1085973 - R8 SDMS

COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)
CHAIN OF CUSTODY FORM

U.S. Environmental Protection Agency
Region 8 Superfund Program
Contract Laboratory Program (CLP)

Audit Number:	6	Site Name:	Richardson Flat Tailings
Date CSF Received:	9/10/08	Site Manager:	Kathryn Hernandez
Received By:	Don Goodrich	Case Number:	37402
Lab Name:	Datachem	SDG Number:	MH2663
Lab Location:	Salt Lake City, Utah	Number of Samples:	18
CLP Lab Code:	DATAC	Resubmitted CSF:	Yes ____ No X

CSF Relinquished By:		
Don Goodrich	10/21/2008	[signature]
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
CSF Relinquished By:		
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CSF Relinquished By:

Print Name	Date	Signature

CSF Received By:

Print Name	Date	Signature

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA Sample No.
MH25A5

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003007

Level: (low/med) LOW Date Received: 06/18/2008

% 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	465.		*	P
7440-36-0	Antimony	115.			P
7440-38-2	Arsenic	22.6			P
7440-39-3	Barium	400.			P
7440-41-7	Beryllium	0.19	J		P
7440-43-9	Cadmium	1.2	J		P
7440-70-2	Calcium	20700			P
7440-47-3	Chromium	1.5	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	46.7			P
7439-89-6	Iron	932.			P
7439-92-1	Lead	222.			P
7439-95-4	Magnesium	3590	J		P
7439-96-5	Manganese	788.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.6	J		P
7440-09-7	Potassium	805.	J		P
7782-49-2	Selenium	4.0	J		P
7440-22-4	Silver	4.0	J		P
7440-23-5	Sodium	8540			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.5	J		P
7440-66-6	Zinc	428.			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.
MH2663

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003001

Level: (low/med) LOW Date Received: 06/18/2008

% 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	781.		*	P
7440-36-0	Antimony	500.			P
7440-38-2	Arsenic	27.7			P
7440-39-3	Barium	375.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	6.1			P
7440-70-2	Calcium	22400			P
7440-47-3	Chromium	4.3	J		P
7440-48-4	Cobalt	0.53	J		P
7440-50-8	Copper	201.			P
7439-89-6	Iron	1220			P
7439-92-1	Lead	1010			P
7439-95-4	Magnesium	3810	J		P
7439-96-5	Manganese	461.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.2	J		P
7440-09-7	Potassium	1850	J		P
7782-49-2	Selenium	10.6	J		P
7440-22-4	Silver	15.5			P
7440-23-5	Sodium	5190	J		P
7440-28-0	Thallium	1.0	J		P
7440-62-2	Vanadium	1.7	J		P
7440-66-6	Zinc	1060			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.
MH2665

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003002

Level: (low/med) LOW Date Received: 06/18/2008

% 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	214.	J	*	P
7440-36-0	Antimony	255.			P
7440-38-2	Arsenic	26.3			P
7440-39-3	Barium	184.	J		P
7440-41-7	Beryllium	0.18	J		P
7440-43-9	Cadmium	5.1	J		P
7440-70-2	Calcium	7620			P
7440-47-3	Chromium	2.5	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	106.			P
7439-89-6	Iron	704.			P
7439-92-1	Lead	779.			P
7439-95-4	Magnesium	1020	J		P
7439-96-5	Manganese	143.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	0.95	J		P
7440-09-7	Potassium	908.	J		P
7782-49-2	Selenium	38.9	U		P
7440-22-4	Silver	5.8	J		P
7440-23-5	Sodium	2920	J		P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	55.6	U		P
7440-66-6	Zinc	819.			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.
MH2667

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003003

Level: (low/med) LOW Date Received: 06/18/2008

% 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	177.	J	*	P
7440-36-0	Antimony	132.			P
7440-38-2	Arsenic	39.4			P
7440-39-3	Barium	240.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	5.3	J		P
7440-70-2	Calcium	12100			P
7440-47-3	Chromium	1.8	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	81.2			P
7439-89-6	Iron	1020			P
7439-92-1	Lead	798.			P
7439-95-4	Magnesium	1550	J		P
7439-96-5	Manganese	136.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.5	J		P
7440-09-7	Potassium	1090	J		P
7782-49-2	Selenium	3.8	J		P
7440-22-4	Silver	5.5	J		P
7440-23-5	Sodium	4610	J		P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.2	J		P
7440-66-6	Zinc	724.			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.
MH2669

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003004

Level: (low/med) LOW Date Received: 06/18/2008

% 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	560.		*	P
7440-36-0	Antimony	52.5	J		P
7440-38-2	Arsenic	3.3	J		P
7440-39-3	Barium	659.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	2.4	J		P
7440-70-2	Calcium	17300			P
7440-47-3	Chromium	1.9	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	30.2			P
7439-89-6	Iron	712.			P
7439-92-1	Lead	152.			P
7439-95-4	Magnesium	3050	J		P
7439-96-5	Manganese	218.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	4.1	J		P
7440-09-7	Potassium	890.	J		P
7782-49-2	Selenium	38.9	U		P
7440-22-4	Silver	0.85	J		P
7440-23-5	Sodium	9230			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.1	J		P
7440-66-6	Zinc	937.			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.
MH2671

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003005

Level: (low/med) LOW Date Received: 06/18/2008

% 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	133.	J	*	P
7440-36-0	Antimony	29.5	J		P
7440-38-2	Arsenic	3.6	J		P
7440-39-3	Barium	226.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	0.89	J		P
7440-70-2	Calcium	18400			P
7440-47-3	Chromium	0.96	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	10.3	J		P
7439-89-6	Iron	268.			P
7439-92-1	Lead	87.2			P
7439-95-4	Magnesium	2710	J		P
7439-96-5	Manganese	60.0			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	0.92	J		P
7440-09-7	Potassium	569.	J		P
7782-49-2	Selenium	2.9	J		P
7440-22-4	Silver	1.3	J		P
7440-23-5	Sodium	5950			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	55.6	U		P
7440-66-6	Zinc	214.			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.
MH2674

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003008

Level: (low/med) LOW Date Received: 06/18/2008

% 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	904.		*	P
7440-36-0	Antimony	53.8	J		P
7440-38-2	Arsenic	5.4	J		P
7440-39-3	Barium	372.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	1.6	J		P
7440-70-2	Calcium	24400			P
7440-47-3	Chromium	1.8	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	23.0	J		P
7439-89-6	Iron	711.			P
7439-92-1	Lead	64.3			P
7439-95-4	Magnesium	4170	J		P
7439-96-5	Manganese	30.9			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.5	J		P
7440-09-7	Potassium	1020	J		P
7782-49-2	Selenium	4.2	J		P
7440-22-4	Silver	0.75	J		P
7440-23-5	Sodium	7190			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.7	J		P
7440-66-6	Zinc	391.			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.
MH2676

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003009

Level: (low/med) LOW Date Received: 06/18/2008

% 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	320.		*	P
7440-36-0	Antimony	39.9	J		P
7440-38-2	Arsenic	8.7	J		P
7440-39-3	Barium	192.	J		P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	1.1	J		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	1.2	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	16.9	J		P
7439-89-6	Iron	551.			P
7439-92-1	Lead	181.			P
7439-95-4	Magnesium	2440	J		P
7439-96-5	Manganese	62.7			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.8	J		P
7440-09-7	Potassium	1030	J		P
7782-49-2	Selenium	2.6	J		P
7440-22-4	Silver	0.64	J		P
7440-23-5	Sodium	5050	J		P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	55.6	U		P
7440-66-6	Zinc	241.			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.
MH2678

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003010

Level: (low/med) LOW Date Received: 06/18/2008

% 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	230.		*	P
7440-36-0	Antimony	12.3	J		P
7440-38-2	Arsenic	11.1	U		P
7440-39-3	Barium	433.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	0.63	J		P
7440-70-2	Calcium	22300			P
7440-47-3	Chromium	5.2	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	6.2	J		P
7439-89-6	Iron	252.			P
7439-92-1	Lead	16.7			P
7439-95-4	Magnesium	2920	J		P
7439-96-5	Manganese	25.4			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.8	J		P
7440-09-7	Potassium	1020	J		P
7782-49-2	Selenium	2.8	J		P
7440-22-4	Silver	11.1	U		P
7440-23-5	Sodium	8540			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	55.6	U		P
7440-66-6	Zinc	97.0			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.
MH2680

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003011

Level: (low/med) LOW Date Received: 06/18/2008

% 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	693.		*	P
7440-36-0	Antimony	79.8			P
7440-38-2	Arsenic	5.3	J		P
7440-39-3	Barium	512.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	1.0	J		P
7440-70-2	Calcium	14500			P
7440-47-3	Chromium	2.5	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	18.9	J		P
7439-89-6	Iron	752.			P
7439-92-1	Lead	143.			P
7439-95-4	Magnesium	2500	J		P
7439-96-5	Manganese	1320			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.2	J		P
7440-09-7	Potassium	1990	J		P
7782-49-2	Selenium	4.1	J		P
7440-22-4	Silver	11.1	U		P
7440-23-5	Sodium	6280			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.5	J		P
7440-66-6	Zinc	200.			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.
MH2682

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003012

Level: (low/med) LOW Date Received: 06/18/2008

% 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	1190		*	P
7440-36-0	Antimony	72.4			P
7440-38-2	Arsenic	55.5			P
7440-39-3	Barium	368.			P
7440-41-7	Beryllium	0.15	J		P
7440-43-9	Cadmium	5.8			P
7440-70-2	Calcium	19500			P
7440-47-3	Chromium	3.5	J		P
7440-48-4	Cobalt	2.1	J		P
7440-50-8	Copper	66.4			P
7439-89-6	Iron	2740			P
7439-92-1	Lead	1500			P
7439-95-4	Magnesium	3090	J		P
7439-96-5	Manganese	973.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.4	J		P
7440-09-7	Potassium	1560	J		P
7782-49-2	Selenium	4.2	J		P
7440-22-4	Silver	8.1	J		P
7440-23-5	Sodium	5720			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.6	J		P
7440-66-6	Zinc	1380			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.
MH2684

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003013

Level: (low/med) LOW Date Received: 06/18/2008

% 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	391.		*	P
7440-36-0	Antimony	121.			P
7440-38-2	Arsenic	11.1	U		P
7440-39-3	Barium	461.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	1.1	J		P
7440-70-2	Calcium	29100			P
7440-47-3	Chromium	1.2	J		P
7440-48-4	Cobalt	2.0	J		P
7440-50-8	Copper	13.8	J		P
7439-89-6	Iron	412.			P
7439-92-1	Lead	50.4			P
7439-95-4	Magnesium	4940	J		P
7439-96-5	Manganese	2550			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.1	J		P
7440-09-7	Potassium	963.	J		P
7782-49-2	Selenium	2.7	J		P
7440-22-4	Silver	11.1	U		P
7440-23-5	Sodium	7930			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	0.93	J		P
7440-66-6	Zinc	552.			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.
MH2687

