y5672R Y5318R Y5837R	B.Ford	—
		Y5772R Y5798R	B.Ford	—
12/27/07	P2122707	Y5836R. Y5699R Y5780R	B.Ford	—
—	—	Y5691 Y5791	B.Ford	—
12/28/07	P2122807	Y5761 Y5762 Y5763 Y5764	B.Ford	—
12/29/07	P2122907	Y Y5897R	D.Regula	—
12/29/07	P2122907A	~~Y45~~ Y5763R Y5755R Y5756R	D.Kowal	—
—	—	Y5757R	D.Kim	—
12/30/07	P2123007	Y5158 Y5759 Y5760	B.Ford	—
12/31/07	P2123107	Y5799 Y5865 Y5882 Y5842	B.Ford	—

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
STD. S	MI10322	11/12/07	05/10/08	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1328	5mL.	MI10321 used to make the		500 mL
MM1329	5mL.	final volume.		
MM1381	5mL.	—	—	
MM1371	5mL.	—	—	

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI (AS, PB)	MI10323	11/12/07	NA	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MI10311	0.5mL.	MI10321 used to make the		50 mL
—	—	final volume.		
				11/12/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
				mL
				11/12/07

Document Control #:A3040605 10 Supervisor Review: [illegible] Date: 11/12/07

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICV	MI10698	12/31/07	NA	B.Ford
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1367	1 mL	MI10665 used to make final vol.		10 mL
			12/31/07 BF	

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI	MI10699	12/31/07	NA	B.Ford
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MI10293	0.5 mL	MI10665 used to make final vol.		50 mL
			12/31/07 BF	

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICSA	MI10700	12/31/07	NA	B.Ford
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM 1188	0.5 mL	MI10665 used to make final vol.		50 mL
			12/31/07 BF	

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICSAB	MI10701	12/31/07	NA	B.Ford
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM 1188	5 mL	MI10665 used to make final vol.		50 mL
MM 1192	5 mL			
			12/31/07 BF	

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CCV	MI10702	12/31/07	NA	B.Ford
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1328	0.5mL	MI10665 used to make final vol.		100 mL
MM1329	0.5mL			
MM1381	0.5mL			
MM1371	0.5mL		12/31/07 BF	

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
1:1 HNO3	MI10703	12/31/07	06/30/08	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MR1536	1200 mL	MR1536-HNO3	12/31/07 1200 mL DI H2O	2400 mL
		12/31/07		

 Supervisor Review: [illegible] Date: 12/31/2005

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
Spike sol. C	MI10084	10/03/07	02/01/08	[signature]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1318	2.5mL.	MI10082 used to make the		250 mL
MM1339	2.5mL.	final volume.		
				10/03/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICV	MI10085	10/03/07	NA	[signature]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1363	1mL.	MI10082 used to make the		10 mL
—	—	final volume.		
				10/03/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI	MI10086	10/03/07	NA	[signature]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MI9394	0.5mL.	MI10082 used to make the		50 mL
—	—	final volume.		
				10/03/07

Document Control #:A3040590 101 Supervisor Review: [signature] Date: 10/03/07

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CERTIFICATE OF ANALYSIS

R: 05/02/07

MM1328

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2.0 DESCRIPTION OF CRM Stock Solution

Catalog No.: CLPP-CAL-1

Lot Number: Z-MEB194061

Matrix: 5% HNO3(abs)

5,000.00 µg/mL each:
Ca, K, Mg, Na,
2,000.00 µg/mL each:
Al, Ba,
1,000.00 µg/mL each:
Fe,
500.00 µg/mL each:
Co, Mn, Ni, V, Zn,
250.00 µg/mL each:
Ag, Cu,
200.00 µg/mL each:
Cr3,
50.00 µg/mL each:
Be

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	2,002 ± 6 µg/mL	Barium, Ba	1,997 ± 3 µg/mL	Beryllium, Be	49.98 ± 0.10 µg/mL
Calcium, Ca	4,996 ± 11 µg/mL	Chromium+3, Cr3	199.7 ± 0.6 µg/mL	Cobalt, Co	498.7 ± 1.1 µg/mL
Copper, Cu	249.2 ± 0.6 µg/mL	Iron, Fe	1,000 ± 2 µg/mL	Magnesium, Mg	4,995 ± 17 µg/mL
Manganese, Mn	501.6 ± 1.0 µg/mL	Nickel, Ni	498.8 ± 1.0 µg/mL	Potassium, K	5,001 ± 7 µg/mL
Silver, Ag	250.5 ± 0.2 µg/mL	Sodium, Na	5,001 ± 24 µg/mL	Vanadium, V	499.5 ± 1.2 µg/mL
Zinc, Zn	501.1 ± 1.8 µg/mL				