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003014

Level: (low/med) LOW Date Received: 06/18/2008

% 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	634.		*	P
7440-36-0	Antimony	472.			P
7440-38-2	Arsenic	26.5			P
7440-39-3	Barium	297.			P
7440-41-7	Beryllium	0.17	J		P
7440-43-9	Cadmium	1.6	J		P
7440-70-2	Calcium	15800			P
7440-47-3	Chromium	3.7	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	64.5			P
7439-89-6	Iron	983.			P
7439-92-1	Lead	695.			P
7439-95-4	Magnesium	2650	J		P
7439-96-5	Manganese	344.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.1	J		P
7440-09-7	Potassium	1350	J		P
7782-49-2	Selenium	3.3	J		P
7440-22-4	Silver	4.4	J		P
7440-23-5	Sodium	4610	J		P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.3	J		P
7440-66-6	Zinc	440.			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.
MH2689

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003015

Level: (low/med) LOW Date Received: 06/18/2008

% 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	620.		*	P
7440-36-0	Antimony	50.8	J		P
7440-38-2	Arsenic	16.3			P
7440-39-3	Barium	385.			P
7440-41-7	Beryllium	0.15	J		P
7440-43-9	Cadmium	3.7	J		P
7440-70-2	Calcium	20300			P
7440-47-3	Chromium	2.3	J		P
7440-48-4	Cobalt	0.79	J		P
7440-50-8	Copper	31.0			P
7439-89-6	Iron	1570			P
7439-92-1	Lead	644.			P
7439-95-4	Magnesium	3160	J		P
7439-96-5	Manganese	978.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.7	J		P
7440-09-7	Potassium	2880	J		P
7782-49-2	Selenium	3.0	J		P
7440-22-4	Silver	2.4	J		P
7440-23-5	Sodium	5530	J		P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	0.84	J		P
7440-66-6	Zinc	728.			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.
MH2691

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003016

Level: (low/med) LOW Date Received: 06/18/2008

% 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	615.		*	P
7440-36-0	Antimony	27.5	J		P
7440-38-2	Arsenic	2.8	J		P
7440-39-3	Barium	303.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	0.73	J		P
7440-70-2	Calcium	10800			P
7440-47-3	Chromium	2.0	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	16.1	J		P
7439-89-6	Iron	666.			P
7439-92-1	Lead	96.1			P
7439-95-4	Magnesium	2020	J		P
7439-96-5	Manganese	435.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.8	J		P
7440-09-7	Potassium	1730	J		P
7782-49-2	Selenium	3.9	J		P
7440-22-4	Silver	11.1	U		P
7440-23-5	Sodium	8450			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.1	J		P
7440-66-6	Zinc	175.			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.
MH2693

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003017

Level: (low/med) LOW Date Received: 06/18/2008

% 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	682.		*	P
7440-36-0	Antimony	91.1			P
7440-38-2	Arsenic	9.3	J		P
7440-39-3	Barium	381.			P
7440-41-7	Beryllium	0.16	J		P
7440-43-9	Cadmium	2.7	J		P
7440-70-2	Calcium	12800			P
7440-47-3	Chromium	2.0	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	37.0			P
7439-89-6	Iron	1080			P
7439-92-1	Lead	322.			P
7439-95-4	Magnesium	2220	J		P
7439-96-5	Manganese	466.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.2	J		P
7440-09-7	Potassium	1090	J		P
7782-49-2	Selenium	3.4	J		P
7440-22-4	Silver	1.4	J		P
7440-23-5	Sodium	5910			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.1	J		P
7440-66-6	Zinc	500.			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.
MH2695

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003018

Level: (low/med) LOW Date Received: 06/18/2008

% 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	576.		*	P
7440-36-0	Antimony	112.			P
7440-38-2	Arsenic	5.2	J		P
7440-39-3	Barium	764.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	2.0	J		P
7440-70-2	Calcium	63600			P
7440-47-3	Chromium	2.3	J		P
7440-48-4	Cobalt	0.52	J		P
7440-50-8	Copper	16.4	J		P
7439-89-6	Iron	884.			P
7439-92-1	Lead	152.			P
7439-95-4	Magnesium	6600			P
7439-96-5	Manganese	448.			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	4.7	J		P
7440-09-7	Potassium	1730	J		P
7782-49-2	Selenium	4.4	J		P
7440-22-4	Silver	2.1	J		P
7440-23-5	Sodium	11600			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.3	J		P
7440-66-6	Zinc	545.			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.
MH26D2

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Matrix: (soil/water) WATER Lab Sample ID: 8171003006

Level: (low/med) LOW Date Received: 06/18/2008

% 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	493.		*	P
7440-36-0	Antimony	37.2	J		P
7440-38-2	Arsenic	17.1			P
7440-39-3	Barium	342.			P
7440-41-7	Beryllium	5.6	U		P
7440-43-9	Cadmium	1.3	J		P
7440-70-2	Calcium	13700			P
7440-47-3	Chromium	2.0	J		P
7440-48-4	Cobalt	55.6	U		P
7440-50-8	Copper	28.4			P
7439-89-6	Iron	786.			P
7439-92-1	Lead	227.			P
7439-95-4	Magnesium	2280	J		P
7439-96-5	Manganese	84.6			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.4	J		P
7440-09-7	Potassium	644.	J		P
7782-49-2	Selenium	38.9	U		P
7440-22-4	Silver	2.4	J		P
7440-23-5	Sodium	6460			P
7440-28-0	Thallium	27.8	U		P
7440-62-2	Vanadium	1.4	J		P
7440-66-6	Zinc	309.			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: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Initial Calibration Verification Source: ICV-1(1201)

Continuing Calibration Verification Source: C.P.I.

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2482	2531	102	25000	24763	99	24549	98	P
Antimony	992.0	981.87	99	5000	4951	99	4958	99	P
Arsenic	996.0	982.55	99	750.0	735.35	98	732.57	98	P
Barium	502.0	507.64	101	5000	4998	100	4983	100	P
Beryllium	493.0	492.43	100	750.0	761.78	102	754.44	101	P
Cadmium	494.0	486.41	98	750.0	763.30	102	761.46	102	P
Calcium	10180	9968	98	25000	25006	100	24435	98	P
Chromium	490.0	491.90	100	5000	4968	99	4975	100	P
Cobalt	496.0	494.74	100	5000	4917	98	4916	98	P
Copper	490.0	491.44	100	5000	4956	99	4972	99	P
Iron	5107	5098	100	25000	25037	100	24616	98	P
Lead	996.0	983.52	99	750.0	765.69	102	761.94	102	P
Magnesium	6003	5916	99	25000	24954	100	24776	99	P
Manganese	495.0	504.71	102	5000	4994	100	4929	99	P
Mercury									NR
Nickel	492.0	490.51	100	5000	4890	98	4879	98	P
Potassium	10008	9835	98	25000	24643	99	24574	98	P
Selenium	1005	1004	100	750.0	763.42	102	763.80	102	P
Silver	495.0	494.37	100	750.0	770.72	103	773.81	103	P
Sodium	10039	9827	98	25000	24772	99	24810	99	P
Thallium	1027	1035	101	750.0	715.92	95	717.48	96	P
Vanadium	501.0	493.22	98	5000	5062	101	5061	101	P
Zinc	1000	1007	101	5000	4965	99	4945	99	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: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: C.P.I.

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					M
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				25000	24528	98	24448	98	P
Antimony				5000	4915	98	4951	99	P
Arsenic				750.0	727.66	97	733.09	98	P
Barium				5000	4943	99	4982	100	P
Beryllium				750.0	752.22	100	749.51	100	P
Cadmium				750.0	757.27	101	758.43	101	P
Calcium				25000	24483	98	24071	96	P
Chromium				5000	4943	99	4967	99	P
Cobalt				5000	4882	98	4895	98	P
Copper				5000	4947	99	4938	99	P
Iron				25000	24603	98	24426	98	P
Lead				750.0	759.40	101	761.56	102	P
Magnesium				25000	24785	99	24636	99	P
Manganese				5000	4927	99	4888	98	P
Mercury									NR
Nickel				5000	4847	97	4861	97	P
Potassium				25000	24527	98	24691	99	P
Selenium				750.0	763.97	102	767.51	102	P
Silver				750.0	769.23	103	767.05	102	P
Sodium				25000	24822	99	24971	100	P
Thallium				750.0	712.58	95	717.83	96	P
Vanadium				5000	5008	100	4979	100	P
Zinc				5000	4942	99	4899	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: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

CRQL Check Standard Source: I.V.

Concentration Units: ug/L

	CRDL Check Standard				
	Initial			Final	
Analyte	True	Found*	%R(1)	Found*	%R(1)
Aluminum	200.00	206.79	103	214.26	107
Antimony	60.00	58.57J	98	58.95J	98
Arsenic	10.00	10.00	100	8.16J	82
Barium	200.00	204.63	102	203.32	102
Beryllium	5.00	5.04	101	5.06	101
Cadmium	5.00	4.97J	99	4.93J	99
Calcium	5000.00	4968.00J	99	4902.63J	98
Chromium	10.00	10.03	100	9.85J	99
Cobalt	50.00	49.84J	100	49.56J	99
Copper	25.00	24.86J	99	24.74J	99
Iron	100.00	101.32	101	105.06	105
Lead	10.00	9.60J	96	8.71J	87
Magnesium	5000.00	4951.50J	99	4893.43J	98
Manganese	15.00	15.16	101	15.26	102
Mercury					
Nickel	40.00	40.04	100	39.78J	99
Potassium	5000.00	4888.03J	98	4882.70J	98
Selenium	35.00	33.94J	97	34.81J	99
Silver	10.00	9.90J	99	9.27J	93
Sodium	5000.00	4906.87J	98	4899.43J	98
Thallium	25.00	25.08	100	24.26J	97
Vanadium	50.00	50.39	101	48.84J	98
Zinc	60.00	60.62	101	60.04	100
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: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

CRQL Check Standard Source: I.V.

Concentration Units: ug/L

	CRDL Check Standard				
	Initial			Final	
Analyte	True	Found*	%R(1)	Found*	%R(1)
Aluminum	200.00			194.01J	97
Antimony	60.00			58.80J	98
Arsenic	10.00			9.05J	91
Barium	200.00			204.53	102
Beryllium	5.00			5.07	101
Cadmium	5.00			4.94J	99
Calcium	5000.00			4926.03J	99
Chromium	10.00			9.89J	99
Cobalt	50.00			49.62J	99
Copper	25.00			24.89J	100
Iron	100.00			100.98	101
Lead	10.00			9.93J	99
Magnesium	5000.00			4892.70J	98
Manganese	15.00			15.36	102
Mercury					
Nickel	40.00			39.70J	99
Potassium	5000.00			4916.47J	98
Selenium	35.00			33.90J	97
Silver	10.00			9.47J	95
Sodium	5000.00			4941.87J	99
Thallium	25.00			23.87J	95
Vanadium	50.00			49.65J	99
Zinc	60.00			59.95J	100
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: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Preparation Blank Matrix (soil/water): WATER

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

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	222.222	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	66.667	U	P
Arsenic	10.000	U	-2.342	J	10.000	U	-1.844	J	-5.318	J	P
Barium	200.000	U	200.000	U	0.357	J	0.363	J	0.594	J	P
Beryllium	5.000	U	0.129	J	0.121	J	0.201	J	5.556	U	P
Cadmium	5.000	U	5.000	U	0.111	J	5.000	U	5.556	U	P
Calcium	5000.000	U	7.814	J	5000.000	U	15.007	J	71.303	J	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	11.111	U	P
Cobalt	50.000	U	0.325	J	50.000	U	50.000	U	-0.473	J	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	27.778	U	P
Iron	100.000	U	9.601	J	100.000	U	10.785	J	42.488	J	P
Lead	1.043	J	10.000	U	1.153	J	10.000	U	11.111	U	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5555.556	U	P
Manganese	15.000	U	0.310	J	15.000	U	0.607	J	16.667	U	P
Mercury											NR
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	44.444	U	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5555.556	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	38.889	U	P
Silver	-0.914	J	-1.041	J	-1.119	J	-1.380	J	-2.022	J	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5555.556	U	P
Thallium	25.000	U	25.000	U	25.000	U	-0.793	J	27.778	U	P
Vanadium	50.000	U	50.000	U	50.000	U	0.446	J	55.556	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	3.171	J	P
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Preparation Blank Matrix (soil/water): WATER

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

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum			21.413	J							P
Antimony			60.000	U							P
Arsenic			10.000	U							P
Barium			0.510	J							P
Beryllium			0.104	J							P
Cadmium			0.093	J							P
Calcium			13.313	J							P
Chromium			10.000	U							P
Cobalt			50.000	U							P
Copper			25.000	U							P
Iron			9.811	J							P
Lead			10.000	U							P
Magnesium			5000.000	U							P
Manganese			0.447	J							P
Mercury											NR
Nickel			40.000	U							P
Potassium			5000.000	U							P
Selenium			35.000	U							P
Silver			-1.807	J							P
Sodium			5000.000	U							P
Thallium			25.000	U							P
Vanadium			50.000	U							P
Zinc			60.000	U							P
Cyanide											NR

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP-AES Instrument ID: ICP07 ICS Source: EPA(1206)

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		254000	104			252000	103		
Antimony	0.0		-2.5				-2.2			
Arsenic	0.0		-2.4				-2.3			
Barium	2.0		2.5	125			2.5	125		
Beryllium	0.0		0.60				0.50			
Cadmium	0.0		2.0				2.3			
Calcium	235000		250000	106			245000	104		
Chromium	32.0		48.1	150			48.1	150		
Cobalt	4.0		2.6	65			2.6	65		
Copper	23.0		25.4	110			25.7	112		
Iron	95600		98800	103			97200	102		
Lead	10.0		22.1	221			25.1	251		
Magnesium	248000		269000	109			268000	108		
Manganese	19.0		20.3	107			19.9	105		
Nickel	21.0		23.8	113			23.8	113		
Potassium	0.0		-4.3				16.0			
Selenium	0.0		1.2				1.3			
Silver	0.0		11.2				10.3			
Sodium	0.0		819.				821.			
Thallium	0.0		3.6				3.9			
Vanadium	0.0		-12.8				-13.5			
Zinc	28.0		33.8	121			34.4	123		

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP-AES Instrument ID: ICP07 ICS Source: EPA(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		241000			255000	106			253000	105
Antimony		589.			654.	111			653.	111
Arsenic		101.			110.	109			108.	107
Barium		495.			518.	105			518.	105
Beryllium		475.			509.	107			505.	106
Cadmium		940.			1040	111			1030	110
Calcium		231000			250000	108			247000	107
Chromium		511.			573.	112			575.	113
Cobalt		461.			523.	113			523.	113
Copper		548.			561.	102			559.	102
Iron		94800			98600	104			97800	103
Lead		61.0			78.6	129			77.6	127
Magnesium		251000			269000	107			268000	107
Manganese		502.			531.	106			528.	105
Nickel		984.			1080	110			1080	110
Potassium		0.0			18.2				24.9	
Selenium		53.0			57.9	109			56.3	106
Silver		206.			224.	109			221.	107
Sodium		0.0			831.				837.	
Thallium		103.			112.	109			112.	109
Vanadium		494.			492.	100			485.	98
Zinc		1030			1080	105			1070	104

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP-AES Instrument ID: ICP07 ICS Source: EPA(1206)

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						254000	104		
Antimony	0.0						-5.2			
Arsenic	0.0						-1.6			
Barium	2.0						2.5	125		
Beryllium	0.0						0.56			
Cadmium	0.0						2.2			
Calcium	235000						245000	104		
Chromium	32.0						48.0	150		
Cobalt	4.0						2.8	70		
Copper	23.0						25.7	112		
Iron	95600						97200	102		
Lead	10.0						18.9	189		
Magnesium	248000						268000	108		
Manganese	19.0						20.0	105		
Nickel	21.0						24.2	115		
Potassium	0.0						27.3			
Selenium	0.0						0.56			
Silver	0.0						9.9			
Sodium	0.0						846.			
Thallium	0.0						3.0			
Vanadium	0.0						-13.7			
Zinc	28.0						33.7	120		

USEPA - CLP

4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP-AES Instrument ID: ICP07 ICS Source: EPA(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		241000							253000	105
Antimony		589.							652.	111
Arsenic		101.							104.	103
Barium		495.							509.	103
Beryllium		475.							500.	105
Cadmium		940.							1020	109
Calcium		231000							243000	105
Chromium		511.							576.	113
Cobalt		461.							522.	113
Copper		548.							558.	102
Iron		94800							96000	101
Lead		61.0							75.4	124
Magnesium		251000							267000	106
Manganese		502.							521.	104
Nickel		984.							1070	109
Potassium		0.0							35.9	
Selenium		53.0							59.7	113
Silver		206.							221.	107
Sodium		0.0							852.	
Thallium		103.							111.	108
Vanadium		494.							474.	96
Zinc		1030							1060	103

USEPA - CLP

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA Sample No.
MH2695S

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

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	2693.7778		576.1186		2000.00	106		P
Antimony	75-125	208.3703		111.6714		100.00	97		P
Arsenic	75-125	45.8837		5.1703	J	40.00	102		P
Barium	75-125	2817.8148		764.0481		2000.00	103		P
Beryllium	75-125	49.3511		5.5556	U	50.00	99		P
Cadmium	75-125	52.3181		1.9691	J	50.00	101		P
Calcium									NR
Chromium	75-125	211.4259		2.3238	J	200.00	105		P
Cobalt	75-125	510.7741		0.5172	J	500.00	102		P
Copper	75-125	266.9889		16.4281	J	250.00	100		P
Iron	75-125	2067.0370		883.9630		1000.00	118		P
Lead		178.2778		152.0703		20.00	131		P
Magnesium									NR
Manganese	75-125	950.8592		448.0186		500.00	101		P
Mercury									NR
Nickel	75-125	506.8963		4.6504	J	500.00	100		P
Potassium									NR
Selenium	75-125	53.7556		4.4069	J	50.00	99		P
Silver	75-125	51.0203		2.0636	J	50.00	98		P
Sodium									NR
Thallium	75-125	50.9056		27.7778	U	50.00	102		P
Vanadium	75-125	492.8481		1.3052	J	500.00	98		P
Zinc	75-125	1048.0074		544.5259		500.00	101		P
Cyanide									NR

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA Sample No.

MH2695D

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

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	222.222	576.1186		809.3222		34	*	P
Antimony	66.667	111.6714		109.9203		2		P
Arsenic		5.1703	J	3.5463	J	37		P
Barium	222.222	764.0481		772.7741		1		P
Beryllium		5.5556	U	5.5556	U			P
Cadmium		1.9691	J	2.0108	J	2		P
Calcium		63557.0370		62874.8148		1		P
Chromium		2.3238	J	2.6661	J	14		P
Cobalt		0.5172	J	55.5556	U	200		P
Copper		16.4281	J	17.9667	J	9		P
Iron		883.9630		1049.5889		17		P
Lead		152.0703		159.0333		4		P
Magnesium	5555.556	6598.8519		6643.5926		1		P
Manganese		448.0186		446.1519		0		P
Mercury								NR
Nickel		4.6504	J	4.6237	J	1		P
Potassium		1728.8148	J	1795.3333	J	4		P
Selenium		4.4069	J	3.3409	J	28		P
Silver		2.0636	J	2.5377	J	21		P
Sodium	5555.556	11622.9630		11639.6297		0		P
Thallium		27.7778	U	27.7778	U			P
Vanadium		1.3052	J	1.5732	J	19		P
Zinc		544.5259		552.2592		1		P
Cyanide								NR

USEPA - CLP

7-IN
LABORATORY CONTROL SAMPLE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Solid LCS Source: _____

Aqueous LCS Source: ICV-1(1201)

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	2482.0	2575.96	104						
Antimony	992.0	1025.58	103						
Arsenic	996.0	1023.21	103						
Barium	502.0	527.34	105						
Beryllium	493.0	496.50	101						
Cadmium	494.0	512.03	104						
Calcium	10180.0	10117.11	99						
Chromium	490.0	524.71	107						
Cobalt	496.0	523.61	106						
Copper	490.0	509.06	104						
Iron	5107.0	5187.96	102						
Lead	996.0	1035.94	104						
Magnesium	6003.0	5970.56	99						
Manganese	495.0	515.19	104						
Mercury									
Nickel	492.0	518.39	105						
Potassium	10008.0	10125.56	101						
Selenium	1005.0	1024.15	102						
Silver	495.0	506.54	102						
Sodium	10039.0	10140.85	101						
Thallium	1027.0	1079.21	105						
Vanadium	501.0	511.75	102						
Zinc	1000.0	1049.73	105						
Cyanide									

USEPA - CLP

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA Sample No.