Certified Density: 1.131 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\sum x1}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\sum s1)2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x1 = individual results
n = number of measurements
$\sum s1$ = The summation of all significant estimated errors
(Most common are the errors from instrumental measurement weighting, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

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MM 1324

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2.0 DESCRIPTION OF CRM Stock Solution

Catalog No.: CLPP-CAL-3

Lot Number: Z-MEB194081

Matrix: 5% HNO3(abs)

1,000.00 µg/mL each:
As, Pb, Se, Tl,
500.00 µg/mL each:
Cd

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Arsenic, As	1,002 ± 3 µg/mL	Cadmium, Cd	500.4 ± 2.1 µg/mL	Lead, Pb	1,000 ± 2 µg/mL
Selenium, Se	1,000 ± 4 µg/mL	Thallium, Tl	999 ± 3 µg/mL		

Certified Density: 1.045 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no

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2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: CHEM-CLP-4

Lot Number: A2-MEB239119

Matrix: 0.1% HF(abs), 2% HNO3(abs)

1,000.00 µg/mL ea:
B, Mo, Si, Sn, Ti

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Boron, B	1,002 ± 6 µg/mL	Molybdenum, Mo	1,001 ± 2 µg/mL	Silicon, Si	1,003 ± 2 µg/mL
Tin, Sn	1,000 ± 3 µg/mL	Titanium, Ti	999 ± 2 µg/mL		

Certified Density: 1.026 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

The independent samples t-test was used to determine if there is agreement between the above assay methods at the 95% confidence interval. Both methods were compared and showed agreement within the stated uncertainties. This agreement is a confirmation of the accuracy of this CRM.

4.0 **TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

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2.0 **DESCRIPTION OF CRM** **1000 µg/mL Antimony in HF in 1.4% (abs) HNO3 / Trace HF**

Catalog Number:	CGSBF1-1, CGSBF1-2, and CGSBF1-5
Lot Number:	**A2-SB02104**
Starting Material:	Sb shot
Starting Material Purity (%):	99.999214
Starting Material Lot No:	I19Q107
Matrix:	1.4% (abs) HNO3 / Trace HF

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1001 ± 3 µg/mL

Certified Density: 1.009 g/mL (measured at 22° C)

The Certified Value is the instrument analysis value. The following equations are used in the calculation of the certified value and the uncertainty:

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **1001 ± 3 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 990707

Assay Method #2 **1001 ± 5 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI (CONC.) (As, Pb)	MI10311	11/08/07	05/06/07	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1377	0.1ML.	MI10303 used to make the		100 mL
MM1379	0.5ML.	final volume.		
				11/08/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI (As, Pb)	MI10312	11/08/07	NA	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MI10311	1ML.	MI10303 used to make the		100 mL
—	—	final volume.		
				11/08/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICSA	MI10313	11/08/07	NA	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1186	5mL.	MI10303 used to prepare		50 mL
—	—	the final volume.		
				11/08/07

Document Control #:A3040605 6 Supervisor Review: [illegible] Date: 11/08/07

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICSAB	MI10314	11/08/07	NA	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1186	5mL.	MI10303 used to make the final volume.		50 mL
MM1192	5mL.			
				11/08/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
SPIKE SOLS (As, Pb)	MI10315	11/08/07	05/06/08 12/12/07	[illegible]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1377	1mL.	MI10303 used to make the final volume.		100 mL
MM1379	7mL.			
				11/08/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
				mL
				11/08/07

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Inorganic Standard Preparation Log

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI (CONC.) (Mo+B)	MI10338	11/14/07	05/10/08	[signature]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1402	1mL.	MI10321 used to make the		100 mL
MM1404	0.2mL.	final volume.		
				11/14/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
CRI	MI10339	11/14/07	NA	[signature]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MI10293	0.5mL.	MI10321 used to make		50 mL
MI10338	0.5mL.	the final	volume.	
				11/14/07

Standard Name	Chemtech Prep. Log #	Preparation Date	Expiration Date	Signature
ICV	MI10340	11/14/07	NA	[signature]
Stock Log #	Volume Used mL of Stock	Reagent Log # and Description	Volume Used mL of Reagent	Final Volume
MM1364	2.5mL.	MI10321 used to make		25 mL
MI10284	1.25mL.	the final	volume.	
				11/14/07

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET
PART A (0503) WITH PART B (0203) FOR ICP-AES

R: 8/11/06
S. Jasuja

The "Certified Value" concentrations of the elements are listed in Table 1. The values are certified in that all results used in calculating the certified values were derived from statistically pooled results from the following sources: ILM05.2 Pre-award, Quarterly Blind, CLP laboratory referee, and QATS analysis. Preparation and analysis must be performed according to the following instructions:

Part A (0503), Inferferents: Pipet 10 mL of the Part A solution into a 100-mL volumetric flask and dilute to volume with 2% v/v HNO3. Analyze this solution, Soln. A, by ICP-AES.

Part B (0203), Analytes, mixed with Part A (0503), Interferents: Pipet 10 mL of the Part A solution and 10 mL of the Part B solution into a 100-mL volumetric flask and dilute to volume with 2% v/v HNO3. Analyze this solution, Soln. AB, by ICP-AES.

NOTE: THIS ICS SET FOR USE WITH ILM05.2 AND REVISIONS ONLY, NOT ILM04.x.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES PART A (0503) AND PART A (0503) MIXED WITH PART B (0203)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	243900	248400
Sb	(0)	585
As	(0)	97
Ba	(2)	475
Be	(0)	482
Cd	(0)	916
Ca	234100	234300
Cr	36	506
Co	(3)	455
Cu	(15)	537
Fe	94900	95100
Pb	(5)	51
Mg	248800	254100
Mn	19	483
Ni	(10)	930
Se	(0)	51
Ag	(0)	210
Tl	(0)	96
V	(1)	481
Zn	(39)	975

( ) INDICATES ANALYTE VALUES THAT ARE LESS THAN THE CRQL AND THE VALUE IS TO BE USED AS A SET POINT FOR THE +/- 2 TIMES CRQL ACCEPTANCE CRITERIA CALCULATIONS.

PART A MM1179 → MM1188 PART B MM1189 → MM1198

R 18/11/07

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

ICV-1 (1201)		
Element	Concentration (µg/L) (after 10 fold dilution)	Concentration (µg/L) (after 50 fold dilution)
Al	2482	496
Sb	992	198
As	996	199
Ba	502	100
Be	493	99
Cd	494	99
Ca	10180	2036
Cr	490	98
Co	496	99
Cu	490	98
Fe	5107	1021
Pb	996	199
Mg	6003	1201
Mn	495	99
Ni	492	98
K	10008	2002
Se	1005	201
Ag	495	99
Na	10039	2008
Tl	1027	205
V	501	100
Zn	1000	200

MM1361
↓
MM1370

ICV-2 (0601)	
Element	Concentration (µg/L) (after 10 fold dilution)
As	52.6
Se	50.8

ICV-3 (0500)	
Element	Concentration (µg/L) (after 10 fold dilution)
Sb	999

QATS INORGANIC REFERENCE MATERIAL
SOLID LABORATORY CONTROL SAMPLE
LCSS (0405)

R: 12/13/06

TABLE 1. CERTIFIED VALUE CONCENTRATIONS AND CONTROL LIMITS FOR THE ELEMENTS IN THE SOLID LABORATORY CONTROL SAMPLE LCSS (0405)

Element	"Certified Value" (mg/Kg)	Control Limits (mg/Kg) Low Limit	High Limit
Al	115	54.7	175
Sb	66.0	27.6	104
As	253	154	352
Ba*	[1.6]	1.0	2.2
Be	4.9	3.0	6.8
Cd	10.9	7.7	14.0
Ca	44200	30300	58200
Cr	27.1	18.5	35.7
Co	37.4	24.2	50.6
Cu	1770	1320	2230
Fe	6470	4280	8660
Pb	56.9	41.4	72.4
Mg	29200	20500	37900
Mn	61.0	41.6	80.5
Hg	3.59	1.86	5.32
Ni	16.3	9.0	23.7
K*	[39.7]	0	85.3
Se	10.0	4.1	15.9
Ag	5.9	2.7	9.1
Na*	[72.5]	0	216
Tl	9.5	2.9	16.1
V	17.6	11.6	23.7
Zn	47.5	20.5	74.4

[ ] Denotes values which are greater than or equal to the method detection limit (MDL), but less than the Contract Required Quantitation Limit (CRQL).
* Barium, potassium, and sodium are present at concentrations below ILM05.x CRQLs. Acceptance limits are advisory only.

MM1308 → MM1310

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2.0 DESCRIPTION OF CRM

10000 µg/mL Arsenic in 1.4% (abs) HNO3

Catalog Number:	CGAS10-1, CGAS10-2, and CGAS10-5
Lot Number:	**Z-AS02034**
Starting Material:	As Polycrystaline lump
Starting Material Purity (%):	99.998287
Starting Material Lot No:	23444
Matrix:	1.4% (abs) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,006 ± 25 µg/mL

Certified Density: 1.028 g/mL (measured at 22° C)

The Certified Value is the ICP value. The following equations are used in the calculations of the certified value and the uncertainty:

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** 10,006 ± 25 µg/mL (Avg. of 2 Runs)
ICP Assay NIST SRM 3103a Lot Number: 010713

Assay Method #2 10,008 ± 50 µg/mL
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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2.0 DESCRIPTION OF CRM 10000 µg/mL Lead in 0.35% (abs) HNO3