MH2695L

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

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	518.51		610.38	J	18		P
Antimony	-100.50		95.09	J	5		P
Arsenic	4.65	J	50.00	U	100		P
Barium	687.64		690.47	J	0		P
Beryllium	5.00	U	25.00	U			P
Cadmium	1.77	J	1.55	J	12		P
Calcium	57201.33		57690.00		1		P
Chromium	2.09	J	1.92	J	8		P
Cobalt	0.47	J	250.00	U	100		P
Copper	14.79	J	125.00	U	100		P
Iron	795.57		811.27		2		P
Lead	136.86		141.10		3		P
Magnesium	5938.97		6005.33	J	1		P
Manganese	403.22		407.44		1		P
Nickel	4.19	J	200.00	U	100		P
Potassium	1555.93	J	1758.87	J	13		P
Selenium	3.97	J	16.97	J	327		P
Silver	1.86	J	50.00	U	100		P
Sodium	10460.67		10427.67	J	0		P
Thallium	25.00	U	125.00	U			P
Vanadium	1.17	J	250.00	U	100		P
Zinc	490.07		484.62		1		P

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Instrument Type: P Instrument ID: ICP07 Date: 01/12/2008

Preparation Method: NP1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.22	200	20.0
Antimony	206.83	60	1.8
Arsenic	189.04	10	1.5
Barium	455.40	200	0.33
Beryllium	313.11	5.0	0.089
Cadmium	214.44	5.0	0.084
Calcium	317.93	5000	5.9
Chromium	205.55	10	0.73
Cobalt	228.62	50	0.32
Copper	324.75	25	2.6
Iron	259.94	100	9.0
Lead	220.35	10	0.94
Magnesium	279.08	5000	26.7
Manganese	257.61	15	0.26
Mercury			
Nickel	231.60	40	1.7
Potassium	766.49	5000	80.4
Selenium	196.09	35	2.6
Silver	328.07	10	0.28
Sodium	589.59	5000	41.6
Thallium	190.86	25	0.77
Vanadium	292.40	50	0.40
Zinc	206.20	60	2.7
Cyanide			

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Instrument Type: P Instrument ID: ICP07 Date: 01/09/2008

Preparation Method: MW1

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

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.22	200	25.7
Antimony	206.83	60	1.8
Arsenic	189.04	10	1.5
Barium	455.40	200	0.34
Beryllium	313.11	5.0	0.14
Cadmium	214.44	5.0	0.12
Calcium	317.93	5000	23.3
Chromium	205.55	10	0.37
Cobalt	228.62	50	0.44
Copper	324.75	25	2.9
Iron	259.94	100	3.3
Lead	220.35	10	1.2
Magnesium	279.08	5000	23.7
Manganese	257.61	15	0.57
Mercury			
Nickel	231.60	40	0.89
Potassium	766.49	5000	40.8
Selenium	196.09	35	2.4
Silver	328.07	10	0.48
Sodium	589.59	5000	13.0
Thallium	190.86	25	0.81
Vanadium	292.40	50	0.81
Zinc	206.20	60	2.3
Cyanide			

Comments:

USEPA - CLP

10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP-AES Instrument ID: ICP07 Date: 04/16/2008

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	V
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0281000
Antimony	206.83	0.0000000	0.0000000	0.0001380	0.0000000	0.0000000
Arsenic	189.04	-0.0000240	0.0000000	-0.0000900	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	-0.0000070	0.0000000	0.0000490	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	205.55	0.0000050	0.0000000	-0.0000070	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0001480	0.0000000	0.0000710	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000200	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000230	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0000080	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0002300	0.0000000	0.0019970
Vanadium	292.40	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000

Comments:

USEPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP-AES Instrument ID: ICP07 Date: 04/16/2008

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Co	Mn	Be
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0053630	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	205.55	0.0000000	0.0000000	0.0000000	0.0000000	0.0003400
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0000040	0.0001810	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0005780	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000320	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0002270	0.0000000	0.0031730	0.0008690	0.0000000
Vanadium	292.40	-0.0014760	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0004230	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA - CLP

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

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP-AES Instrument ID: ICP07 Date: 04/16/2008

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	Mo	Ti		
Aluminum	308.22	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.11	0.0000000	0.0000000	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	317.93	0.0000000	0.0000000	0.0000000		
Chromium	205.55	-0.0005380	0.0000000	0.0000000		
Cobalt	228.62	0.0000000	0.0000000	0.0022060		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0002310	-0.0021710	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Molybdenum	202.03	0.0000000	0.0000000	0.0000000		
Nickel	231.60	0.0000000	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0004470		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Titanium	334.94	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	-0.0089620	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

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11-IN

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

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

ICP Instrument ID: ICP07 Date: 04/16/2008

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	8.00	500000	P
Antimony	20.00	90000	P
Arsenic	20.00	10000	P
Barium	8.00	40000	P
Beryllium	8.00	40000	P
Cadmium	20.00	7000	P
Calcium	8.00	700000	P
Chromium	20.00	40000	P
Cobalt	20.00	70000	P
Copper	20.00	30000	P
Iron	8.00	220000	P
Lead	20.00	50000	P
Magnesium	8.00	1000000	P
Manganese	20.00	75000	P
Nickel	20.00	90000	P
Potassium	8.00	250000	P
Selenium	20.00	20000	P
Silver	8.00	2000	P
Sodium	8.00	250000	P
Thallium	20.00	17500	P
Vanadium	8.00	17500	P
Zinc	20.00	12500	P

Comments:

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12-IN
PREPARATION LOG

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Preparation Method: MW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
PBW	06/24/2008		50
LCSW	06/24/2008		50
MH25A5	06/24/2008		50
MH2663	06/24/2008		50
MH2665	06/24/2008		50
MH2667	06/24/2008		50
MH2669	06/24/2008		50
MH2671	06/24/2008		50
MH2674	06/24/2008		50
MH2676	06/24/2008		50
MH2678	06/24/2008		50
MH2680	06/24/2008		50
MH2682	06/24/2008		50
MH2684	06/24/2008		50
MH2687	06/24/2008		50
MH2689	06/24/2008		50
MH2691	06/24/2008		50
MH2693	06/24/2008		50
MH2695	06/24/2008		50
MH2695D	06/24/2008		50
MH2695S	06/24/2008		50
MH26D2	06/24/2008		50

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13-IN
ANALYSIS RUN LOG

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Instrument ID: ICP07 Analysis Method: P

Start Date: 06/27/2008 End Date: 06/27/2008

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	1333	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S1500	1.0	1338			X		X	X						X						X	X		X					
S10000	1.0	1343		X		X				X	X	X				X		X						X	X			
S50000	1.0	1348	X						X				X		X				X			X						
ICV	1.0	1352	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1357	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRII	1.0	1402	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAI	1.0	1407	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSABI	1.0	1412	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	1417	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	1422	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	1427	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	1432	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2695	1.0	1437	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2695S	1.0	1442	X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
MH2695D	1.0	1446	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2695L	5.0	1451	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2663	1.0	1456	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2665	1.0	1501	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2667	1.0	1506	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2669	1.0	1511	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV2	1.0	1516	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB2	1.0	1521	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2671	1.0	1525	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH26D2	1.0	1530	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH25A5	1.0	1535	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2674	1.0	1540	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2676	1.0	1545	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2678	1.0	1550	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2680	1.0	1555	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CRIF	1.0	1600	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAF	1.0	1605	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSABF	1.0	1610	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV3	1.0	1615	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB3	1.0	1620	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2682	1.0	1625	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: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37402 NRAS No.: 1553.0 SDG No.: MH2663

Instrument ID: ICP07 Analysis Method: P

Start Date: 06/27/2008 End Date: 06/27/2008

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		
MH2684	1.0	1630	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2687	1.0	1634	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2689	1.0	1639	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2691	1.0	1644	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MH2693	1.0	1649	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	1654																										
CRIF2	1.0	1659	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAF2	1.0	1704	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSABF2	1.0	1709	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV4	1.0	1714	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB4	1.0	1719	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

Sample Name: S0 Acquired: 6/27/2008 13:33:14 Type: Cal
Method: ICP07 ILM05.4 2008(v2) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG: MY43C7 CASE: 37512 Prep: HS1
Comment:

i08154
Joanna C. Sanchez 6/27/08
JK

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00033**	**-.00070**	**-.00177**	**.00103**	**-.00008**	**.00066**	**.00039**
Stddev	.00002	.00008	.00015	.00008	.00007	.00013	.00010
%RSD	6.9352	11.675	8.4763	7.8171	77.674	19.636	24.985
#1	.00031	-.00077	-.00193	.00099	-.00013	.00052	.00038
#2	.00035	-.00072	-.00173	.00097	-.00011	.00078	.00030
#3	.00035	-.00061	-.00164	.00112	-.00001	.00068	.00049

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00105**	**-.00052**	**.00059**	**.00011**	**.00088**	**.00000**	**-.00001**
Stddev	.00016	.00007	.00001	.00005	.00052	.0000	.00004
%RSD	15.572	14.112	1.1430	46.454	59.430	3346.7	572.47
#1	.00087	-.00059	.00058	.00008	.00072	-.00003	-.00003
#2	.00119	-.00052	.00060	.00007	.00146	.00001	-.00002
#3	.00110	-.00045	.00059	.00016	.00045	.00002	.00003

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0008**	**.00187**	**-.00197**	**.00092**	**.00206**	**-.00018**	**.0001**
Stddev	.0002	.00018	.00013	.00014	.00001	.00007	.0001
%RSD	29.46	9.4019	6.3588	14.787	.57372	36.374	70.85
#1	.0009	.00203	-.00185	.00083	.00207	-.00022	.0001
#2	.0005	.00168	-.00210	.00086	.00205	-.00022	.0000
#3	.0009	.00191	-.00196	.00108	.00206	-.00011	.0002

Elem	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**.00002**	**.00089**
Stddev	.00009	.00000	.00008
%RSD	140.74	15.368	9.3432
#1	-.00003	.00002	.00079
#2	.00006	.00002	.00095
#3	.00015	.00002	.00092

Sample Name: S0 Acquired: 6/27/2008 13:33:14 Type: Cal
Method: ICP07 ILM05.4 2008(v2) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG: MY43C7 CASE: 37512 Prep: HS1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2029.7**	**64573.**	**381890.**
Stddev	.8	132.	841.
%RSD	.04187	.20418	.22016
#1	2029.4	64662.	381860.
#2	2029.0	64636.	382740.
#3	2030.6	64422.	381060.