Catalog Number:	CGPB10-1, CGPB10-2, and CGPB10-5
Lot Number:	A2-PB02138
Starting Material:	Pb(NO3)2
Starting Material Purity (%):	99.999329
Starting Material Lot No:	22150
Matrix:	0.35% (abs) HNO3

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 10,039 ± 24 µg/mL

Certified Density: 1.014 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

The independent samples t-test was used to determine if there is agreement between the above assay methods at the 95% confidence interval. Both methods were compared and showed agreement within the stated uncertainties. This agreement is a confirmation of the accuracy of this CRM.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 10,003 ± 53 µg/mL
ICP Assay NIST SRM 3128 Lot Number: 030721

Assay Method #2 10,039 ± 24 µg/mL
EDTA NIST SRM 928 Lot Number: 928

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2.0 **DESCRIPTION OF CRM** **1000 µg/mL Boron in Water**

Catalog Number:	CGB1-1, CGB1-2, and CGB1-5
Lot Number:	A2-B02069
Starting Material:	H_3BO_3
Starting Material Purity (%):	99.999922
Starting Material Lot No:	OV0133
Matrix:	Water

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1006 ± 4 µg/mL

Certified Density: 1.000 g/mL (measured at 22° C)

The Certified Value is the instrument analysis value. The following equations are used in the calculation of the certified value and the uncertainty:

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

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- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'In-house std.' is specified.

4.1 **Assay Method #1** **1006 ± 4 µg/mL (Avg. of 2 Runs)**
ICP Assay NIST SRM 3107 Lot Number: 991907

Assay Method #2 **1001 ± 5 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

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mm1404
R: 11/2/07

1.0 **INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35:1989 "Certification of Reference Materials - General and Statistical Principals."

2.0 DESCRIPTION OF CRM — 1000 µg/mL Molybdenum in H20 / tr. NH4OH

Catalog Number:	CGMO1-1, CGMO1-2, and CGMO1-5
Lot Number:	**A2-MO02019**
Starting Material:	(NH4)6Mo7O24xH2O
Starting Material Purity (%):	99.994915
Starting Material Lot No:	23398
Matrix:	H20 / tr. NH4OH

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 992 ± 3 µg/mL

Certified Density: 0.999 g/mL (measured at 22° C)

The Certified Value is the instrument analysis value. The following equations are used in the calculation of the certified value and the uncertainty:

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** — **992 ± 3 µg/mL (Avg. of 2 Runs)**
ICP Assay NIST SRM 3134 Lot Number: 891307

Assay Method #2 — **1001 ± 5 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

P.O. Box 41727
Charleston, SC 29423
TEL: (843) 767-7900
FAX: (843) 767-7906

MM1159

HIGH-PURITY STANDARDS

R: 6/8/06 MM1158-32 6/8/06 CAT. NO. 10M3-1

Certificate of Analysis

Arsenic

Lot # 613605

Source	Source Purity	Matrix	Density g/mL @ 22.3°C	Standard Concentration
Arsenic Metal	99.999%	HNO_3, 20%	1.169	10.00 ± 0.03 mg/mL

This spectrometric standard solution has been prepared from high-purity reference materials. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. The reference materials have been assayed by inductively coupled plasma optical emission spectrometry (ICP-OES).

The Arsenic solution was analyzed by ICP-MS and ICP-OES for trace impurities. The less than values are detection limits for the method. M = Major element.

Concentrations as µg/L (ppb)

Li	<0.02	Be	<0.1	B	<1.0	Na	<1.0	Mg	0.2	Al	<1.0	Si	<1.0	K	<1.0
Ca	<1.0	Sc	<0.02	Ti	<0.02	V	<0.02	Cr	0.5	Mn	<0.02	Fe	<1.0	Co	<0.02
Ni	<0.02	Cu	<0.02	Zn	<0.02	Ga	<0.02	Ge	<0.02	As	M	Se	<0.02	Rb	<0.02
Sr	<0.02	Y	<0.02	Zr	<0.02	Nb	<0.02	Mo	<0.02	Ru	<0.02	Rh	<0.02	Pd	<0.02
Ag	<0.02	Cd	<0.02	In	<0.02	Sn	<0.02	Sb	<0.02	Te	<0.02	Cs	<0.02	Ba	<0.02
La	<0.02	Ce	<0.02	Pr	<0.02	Nd	<0.02	Sm	<0.02	Eu	<0.02	Gd	<0.02	Tb	<0.02
Dy	<0.02	Ho	<0.02	Er	<0.02	Tm	<0.02	Yb	<0.02	Lu	<0.02	Hf	<0.02	Ta	<0.02
W	<0.02	Re	<0.02	Os	<0.02	Ir	<0.02	Pt	<0.02	Au	<0.02	Hg	<0.02	Tl	<0.02
Pb	<0.02	Bi	<0.02	Th	<0.02	U	<0.02								

The standard concentration has been verified by ICP-OES against an independent source which is traceable to National Institute of Standards and Technology, Standard Reference Material No. 3103a.