Sample Name: S1500 Acquired: 6/27/2008 13:38:11 Type: Cal
Method: ICP07 ILM05.4 2008(v2) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG: MY43C7 CASE: 37512 Prep: HS1
Comment:

Elem	As1890	Be3131	Cd2144	Pb2203	Se1960	Ag3280	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.22630**	**1.1822**	**4.5733**	**.37782**	**.15127**	**.05185**	**.34367**
Stddev	.00057	.0026	.0049	.00072	.00033	.00003	.00051
%RSD	.24986	.22016	.10597	.19180	.21511	.05378	.14695
#1	.22586	1.1844	4.5677	.37735	.15151	.05184	.34311
#2	.22694	1.1828	4.5762	.37865	.15141	.05184	.34383
#3	.22609	1.1793	4.5759	.37746	.15090	.05188	.34408

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2024.5**	**64701.**	**382290.**
Stddev	1.7	136.	134.
%RSD	.08441	.21083	.03510
#1	2026.5	64554.	382400.
#2	2023.7	64727.	382140.
#3	2023.4	64823.	382340.

Sample Name: S10000 Acquired: 6/27/2008 13:43:04 Type: Cal
Method: ICP07 ILM05.4 2008(v2) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG: MY43C7 CASE: 37512 Prep: HS1
Comment:

Elem	Sb2068	Ba4554	Cr2055	Co2286	Cu3247	Mn2576	Mo2020	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.0961**	**6.1150**	**16.315**	**9.7155**	**.66885**	**1.3028**	**11.35**	**4.6435**
Stddev	.0063	.0127	.044	.0291	.00158	.0032	.03	.0105
%RSD	.29831	.20826	.26897	.29926	.23564	.24265	.2803	.22547
#1	2.0917	6.1165	16.284	9.6950	.67023	1.3062	11.33	4.6362
#2	2.0933	6.1016	16.297	9.7028	.66917	1.3020	11.33	4.6388
#3	2.1033	6.1269	16.365	9.7488	.66713	1.3000	11.39	4.6555

Elem	Ti3349	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**1.515**	**.15781**	**6.5487**
Stddev	.003	.00043	.0118
%RSD	.2050	.27264	.18098
#1	1.518	.15830	6.5376
#2	1.516	.15753	6.5475
#3	1.512	.15759	6.5612

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1977.4**	**64830.**	**381500.**
Stddev	6.0	203.	1216.
%RSD	.30141	.31375	.31874
#1	1981.1	64610.	380690.
#2	1980.7	64869.	380910.
#3	1970.6	65012.	382900.

Sample Name: S50000 Acquired: 6/27/2008 13:48:02 Type: Cal
Method: ICP07 ILM05.4 2008(v2) Mode: IR Corr. Factor: 1.000000
User: sanchezjc SDG: MY43C7 CASE: 37512 Prep: HS1
Comment:

Elem	Al3082	Ca3179	Fe2599	Mg2790	K_7664	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13911**	**.98419**	**1.2716**	**.11769**	**.34407**	**1.4834**
Stddev	.00022	.00295	.0018	.00013	.00073	.0029
%RSD	.15635	.29999	.13992	.10740	.21184	.19592
#1	.13919	.98319	1.2715	.11769	.34471	1.4846
#2	.13927	.98186	1.2699	.11756	.34422	1.4856
#3	.13886	.98751	1.2734	.11782	.34328	1.4801

Int. Std.	Sc3613
Units	Cts/S
Avg	**63726.**
Stddev	116.
%RSD	.18205
#1	63742.
#2	63833.
#3	63603.

Sample Name: ICV Acquired: 6/27/2008 13:52:57 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2530.9**	**981.87**	**982.55**	**507.64**	**492.43**	**486.41**	**9968.4**	**491.90**	**494.75**
Stddev	17.7	.73	1.52	.98	.99	1.70	14.8	1.26	1.13
%RSD	.70077	.07412	.15519	.19345	.20040	.34910	.14884	.25622	.22847
#1	2550.8	982.45	982.52	508.13	493.13	486.66	9985.3	490.78	493.59
#2	2516.8	982.10	981.04	508.29	492.86	484.60	9957.3	491.66	494.79
#3	2525.2	981.05	984.09	506.51	491.30	487.97	9962.8	493.26	495.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**491.44**	**5097.7**	**983.52**	**5915.7**	**504.71**	**.2427**	**490.51**	**9835.4**	**1004.1**
Stddev	1.31	10.3	5.01	39.6	1.03	.2728	.81	51.3	5.3
%RSD	.26664	.20142	.50990	.66953	.20435	112.4	.16429	.52128	.52320
#1	492.87	5108.5	986.98	5958.2	505.90	-.0465	490.82	9866.6	1007.6
#2	491.15	5096.5	977.77	5908.9	504.02	.4955	491.12	9863.3	998.07
#3	490.30	5088.0	985.80	5879.9	504.21	.2792	489.60	9776.2	1006.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**494.37**	**9827.0**	**3.370**	**1035.3**	**493.22**	**1007.5**
Stddev	.91	32.6	.075	3.5	1.26	2.6
%RSD	.18495	.33225	2.219	.34202	.25645	.25849
#1	495.01	9835.3	3.284	1032.8	492.29	1007.1
#2	494.78	9854.7	3.405	1033.9	494.66	1005.1
#3	493.32	9791.0	3.421	1039.4	492.71	1010.2
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 6/27/2008 13:52:57 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2008.1**	**64536.**	**379770.**
Stddev	2.5	5.	884.
%RSD	.12215	.00816	.23266
#1	2007.4	64539.	379380.
#2	2010.8	64530.	379150.
#3	2006.0	64539.	380780.

Sample Name: ICB Acquired: 6/27/2008 13:57:40 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.5351**	**-.65847**	**-1.1759**	**.00720**	**.07801**	**-.00006**	**-1.9281**	**-.08778**
Stddev	15.351	1.1850	.7457	.09136	.04705	.02213	1.3283	.04640
%RSD	277.33	179.96	63.421	1268.2	60.309	35407.	68.894	52.855
#1	22.122	-1.3328	-2.0214	.09193	.04539	-.01368	-3.1626	-.13481
#2	-8.1718	-1.3523	-.61177	-.08959	.05670	-.01197	-2.0993	-.04205
#3	2.6555	.70975	-.89443	.01928	.13195	.02547	-.52248	-.08648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.24989**	**.02719**	**.01776**	**1.0425**	**-19.873**	**-.02930**	**.2868**	**-.64271**
Stddev	.23985	.16679	.40274	.8960	9.008	.21235	.1406	.02232
%RSD	95.983	613.52	2268.3	85.945	45.330	724.85	49.02	3.4722
#1	-.01904	.02237	-.42334	1.8176	-11.814	.16404	.3490	-.66685
#2	-.23280	-.13715	.11072	.06145	-29.598	.00464	.3855	-.63846
#3	-.49782	.19633	.36588	1.2486	-18.207	-.25657	.1258	-.62283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**32.805**	**.30081**	**-.91443**	**1.6351**	**.3396**	**.34985**	**-.10592**	**-.00864**
Stddev	11.596	1.5849	.37822	2.1212	.1552	.44564	.35441	.06957
%RSD	35.348	526.86	41.361	129.73	45.69	127.38	334.60	805.07
#1	43.882	1.3039	-.93857	-.67547	.3650	.79632	.28978	.06900
#2	20.752	-1.5263	-.52472	2.0865	.4806	.34819	-.21335	-.02962
#3	33.781	1.1249	-1.2800	3.4942	.1733	-.09495	-.39419	-.06530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB Acquired: 6/27/2008 13:57:40 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2038.5**	**64889.**	**384870.**
Stddev	1.5	55.	1152.
%RSD	.07480	.08422	.29942
#1	2036.7	64946.	384920.
#2	2039.5	64882.	383700.
#3	2039.3	64838.	386000.

Sample Name: CRII Acquired: 6/27/2008 14:02:38 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**206.79**	**58.573**	**10.003**	**204.62**	**5.0390**	**4.9744**	**4968.0**	**10.033**	**49.838**
Stddev	10.14	1.196	1.691	.25	.0359	.0325	10.9	.167	.171
%RSD	4.9011	2.0420	16.904	.12049	.71149	.65250	.21853	1.6598	.34307
#1	217.60	57.234	11.328	204.82	5.0635	4.9434	4979.3	9.8953	49.926
#2	205.26	59.537	8.0984	204.35	5.0556	4.9715	4957.6	9.9852	49.641
#3	197.51	58.947	10.581	204.71	4.9979	5.0081	4967.1	10.218	49.946
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24.860**	**101.32**	**9.6033**	**4951.5**	**15.162**	**.2335**	**40.037**	**4888.0**	**33.945**
Stddev	.161	1.51	2.0771	21.9	.168	.1632	.504	28.6	1.743
%RSD	.64749	1.4947	21.629	.44308	1.1099	69.89	1.2586	.58520	5.1346
#1	25.008	99.756	7.3446	4974.2	15.093	.0470	39.457	4892.3	34.773
#2	24.884	102.78	11.431	4930.4	15.354	.3031	40.288	4914.3	31.942
#3	24.689	101.42	10.034	4949.9	15.039	.3503	40.366	4857.5	35.119
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9.9005**	**4906.9**	**.6626**	**25.084**	**50.386**	**60.616**
Stddev	.4835	9.2	.5386	.317	.395	.281
%RSD	4.8836	.18653	81.28	1.2629	.78409	.46323
#1	10.444	4917.4	.5775	24.783	50.696	60.579
#2	9.7400	4902.4	.1716	25.414	50.521	60.355
#3	9.5177	4900.8	1.239	25.054	49.941	60.913
Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRII Acquired: 6/27/2008 14:02:38 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2025.5**	**64957.**	**382530.**
Stddev	2.5	7.	1043.
%RSD	.12468	.01025	.27265
#1	2024.0	64965.	381390.
#2	2028.4	64954.	383430.
#3	2024.0	64953.	382760.

Sample Name: ICSAI Acquired: 6/27/2008 14:07:34 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**254170.**	**-2.5209**	**-2.4353**	**2.4829**	**.59605**	**2.0427**	**250170.**
Stddev	379.	2.4748	.9615	.0992	.04982	.0424	830.
%RSD	.14902	98.173	39.484	3.9961	8.3581	2.0741	.33172
#1	254000.	-2.0167	-2.6489	2.4408	.63666	2.0916	249490.
#2	253910.	-5.2089	-3.2720	2.5962	.61103	2.0203	251100.
#3	254610.	-.33696	-1.3849	2.4117	.54046	2.0163	249940.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**48.050**	**2.5919**	**25.352**	**98841.**	**22.053**	**268780.**	**20.293**
Stddev	.270	.4449	.257	74.	2.449	134.	.179
%RSD	.56219	17.166	1.0133	.07471	11.104	.04982	.88334
#1	48.038	2.0788	25.260	98879.	24.764	268930.	20.415
#2	48.326	2.8716	25.153	98756.	21.393	268660.	20.087
#3	47.786	2.8253	25.642	98889.	20.002	268760.	20.378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.8837**	**23.821**	**-4.2897**	**1.1638**	**11.231**	**819.30**	**9.875**
Stddev	.3619	.432	24.478	5.5725	.248	5.41	.330
%RSD	40.95	1.8122	570.63	478.82	2.2072	.66040	3.340
#1	-.9172	23.519	-17.492	4.0756	11.507	819.90	9.707
#2	-.5062	23.629	23.956	-5.2614	11.028	813.61	9.663
#3	-1.228	24.316	-19.333	4.6773	11.156	824.38	10.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSAI Acquired: 6/27/2008 14:07:34 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**3.5548**	**-12.798**	**33.768**
Stddev	1.4717	.220	.786
%RSD	41.400	1.7226	2.3272
#1	2.2536	-13.052	32.889
#2	3.2587	-12.654	34.401
#3	5.1519	-12.689	34.015
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1748.7**	**61539.**	**350690.**
Stddev	3.4	32.	352.
%RSD	.19501	.05175	.10027
#1	1751.2	61545.	350840.
#2	1750.0	61505.	350290.
#3	1744.8	61567.	350940.

Sample Name: ICSABI Acquired: 6/27/2008 14:12:36 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**254770.**	**653.99**	**110.25**	**518.26**	**508.76**	**1043.1**	**250460.**
Stddev	392.	2.73	1.07	.68	.67	.6	730.
%RSD	.15373	.41747	.96630	.13048	.13194	.05293	.29158
#1	254990.	657.08	111.35	517.64	509.22	1043.3	249880.
#2	255000.	652.95	110.16	518.15	509.07	1043.5	251280.
#3	254320.	651.92	109.23	518.98	507.99	1042.5	250210.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**573.04**	**523.50**	**560.51**	**98628.**	**78.628**	**269420.**	**530.90**
Stddev	.47	1.22	1.70	223.	2.258	782.	1.49
%RSD	.08207	.23293	.30266	.22632	2.8722	.29028	.28063
#1	573.31	522.09	562.16	98664.	76.027	269560.	531.83
#2	572.49	524.18	560.61	98831.	80.084	270120.	531.69
#3	573.31	524.22	558.77	98389.	79.774	268580.	529.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.119**	**1081.9**	**18.231**	**57.884**	**223.96**	**831.35**	**10.64**
Stddev	.089	2.1	17.487	.491	.14	2.40	.31
%RSD	7.941	.19617	95.922	.84904	.06446	.28895	2.943
#1	-1.182	1079.5	2.9696	58.451	223.81	829.26	10.83
#2	-1.018	1083.5	14.410	57.621	224.10	833.97	10.80
#3	-1.157	1082.8	37.312	57.580	223.98	830.83	10.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSABI Acquired: 6/27/2008 14:12:36 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**111.83**	**491.67**	**1083.3**
Stddev	1.86	1.66	1.1
%RSD	1.6613	.33773	.10015
#1	110.11	489.92	1082.2
#2	111.57	491.86	1083.3
#3	113.80	493.23	1084.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1742.9**	**61454.**	**350310.**
Stddev	.7	144.	40.
%RSD	.04222	.23419	.01138
#1	1743.5	61503.	350340.
#2	1743.0	61292.	350260.
#3	1742.1	61567.	350320.

Sample Name: CCV Acquired: 6/27/2008 14:17:30 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24763.**	**4950.6**	**735.35**	**4998.4**	**761.78**	**763.29**	**25006.**	**4968.0**	**4916.9**
Stddev	45.	4.8	2.94	3.1	1.41	.98	22.	5.4	4.7
%RSD	.18011	.09784	.39926	.06277	.18545	.12851	.08939	.10961	.09606
#1	24814.	4948.3	732.13	5000.1	763.37	762.68	25027.	4962.9	4913.7
#2	24739.	4947.4	736.05	4994.8	761.31	762.78	25009.	4967.2	4914.6
#3	24736.	4956.2	737.88	5000.4	760.66	764.43	24983.	4973.7	4922.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4955.9**	**25037.**	**765.69**	**24954.**	**4993.9**	**-1.962**	**4889.7**	**24643.**	**763.42**
Stddev	14.6	23.	1.24	56.	5.2	.236	2.7	26.	1.90
%RSD	.29485	.09349	.16218	.22299	.10434	12.04	.05478	.10733	.24914
#1	4970.8	25058.	766.81	24976.	4998.9	-2.200	4886.7	24632.	763.91
#2	4955.2	25011.	764.35	24891.	4994.3	-1.957	4890.8	24623.	761.32
#3	4941.6	25041.	765.91	24996.	4988.5	-1.728	4891.8	24673.	765.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**770.72**	**24772.**	**5.222**	**715.92**	**5062.0**	**4965.1**
Stddev	2.49	20.	.512	.88	16.3	4.0
%RSD	.32318	.08094	9.812	.12347	.32114	.08051
#1	772.82	24780.	4.937	714.92	5069.2	4966.0
#2	771.38	24750.	5.814	716.21	5073.4	4960.7
#3	767.97	24787.	4.916	716.62	5043.4	4968.5
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/27/2008 14:17:30 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1965.7**	**64108.**	**376430.**
Stddev	.3	86.	996.
%RSD	.01722	.13374	.26455
#1	1965.3	64025.	375630.
#2	1966.0	64196.	376110.
#3	1965.8	64102.	377540.

Sample Name: CCB Acquired: 6/27/2008 14:22:13 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**18.167**	**-.66831**	**-2.3416**	**.26279**	**.12886**	**.01962**	**7.8142**	**.31292**
Stddev	8.886	.56365	1.0329	.15144	.04442	.05310	5.0407	.14558
%RSD	48.912	84.340	44.111	57.628	34.471	270.62	64.507	46.522
#1	21.969	-.05708	-3.2499	.08803	.10590	.07486	2.2165	.30515
#2	24.518	-1.1676	-1.2181	.35556	.10062	.01503	9.2318	.17139
#3	8.0124	-.78028	-2.5567	.34477	.18006	-.03103	11.994	.46223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.32505**	**-.05523**	**9.6008**	**-.25970**	**-.23325**	**.30979**	**.0196**	**.01448**
Stddev	.33073	.11478	1.4713	1.8920	13.564	.15289	.0668	.47318
%RSD	101.75	207.80	15.325	728.52	5815.2	49.352	341.3	3267.4
#1	.70441	.03828	8.1062	.96590	-15.852	.23095	-.0559	.51857
#2	.09734	-.02066	9.6484	-2.4387	6.5686	.48600	.0436	-.42011
#3	.17339	-.18332	11.048	.69373	8.5837	.21240	.0710	-.05501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**33.539**	**-1.7424**	**-1.0406**	**.63030**	**.4170**	**-.49801**	**.34525**	**.54543**
Stddev	17.704	1.0808	.2968	6.1927	.2221	.50291	.53897	.08737
%RSD	52.784	62.029	28.519	982.50	53.26	100.98	156.11	16.018
#1	26.447	-.74204	-1.1542	7.7107	.3297	-.94261	.85225	.58564
#2	20.481	-2.8888	-1.2639	-2.0433	.2519	.04781	.40431	.44520
#3	53.689	-1.5963	-.70385	-3.7765	.6695	-.59922	-.22082	.60546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 6/27/2008 14:22:13 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2018.0**	**64984.**	**384010.**
Stddev	3.6	135.	1986.
%RSD	.17950	.20783	.51707
#1	2019.3	64853.	384860.
#2	2020.8	64976.	385420.
#3	2013.9	65123.	381740.

Sample Name: PBW Acquired: 6/27/2008 14:27:14 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.7621**	**-.80941**	**-4.7864**	**.53458**	**.09479**	**.06333**	**64.173**	**.32834**
Stddev	13.831	1.2092	1.0173	.04437	.06839	.11192	2.476	.23171
%RSD	240.04	149.39	21.254	8.2991	72.144	176.74	3.8587	70.571
#1	20.315	-1.2105	-3.9050	.48349	.15941	-.05056	66.467	.06151
#2	4.1834	.54935	-5.8996	.56332	.10180	.06735	61.548	.44469
#3	-7.2120	-1.7671	-4.5547	.55694	.02317	.17318	64.504	.47883

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.42572**	**.03812**	**38.239**	**.39051**	**-3.9796**	**.17708**	**.2981**	**.53686**
Stddev	.28858	.20867	.800	1.0833	3.2188	.08223	.1170	.42810
%RSD	67.787	547.47	2.0934	277.42	80.884	46.438	39.27	79.742
#1	-.41960	.21065	38.930	-.86042	-.39466	.23613	.3236	.82331
#2	-.14024	.09751	37.362	1.0135	-6.6219	.08316	.4003	.04473
#3	-.71731	-.19381	38.425	1.0184	-4.9222	.21195	.1704	.74254

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2.8429**	**1.3387**	**-1.8197**	**10.047**	**.4271**	**-.00504**	**.37456**	**2.8536**
Stddev	11.715	.9360	.2228	2.969	.3143	1.0862	.24318	.3204
%RSD	412.08	69.924	12.245	29.551	73.60	21554.	64.925	11.229
#1	9.9528	2.2802	-1.5658	7.3084	.5685	.59945	.58119	3.2013
#2	-10.678	1.3276	-1.9105	9.6299	.6459	.64440	.10658	2.5702
#3	9.2545	.40818	-1.9827	13.202	.0669	-1.2590	.43590	2.7893

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1933.9**	**64524.**	**379560.**
Stddev	1.3	49.	1484.
%RSD	.06474	.07607	.39105
#1	1933.9	64579.	377910.
#2	1935.2	64484.	379990.
#3	1932.7	64508.	380790.