This standard is valid for eighteen months from the shipping date provided the solution is kept tightly capped and stored under normal laboratory conditions.

Theodore C. Rains

Theodore C. Rains, Ph.D.
President

DEC 0 5 2007
Exp. Date

MSDS ATTACHED

P.O. Box 41727
Charleston, SC 29423
TEL: (843) 767-7900
FAX: (843) 767-7906

MM1160

HIGH-PURITY STANDARDS

R: 6/8/06, ~~MM1159~~ 6/8/06

CAT. NO. 10M28-1

Certificate of Analysis

Lead

Lot # 610814

Source	Source Purity	Matrix	Density g/mL @ 23.3°C	Standard Concentration
Lead Metal	99.999%	HNO_3, 4%	1.028	10.00 ± 0.03 mg/mL

This spectrometric standard solution has been prepared from high-purity reference materials. Sub-boiling distilled high-purity acid has been used to place the materials in solution and to stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. The reference materials have been assayed by inductively coupled plasma optical emission spectrometry (ICP-OES).

The Lead solution was analyzed by ICP-MS and ICP-OES for trace impurities. The less than values are detection limits for the method. M = Major element

Concentrations as µg/L (ppb)

Li	<0.02	Be	<0.1	B	<1.0	Na	<1.0	Mg	<1.0	Al	<1.0	Si	<1.0	K	<1.0
Ca	<1.0	Sc	<0.02	Ti	<0.02	V	<0.02	Cr	<0.02	Mn	<0.02	Fe	<1.0	Co	<0.02
Ni	<0.02	Cu	<0.02	Zn	<0.02	Ga	<0.02	Ge	<0.02	As	<0.02	Se	<0.02	Rb	<0.02
Sr	<0.02	Y	<0.02	Zr	<0.02	Nb	<0.02	Mo	<0.02	Ru	<0.02	Rh	<0.02	Pd	<0.02
Ag	3.0	Cd	<0.5	In	<0.02	Sn	<0.02	Sb	<0.02	Te	<0.02	Cs	<0.02	Ba	<0.02
La	<0.02	Ce	<0.02	Pr	<0.02	Nd	<0.02	Sm	<0.02	Eu	<0.02	Gd	<0.02	Tb	<0.02
Dy	<0.02	Ho	<0.02	Er	<0.02	Tm	<0.02	Yb	<0.02	Lu	<0.02	Hf	<0.02	Ta	<0.02
W	<0.02	Re	<0.02	Os	<0.02	Ir	<0.02	Pt	<0.02	Au	<0.02	Hg	<0.02	Tl	<0.02
Pb	M	Bi	<0.02	Th	<0.02	U	<0.02								

The standard concentration has been verified by ICP-OES against an independent source which is traceable to National Institute of Standards and Technology, Standard Reference Material No. 3128.

This standard is valid for eighteen months from the shipping date provided the solution is kept tightly capped and stored under normal laboratory conditions.

DEC 05 2007
Exp. Date

MSDS ATTACHED

Theodore C. Rains, Ph.D.
President

ILMO5.4

Prepcode HG01

CHEMTECH

Water Sample Preparation Worksheet

PB31212

SDG No _____

Matrix: Water

Method: ILMO5.3

Initial Vol: 50 ml

Final Vol: 50 ml

Hot Plate Temp: 1. 2. 3.

95°C

Y5799

Batch #: PB31212

ICP Digest Date: 12/27/07

Sample Received By: D. Hu

Analyst Signature: [signature] Kenneth Rivera

Supervisor Signature: [signature]

STANDARD NAME	MLS USED	STD REF. # FROM LOG
Spike Sol 1		
Spike Sol 2		
Spike Sol 3	12/27/07 [signature]	12/27/07 KR
Spike Sol 4	5.0 ML	MM1369
Spike Sol. 6	0.250 ML	MI10640

CHEMICAL USED	LOT #
CONC. HNO3	12/27/07 [signature]
1:1 HCL	MI10644
1:1 HNO3	MI10642
CONC. HCL	
	12/27/07 [signature]

Date/Time	Received By	Relinquished By	Location
12/27/07 12:30 PM	D. Hu	[signature]	Tech-Lab

CHEMTECH

Water Sample Preparation Worksheet

Batch #: PB31212

LAB SAMPLE ID	CLIENT SAMPLE ID	COLOR BEFORE	COLOR AFTER	CLARITY BEFORE	CLARITY AFTER	pH	COMMENTS
PB31212BL	PBW	C	C	CL	CL	<2	
PB31212BS	LCSW	C	C	CL	CL	<2	
Y5799-01	MH24R9	C	C	CL	CL	<2	
Y5799-02	MH24S0	C	C	CL	CL	<2	
Y5799-03	MH24S1	C	C	CL	CL	<2	12/27/07 JNP
Y5799-04	MH24S1D	C	C	CL	CL	<2	INIT VOL 25ML FINAL VOL. 25ML
Y5799-05	MH24S1S	C	C	CL	CL	<2	↓ ↓ Spk.Sol.6
Y5799-06	MH24S2	C	C	CL	CL	<2	
Y5799-07	MH24S3	C	C	CL	CL	<2	
Y5799-08	MH24S4	C	C	CL	CL	<2	
Y5799-09	MH24S5	C	C	CL	CL	<2	
Y5799-10	MH24S6	C	C	CL	CL	<2	
Y5799-11	MH24S9	C	C	CL	CL	<2	
Y5799-12	MH24T0	C	C	CL	CL	<2	
Y5799-13	MH24T1	C	C	CL	CL	<2	
Y5799-14	MH24T2	C	C	CL	CL	<2	
Y5799-15	MH24T3	C	C	CL	CL	<2	
Y5799-16	MH24T4	C	C	CL	CL	<2	
Y5799-17	MH24W5	C	C	CL	CL	<2	
Y5799-18	MH24W6	C	C	CL	CL	<2	12/27/07 JNP

* BL=Blank BS=Blank Spike TB=TCLP Blank
* COLOR: R=Red BU=Blue Y=Yellow GR=Green O=Orange V=Violet W=White C=Colorless BR=Brown GY=Grey BL=Black
* CLARITY: CL=Clear CD=Cloudy O=Opaque

fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx Express *US Airbill*

FedEx Tracking Number 8627 8281 5611

Form ID No. 0200 **Recipient's Copy**

1 From

Date 11/19/07

Sender's Name Chris Hayes Phone 801 364 1061

Company Tetra Tech

Address 136 E South Temple, Ste. 910. Dept./Floor/Suite/Room

City SLC State UT ZIP 84111

2 Your Internal Billing Reference 1158520004

3 To

Recipient's Name Chemtrech Consulting Group (CHEMED) Phone 908 789 8900

Company

Recipient's Address 284 Sheffield Street

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Mountainside State NJ ZIP 07092

135

8627 8281 5611

Sr Fuac 12/20/07 15:10

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ___ x ___ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

Total Packages	Total Weight	Total Declared Value†
1	3	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

Rev. Date 10/06•Part #158281•©1994–2006 FedEx•PRINTED IN U.S.A. SRY

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Terms And Conditions

Definitions On this Airbill, "we," "our," "us," and "FedEx" refer to Federal Express Corporation, its employees, and agents. "You" and "your" refer to the sender, its employees, and agents.

Agreement To Terms By giving us your package to deliver, you agree to all the terms on this Airbill and in the current FedEx Service Guide, which is available upon request. You also agree to those terms on behalf of any third party with an interest in the package. If there is a conflict between the current FedEx Service Guide and this Airbill, the current FedEx Service Guide will control. No one is authorized to change the terms of our Agreement.

Responsibility For Packaging And Completing Airbill You are responsible for adequately packaging your goods and properly filling out this Airbill. If you omit the number of packages and/or weight per package, our billing will be based on our best estimate of the number of packages we received and/or an estimated "default" weight per package as determined by us.

Responsibility For Payment Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we incur in either returning your package to you or warehousing it pending disposition.

Limitations On Our Liability And Liabilities Not Assumed

- Our liability in connection with this shipment is limited to the lesser of your actual damages or $100, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. You may pay an additional charge for each additional $100 of declared value. The declared value does not constitute, nor do we provide, cargo liability insurance.
- In any event, we will not be liable for any damage, whether direct, incidental, special, or consequential, in excess of the declared value of a shipment, whether or not FedEx had knowledge that such damages might be incurred, including but not limited to loss of income or profits.
- We won't be liable:
  - for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking, or addressing, or those of the recipient or anyone else with an interest in the package.
  - if you or the recipient violates any of the terms of our Agreement.
  - for loss of or damage to shipments of prohibited items.
  - for loss, damage, or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts of public authorities with actual or apparent authority.

Declared Value Limits

- The highest declared value allowed for a FedEx Envelope or FedEx Pak shipment is $500.
- For other shipments, the highest declared value allowed is $50,000 unless your package contains items of extraordinary value, in which case the highest declared value allowed is $500.
- Items of extraordinary value include shipments containing such items as artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in the current FedEx Service Guide.
- You may send more than one package on this Airbill and fill in the total declared value for all packages, not to exceed the $100, $500, or $50,000 per package limit described above. (Example: 5 packages can have a total declared value of up to $250,000.) In that case, our liability is limited to the actual value of the package(s) lost or damaged, but may not exceed the maximum allowable declared value(s) or the total declared value, whichever is less. You are responsible for proving the actual loss or damage.