Sample Name: LCSW Acquired: 6/27/2008 14:32:24 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2318.4**	**923.02**	**920.89**	**474.61**	**446.84**	**460.83**	**9105.4**	**472.24**	**471.25**
Stddev	6.5	2.63	1.91	1.02	.77	1.05	22.1	1.37	1.67
%RSD	.28016	.28526	.20700	.21529	.17259	.22689	.24313	.29019	.35417
#1	2325.1	921.39	919.07	475.41	447.73	459.89	9083.3	471.56	470.23
#2	2317.8	921.61	920.73	474.95	446.50	460.64	9127.6	471.35	470.35
#3	2312.2	926.06	922.87	473.46	446.31	461.96	9105.3	473.82	473.18

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**458.16**	**4669.1**	**932.34**	**5373.5**	**463.67**	**.0550**	**466.55**	**9113.0**	**921.74**
Stddev	2.17	8.9	4.20	16.0	.31	.0833	.76	37.3	2.38
%RSD	.47377	.19105	.45063	.29765	.06685	151.6	.16300	.40934	.25871
#1	460.66	4675.1	929.09	5370.8	463.31	.1319	466.29	9154.4	924.35
#2	457.03	4673.5	930.85	5390.7	463.90	.0665	465.95	9082.0	919.67
#3	456.78	4658.9	937.09	5359.0	463.79	-.0336	467.40	9102.6	921.19

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**455.88**	**9126.8**	**2.151**	**971.30**	**460.57**	**944.75**
Stddev	1.40	27.7	.728	2.12	1.73	3.72
%RSD	.30771	.30397	33.85	.21802	.37564	.39417
#1	457.43	9155.8	2.801	970.68	462.40	941.71
#2	455.53	9124.0	1.364	969.55	460.36	943.64
#3	454.69	9100.5	2.288	973.65	458.96	948.91

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1935.8**	**64624.**	**378050.**
Stddev	2.5	54.	1897.
%RSD	.13113	.08422	.50178
#1	1934.6	64578.	376000.
#2	1938.7	64610.	378410.
#3	1934.0	64684.	379740.

Sample Name: MH2695 Acquired: 6/27/2008 14:37:10 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**518.50**	**100.50**	**4.6533**	**687.64**	**.10328**	**1.7722**	**57201.**	**2.0914**
Stddev	22.68	1.10	1.2502	1.53	.05563	.0290	82.	.0617
%RSD	4.3732	1.0910	26.868	.22314	53.861	1.6392	.14384	2.9504
#1	499.27	99.955	4.4477	686.94	.10179	1.8051	57219.	2.0263
#2	543.51	99.788	3.5186	689.40	.15964	1.7616	57112.	2.0989
#3	512.74	101.77	5.9936	686.59	.04841	1.7500	57273.	2.1490

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.46553**	**14.785**	**795.57**	**136.86**	**5939.0**	**403.22**	**4.090**	**4.1854**
Stddev	.12137	.099	.88	1.43	29.2	.57	.223	.6196
%RSD	26.072	.67097	.11077	1.0431	.49129	.14043	5.450	14.803
#1	.34994	14.886	795.90	138.37	5970.6	403.86	3.834	3.4714
#2	.45471	14.782	796.23	135.53	5933.3	402.78	4.196	4.5047
#3	.59196	14.688	794.57	136.69	5913.0	403.01	4.240	4.5802

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1556.0**	**3.9662**	**1.8572**	**10461.**	**16.92**	**-.15256**	**1.1747**	**490.07**
Stddev	8.1	1.3549	.0717	37.	.12	2.0691	.3560	.65
%RSD	.51824	34.162	3.8608	.35120	.7220	1356.3	30.306	.13317
#1	1562.7	3.3697	1.8097	10482.	16.78	1.9007	.76398	490.56
#2	1547.0	3.0118	1.8221	10482.	16.95	-2.2371	1.3650	490.33
#3	1558.1	5.5170	1.9397	10418.	17.02	-.12133	1.3950	489.33

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1900.7**	**64332.**	**375620.**
Stddev	3.3	15.	507.
%RSD	.17493	.02268	.13494
#1	1897.7	64348.	375060.
#2	1904.3	64319.	376040.
#3	1900.1	64329.	375780.

Sample Name: MH2695S Acquired: 6/27/2008 14:42:04 Type: RQC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2424.4**	**187.53**	**41.295**	**2536.0**	**44.416**	**47.087**	**57103.**
Stddev	9.4	.64	1.561	12.2	.102	.076	213.
%RSD	.38778	.34313	3.7790	.48105	.23014	.16111	.37258
#1	2434.9	187.08	42.904	2549.3	44.533	47.014	57322.
#2	2416.8	187.25	39.787	2533.5	44.345	47.165	56897.
#3	2421.5	188.27	41.195	2525.3	44.370	47.080	57090.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							
Recovery	1905.9	87.030	36.642	1848.4	44.313	45.314	None
% Recovery	105.88%	96.700%	101.68%	102.69%	98.375%	100.60%	

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**190.28**	**459.70**	**240.29**	**1860.3**	F **160.45**	**5990.5**	**855.77**
Stddev	.63	1.44	.09	5.1	1.14	9.8	2.89
%RSD	.32925	.31290	.03721	.27368	.70803	.16428	.33806
#1	190.17	458.62	240.22	1866.2	159.59	5979.1	859.10
#2	189.72	459.14	240.39	1856.7	160.02	5996.3	853.87
#3	190.96	461.33	240.26	1858.1	161.74	5996.1	854.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
Value					18.018		
Range					25.000%		
Recovery	188.19	459.23	225.50	1064.8	23.589	None	452.56
% Recovery	104.45%	101.95%	100.22%	118.19%	130.92%		100.47%

Sample Name: MH2695S Acquired: 6/27/2008 14:42:04 Type: RQC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**3.868**	**456.21**	**1585.0**	**48.380**	**45.918**	**10480.**	**20.47**
Stddev	.064	1.41	10.8	1.431	.423	31.	.19
%RSD	1.643	.30856	.67969	2.9576	.92099	.29822	.9439
#1	3.899	456.11	1574.7	47.966	45.777	10498.	20.69
#2	3.795	454.85	1584.1	49.972	46.394	10499.	20.31
#3	3.911	457.66	1596.2	47.202	45.584	10444.	20.41
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value							
Range							
Recovery	None	452.02	None	44.414	44.061	None	None
% Recovery		100.35%		98.599%	97.816%		

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**45.815**	**443.57**	**943.21**
Stddev	.788	3.24	1.99
%RSD	1.7197	.73097	.21073
#1	46.648	446.93	941.74
#2	45.715	443.30	942.41
#3	45.082	440.46	945.47
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			
Recovery	45.967	442.39	453.14
% Recovery	102.05%	98.211%	100.60%

Sample Name: MH2695S Acquired: 6/27/2008 14:42:04 Type: RQC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1898.2**	**64217.**	**377390.**
Stddev	3.4	192.	890.
%RSD	.18148	.29901	.23580
#1	1900.2	63996.	376360.
#2	1900.3	64343.	377960.
#3	1894.3	64312.	377840.

Sample Name: MH2695D Acquired: 6/27/2008 14:46:51 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**728.39**	**98.928**	**3.1917**	**695.49**	**.09171**	**1.8098**	**56587.**	**2.3995**
Stddev	14.53	.838	1.0595	.94	.05646	.0340	163.	.1322
%RSD	1.9949	.84706	33.195	.13572	61.557	1.8767	.28870	5.5103
#1	736.34	98.300	4.3956	694.48	.15686	1.7886	56690.	2.3800
#2	737.21	99.880	2.4013	695.67	.06111	1.8489	56399.	2.5404
#3	711.62	98.605	2.7781	696.34	.05717	1.7917	56673.	2.2782

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.15860**	**16.170**	**944.63**	**143.13**	**5979.3**	**401.54**	**4.147**	**4.1613**
Stddev	.33981	.157	4.25	2.53	19.3	1.24	.141	.4919
%RSD	214.26	.96796	.44977	1.7651	.32227	.30853	3.412	11.822
#1	.00021	15.994	941.52	145.03	5999.3	402.32	4.039	4.5374
#2	-.07310	16.223	942.90	140.26	5960.9	402.18	4.094	3.6046
#3	.54868	16.293	949.47	144.10	5977.5	400.11	4.307	4.3419

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1615.8**	**3.0068**	**2.2839**	**10476.**	**21.17**	**-.58695**	**1.4159**	**497.03**
Stddev	22.1	1.4982	.1956	26.	.54	.86275	.6943	.27
%RSD	1.3679	49.827	8.5660	.24672	2.527	146.99	49.037	.05521
#1	1591.7	3.4842	2.5097	10463.	20.56	-1.3696	1.2543	496.72
#2	1635.1	4.2081	2.1666	10505.	21.41	.33816	.81662	497.19
#3	1620.6	1.3281	2.1753	10459.	21.55	-.72940	2.1768	497.19

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1891.5**	**64304.**	**374150.**
Stddev	4.2	95.	719.
%RSD	.22037	.14811	.19225
#1	1891.3	64209.	373650.
#2	1895.8	64304.	374970.
#3	1887.4	64399.	373820.

Sample Name: MH2695L Acquired: 6/27/2008 14:51:44 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**122.08**	**19.018**	**-1.2212**	**138.09**	**.07242**	**.30994**	**11538.**	**.38313**
Stddev	18.17	1.757	.1416	.24	.04670	.07003	55.	.03378
%RSD	14.881	9.2409	11.591	.17369	64.485	22.594	.47890	8.8178
#1	118.74	19.637	-1.2988	138.06	.10876	.37347	11590.	.35632
#2	105.81	17.035	-1.3070	138.35	.08876	.32150	11544.	.42107
#3	141.68	20.383	-1.0579	137.87	.01975	.23485	11480.	.37200

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.07251**	**2.7653**	**162.25**	**28.219**	**1201.1**	**81.489**	**.7728**	**.53229**
Stddev	.08867	.1555	.88	1.298	20.1	.230	.0179	.30642
%RSD	122.28	5.6215	.54207	4.5987	1.6715	.28276	2.320	57.565
#1	-.01012	2.8497	162.76	28.533	1215.8	81.700	.7527	.79983
#2	-.17401	2.5859	161.24	26.793	1209.2	81.523	.7870	.59904
#3	-.03340	2.8604	162.76	29.331	1178.2	81.243	.7787	.19800

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**351.77**	**3.3944**	**-.21944**	**2085.5**	**3.602**	**-.25071**	**.04462**	**96.923**
Stddev	9.79	5.3359	.39320	9.3	.234	.38100	.25441	.242
%RSD	2.7842	157.20	179.18	.44445	6.502	151.97	570.18	.24955
#1	355.58	9.5499	-.06943	2084.9	3.866	-.68422	.14553	97.179
#2	340.65	.54797	-.66557	2095.1	3.419	.03100	.23309	96.699
#3	359.09	.08531	.07667	2076.6	3.521	-.09893	-.24476	96.891

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1994.4**	**64770.**	**381670.**
Stddev	4.0	166.	1662.
%RSD	.20082	.25594	.43532
#1	1989.8	64626.	380350.
#2	1997.1	64732.	383540.
#3	1996.4	64951.	381130.