Filing A Claim YOU MUST MAKE ALL CLAIMS IN WRITING and notify us of your claim within strict time limits set out in the current FedEx Service Guide.

You may call our Customer Service department at 1.800.GoFedEx 1.800.463.3339 to report a claim; however, you must still file a timely written claim. We aren't obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume the package was delivered in good condition. For us to process your claim, you must make the original shipping cartons and packing available for inspection.

Right To Inspect We may, at our option, open and inspect your packages before or after you give them to us to deliver.

Right Of Rejection We reserve the right to reject a shipment when such shipment would be likely to cause delay or damage to other shipments, equipment, or personnel; or if the shipment is prohibited by law; or if the shipment would violate any terms of our Airbill or the current FedEx Service Guide.

C.O.D. Services C.O.D. SERVICE IS NOT AVAILABLE WITH THIS AIRBILL. If C.O.D. Service is required, please use a FedEx C.O.D. Airbill.

Air Transportation Tax Included A federal excise tax when required by the Internal Revenue Code on the air transportation portion of this service, if any, is paid by us.

Money-Back Guarantee In the event of untimely delivery, FedEx will, at your request and with some limitations, refund or credit all transportation charges. See the current FedEx Service Guide for more information.

Part #158280/81 • Rev. 10/06

CHEMTECH

LOGIN REPORT

Order ID:	Y5799 USEP01	**Order Date:**	12/17/2007	**Project Mgr:**	zubair
Client Name:	USEPA CLP SMO	**Project Name:**	37093	**Report Type:**	
Client Contact:		**Rec DateTime**	12/20/2007 3:10:00 PM	**EDD:**	
Invoice Name:	USEPA CLP SMO	**Purchase Order:**		**Hard Copy Date:**	1
Invoice Contact		**Login Tech:**	snehal	**Date Signoff:**	12/26/2007 1:45:36 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT		FAX DATE	Due Dates
Y5799-01	MH24R9	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-02	MH24S0	Water	12/17/2007		1	Metals CLP Full		ILM05.3	TM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-03	MH24S1	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-04	MH24S1D	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-05	MH24S1S	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-06	MH24S2	Water	12/17/2007		1	Metals CLP Full		ILM05.3	TM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM

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LOGIN REPORT

Order ID:	Y5799 USEP01	**Order Date:**	12/17/2007	**Project Mgr:**	zubair
Client Name:	USEPA CLP SMO	**Project Name:**	37093	**Report Type:**	
Client Contact:		**Rec DateTime**	12/20/2007 3:10:00 PM	**EDD:**	
Invoice Name:	USEPA CLP SMO	**Purchase Order:**		**Hard Copy Date:**	1
Invoice Contact		**Login Tech:**	snehal	**Date Signoff:**	12/26/2007 1:45:36 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT		FAX DATE	Due Dates
Y5799-07	MH24S3	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-08	MH24S4	Water	12/17/2007		1	Metals CLP Full		ILM05.3	TM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-09	MH24S5	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-10	MH24S6	Water	12/17/2007		1	Metals CLP Full		ILM05.3	TM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-11	MH24S9	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-12	MH24T0	Water	12/17/2007		1	Metals CLP Full		ILM05.3	TM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM

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LOGIN REPORT

Order ID:	Y5799 USEP01	**Order Date:**	12/17/2007	**Project Mgr:**	zubair
Client Name:	USEPA CLP SMO	**Project Name:**	37093	**Report Type:**	
Client Contact:		**Rec DateTime**	12/20/2007 3:10:00 PM	**EDD:**	
Invoice Name:	USEPA CLP SMO	**Purchase Order:**		**Hard Copy Date:**	1
Invoice Contact		**Login Tech:**	snehal	**Date Signoff:**	12/26/2007 1:45:36 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT		FAX DATE	Due Dates
Y5799-13	MH24T1	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-14	MH24T2	Water	12/17/2007		1	Metals CLP Full		ILM05.3	TM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-15	MH24T3	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-16	MH24T4	Water	12/17/2007		1	Metals CLP Full		ILM05.3	TM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-17	MH24W5	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM
Y5799-18	MH24W6	Water	12/17/2007		1	Metals CLP Full		ILM05.3	DM	10 Bu	Jan 3 2008 3:10PM	Jan 3 2008 3:10PM

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LOGIN REPORT

Order ID:	Y5799 USEP01	Order Date:	12/17/2007	Project Mgr:	zubair
Client Name:	USEPA CLP SMO	Project Name:	37093	Report Type:	
Client Contact:		Rec DateTime	12/20/2007 3:10:00 PM	EDD:	
Invoice Name:	USEPA CLP SMO	Purchase Order:		Hard Copy Date:	1
Invoice Contact		Login Tech:	snehal	Date Signoff:	12/28/2007 1:45:36 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	N/A

ORDER COMMENT

CASE#37093,SDG#MH24R9

139

WORKLIST(Hardcopy Internal Chain)

Worklist Name y5799 ✓

Date: 27-Dec-07

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Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
12/17/2007	Water	Y5799-01	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24R9	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-02	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S0	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-03	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S1	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-04	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S1D	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-05	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S1S	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-06	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S2	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-07	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S3	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-08	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S4	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-09	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S5	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-10	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S6	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-11	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24S9	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-12	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24T0	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-13	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24T1	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-14	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24T2	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-15	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24T3	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-16	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24T4	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-17	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24W5	12/17/2007	ILM05.3
12/17/2007	Water	Y5799-18	Metals CLP Full	Conc HNO3 to pH	USEPA CLP SMO	A11	MH24W6	12/17/2007	ILM05.3

Date/Time 12-27-07 9:00
Received by: WP
Relinquished by: R. Pedrosa

Date/Time 12/27/07 3:30
Received by: R. Pedrosa
Relinquished by: WP

WORKLIST(Hardcopy Internal Chain)

Worklist Name np3-12270 **Date:** 27-Dec-07

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Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
1/2/2008 2:10:00 PM	Water	Y5841-03	Metals Group5	Conc HNO3 to pH	Spectra Environme	B12	MW-112/19/2007 6020		
1/2/2008 2:10:00 PM	Water	Y5841-04	Dissolved ICP-Gro	Cool 4 deg C	Spectra Environme	B12	MW-112/19/2007 6020		
1/2/2008 2:10:00 PM	Water	Y5841-07	Metals Group5	Conc HNO3 to pH	Spectra Environme	B12	MW-212/19/2007 6020		
1/2/2008 2:10:00 PM	Water	Y5841-08	Dissolved ICP-Gro	Cool 4 deg C	Spectra Environme	B12	MW-212/19/2007 6020		

Date/Time 12-27-07 9:00
Received by: np
Relinquished by: R. Pedrosa

Date/Time 12/27/07 3:30
Received by: R. Pedrosa
Relinquished by: np

CHEMTECH

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900

LABORATORY CHRONICLE
SAMPLE MANAGEMENT

CLIENT NAME USEPA CLP SMO
CLIENT PROJECT 37093
SAMPLE DATE(s) 12/17/07
LAB PROJECT# Y5799
SAMPLE TEMP ON RECEIPT 4°C
SAMPLE RECEIVED DATE 12/20/07
SAMPLE MATRIX: H2O, SOIL, WIPE, AIR, OTHER CHEMTECH COOLER ID: N/A

CONDITION OF SAMPLES RECEIVED BY LAB	NA	YES	NO	COMMENT
COOLER SEAL INTACT	NA	YES	NO	
SAMPLES RECEIVED COOL (2-6 oC)	NA	YES	NO	
SAMPLE RECEIVED INTACT	NA	YES	NO	
SAMPLE LABELS MATCH CHAIN OF CUSTODY	NA	YES	NO	
Were Samples Within The Holding Time For The Requested Test(S)?	NA	YES	NO	
VOA'S PRESERVED AS PER LABEL OR CUSTODY	NA	YES	NO	
VOA'S W/OUT BUBBLES, SEPTA TPE SIDE DOWN	NA	YES	NO	
SAMPLES DELIVERED VIA CHEMTECH PICK UP	NA	YES	NO	
SAMPLES DELIVERED VIA CLIENT DROP OFF	NA	YES	NO	
AIRBILL # PRESENT, IF BY COMMON CARRIER	NA	YES	NO	Fedex 862782815611
TRAFFIC REPORTS PRESENT, IF APPLICABLE	NA	YES	NO	
SUBCONTRACT ANALYSIS REQUIRED	NA	YES	NO	

PRESERVATION CHECKS PERFORMED FOR AQUEOUS SAMPLES REQUIRING pH ADTLUSTMENT
NA=IF NOT APPLICABLE

SAMPLE #	Test	Bottle Type	Preservative	pH MEASURED	OK	COMMENT
Y5799-01	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2	<2	✓	INTACT
Y5799-02	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-03	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-04	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-05	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-06	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-07	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-08	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-09	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-10	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-11	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-12	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-13	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-14	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-15	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			

SAMPLE #	Test	Bottle Type	Preservative	pH MEASURED	OK	COMMENT
Y5799-16	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2	2	✓	INTACT
Y5799-17	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-18	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-19	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			
Y5799-20	Metals CLP Full	1 Liter Plastic	Conc HNO3 to pH < 2			

PERSON COMPLETING THIS FORM: [illegible] DATE: 12/20/07

QA Control Code: A2040128