Sample Name: MH2663 Acquired: 6/27/2008 14:56:41 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**702.75**	**449.82**	**24.944**	**337.80**	**.12502**	**5.4864**	**20147.**	**3.8825**	**.47964**
Stddev	23.23	3.36	.420	1.82	.06075	.0654	24.	.1114	.13493
%RSD	3.3049	.74636	1.6844	.53875	48.597	1.1911	.11804	2.8684	28.132
#1	711.08	447.56	25.357	339.07	.10385	5.4445	20120.	3.7633	.55042
#2	720.66	448.22	24.517	338.61	.07767	5.5617	20161.	3.9002	.32405
#3	676.50	453.67	24.957	335.71	.19352	5.4530	20160.	3.9839	.56446

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**181.15**	**1094.1**	**906.65**	**3427.6**	**414.90**	**8.006**	**1.9984**	**1661.8**	**9.5504**
Stddev	.91	.6	8.63	27.1	.49	.197	.1297	3.7	1.5272
%RSD	.50012	.05068	.95168	.79203	.11923	2.458	6.4901	.22463	15.990
#1	181.50	1093.6	900.57	3418.9	414.33	7.788	1.9309	1665.5	10.393
#2	181.82	1094.7	902.86	3458.1	415.11	8.061	1.9164	1662.0	10.471
#3	180.12	1093.9	916.53	3405.9	415.25	8.169	2.1479	1658.0	7.7876

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**13.960**	**4671.4**	**13.11**	**.90517**	**1.5153**	**957.95**
Stddev	.703	10.7	.27	.12672	.4609	5.14
%RSD	5.0349	.23004	2.075	14.000	30.419	.53633
#1	13.906	4680.0	13.20	.77930	.99057	953.72
#2	14.688	4674.8	13.32	1.0327	1.7005	956.46
#3	13.286	4659.3	12.80	.90347	1.8548	963.67

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1911.2**	**64566.**	**380630.**
Stddev	7.6	102.	1898.
%RSD	.39739	.15852	.49868
#1	1916.2	64489.	379890.
#2	1914.9	64526.	379210.
#3	1902.4	64682.	382780.

Sample Name: MH2665 Acquired: 6/27/2008 15:01:34 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**192.18**	**229.40**	**23.651**	**165.49**	**.15789**	**4.5886**	**6855.5**	**2.2088**
Stddev	9.23	1.40	1.902	.12	.05219	.0667	9.2	.0425
%RSD	4.8052	.61097	8.0424	.07166	33.056	1.4541	.13439	1.9259
#1	181.52	228.28	24.969	165.63	.21759	4.6610	6856.8	2.1876
#2	197.41	228.96	21.471	165.42	.13512	4.5752	6845.7	2.1811
#3	197.61	230.98	24.514	165.43	.12095	4.5296	6864.0	2.2578

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.63180**	**94.957**	**634.05**	**700.97**	**918.30**	**128.84**	**1.312**	**.85449**
Stddev	.15040	.274	1.67	5.09	4.16	.53	.074	.69690
%RSD	23.806	.28818	.26367	.72663	.45322	.41120	5.645	81.557
#1	-.60910	94.942	632.61	697.81	915.75	128.28	1.386	.06845
#2	-.49404	95.238	635.88	698.26	916.04	128.90	1.238	1.0983
#3	-.79227	94.691	633.65	706.85	923.10	129.34	1.313	1.3967

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**817.48**	**.99375**	**5.1985**	**2631.8**	**4.688**	**-.12902**	**.48872**	**737.35**
Stddev	6.85	.87202	.1477	7.5	.780	1.3129	.35992	1.84
%RSD	.83771	87.751	2.8405	.28506	16.64	1017.6	73.646	.25019
#1	810.04	1.1067	5.2263	2636.9	4.336	.73226	.74436	736.80
#2	818.87	.07077	5.0389	2635.4	5.582	-1.6401	.07712	735.85
#3	823.53	1.8038	5.3302	2623.2	4.146	.52077	.64467	739.41

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1917.4**	**64936.**	**382540.**
Stddev	3.2	125.	786.
%RSD	.16675	.19285	.20546
#1	1917.8	64795.	382110.
#2	1920.4	65033.	383440.
#3	1914.0	64981.	382060.

Sample Name: MH2667 Acquired: 6/27/2008 15:06:28 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**159.45**	**118.88**	**35.451**	**216.32**	**.05314**	**4.7438**	**10905.**	**1.6505**
Stddev	15.76	1.08	1.164	.23	.04922	.0680	11.	.1968
%RSD	9.8810	.90801	3.2825	.10763	92.614	1.4332	.10278	11.922
#1	171.02	117.69	34.664	216.32	-.00165	4.6659	10898.	1.4494
#2	165.83	119.14	34.902	216.56	.06747	4.7916	10900.	1.8427
#3	141.51	119.80	36.788	216.10	.09360	4.7738	10918.	1.6595

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.30575**	**73.070**	**919.76**	**718.54**	**1396.3**	**122.60**	**2.109**	**1.3064**
Stddev	.32664	.107	1.17	4.14	8.7	.21	.225	.2298
%RSD	106.83	.14679	.12699	.57646	.62052	.16808	10.67	17.588
#1	.05938	73.058	919.19	715.00	1404.1	122.43	2.367	1.0434
#2	-.40646	73.183	918.98	723.10	1397.7	122.83	1.955	1.4075
#3	-.57018	72.969	921.10	717.52	1387.0	122.56	2.006	1.4684

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**985.34**	**3.3922**	**4.9719**	**4146.7**	**4.428**	**-.19725**	**1.0450**	**651.41**
Stddev	20.24	.6959	.3560	6.9	.295	.68010	.4492	.33
%RSD	2.0546	20.514	7.1598	.16532	6.673	344.79	42.989	.05104
#1	1007.6	3.3330	4.6560	4143.6	4.384	-.23093	1.5595	651.09
#2	980.54	4.1158	5.3576	4154.6	4.742	.49906	.84479	651.37
#3	967.92	2.7279	4.9022	4142.0	4.157	-.85989	.73062	651.76

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1912.7**	**64409.**	**378300.**
Stddev	3.8	169.	915.
%RSD	.20028	.26273	.24176
#1	1911.9	64223.	378740.
#2	1909.3	64554.	377250.
#3	1916.9	64450.	378910.

Sample Name: MH2669 Acquired: 6/27/2008 15:11:21 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**504.12**	**47.228**	**2.9865**	**593.04**	**.06730**	**2.1596**	**15537.**	**1.6733**
Stddev	21.25	1.759	.6241	1.64	.04753	.0412	24.	.1699
%RSD	4.2163	3.7250	20.897	.27618	70.623	1.9069	.15442	10.152
#1	522.58	49.225	2.8158	593.91	.11326	2.1148	15515.	1.7699
#2	480.89	46.551	3.6782	594.06	.01833	2.1958	15563.	1.4772
#3	508.90	45.908	2.4656	591.15	.07032	2.1684	15534.	1.7729

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.11554**	**27.193**	**641.12**	**136.77**	**2748.2**	**196.64**	**1.264**	**3.6999**
Stddev	.05373	.045	1.48	2.21	22.3	.51	.198	.1334
%RSD	46.503	.16451	.23017	1.6188	.81110	.25862	15.62	3.6049
#1	-.09682	27.167	641.33	134.26	2748.3	196.79	1.238	3.7549
#2	-.17612	27.167	639.55	137.58	2770.4	197.05	1.082	3.5479
#3	-.07367	27.244	642.48	138.46	2725.9	196.07	1.474	3.7970

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**801.10**	**.93493**	**.76278**	**8305.6**	**13.38**	**.39956**	**.99273**	**843.06**
Stddev	.36	.97011	.33005	15.2	.53	.68767	.08621	2.28
%RSD	.04444	103.76	43.269	.18344	3.937	172.11	8.6840	.27034
#1	800.89	1.9207	1.1395	8317.7	12.80	-.06241	.90251	845.63
#2	800.91	-.01876	.52444	8310.8	13.53	1.1898	1.0014	841.28
#3	801.52	.90290	.62441	8288.5	13.82	.07123	1.0743	842.28

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1900.4**	**64543.**	**378170.**
Stddev	3.2	63.	212.
%RSD	.16980	.09807	.05594
#1	1902.3	64521.	377940.
#2	1902.2	64493.	378230.
#3	1896.6	64614.	378350.

Sample Name: CCV2 Acquired: 6/27/2008 15:16:16 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24549.**	**4957.5**	**732.57**	**4982.8**	**754.44**	**761.46**	**24436.**	**4975.4**	**4915.6**
Stddev	6.	5.5	2.06	9.3	1.25	1.26	50.	10.9	10.9
%RSD	.02339	.11113	.28124	.18600	.16534	.16584	.20612	.21875	.22255
#1	24545.	4957.1	731.51	4972.9	754.59	760.03	24455.	4968.5	4907.2
#2	24555.	4952.2	731.26	4984.1	753.13	762.43	24378.	4969.9	4911.5
#3	24547.	4963.2	734.94	4991.2	755.61	761.91	24473.	4988.0	4927.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4971.9**	**24616.**	**761.94**	**24777.**	**4929.2**	**-1.997**	**4879.5**	**24574.**	**763.80**
Stddev	7.8	38.	2.63	18.	4.8	.313	2.3	12.	5.31
%RSD	.15654	.15511	.34485	.07251	.09761	15.65	.04783	.04896	.69558
#1	4972.0	24604.	762.75	24788.	4932.3	-1.784	4876.8	24562.	758.56
#2	4979.6	24586.	759.00	24756.	4923.6	-2.356	4880.4	24575.	763.66
#3	4964.1	24659.	764.06	24785.	4931.6	-1.851	4881.2	24586.	769.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**773.81**	**24810.**	**5.647**	**717.48**	**5061.4**	**4944.8**
Stddev	1.98	18.	.240	3.15	18.4	12.3
%RSD	.25530	.07167	4.251	.43940	.36372	.24952
#1	774.45	24810.	5.923	715.21	5065.2	4931.0
#2	775.38	24792.	5.486	716.15	5077.7	4948.7
#3	771.59	24827.	5.531	721.08	5041.4	4954.7
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV2 Acquired: 6/27/2008 15:16:16 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1953.3**	**64712.**	**374120.**
Stddev	2.6	89.	665.
%RSD	.13107	.13756	.17782
#1	1952.9	64613.	374150.
#2	1956.1	64785.	373440.
#3	1951.0	64739.	374770.

Sample Name: CCB2 Acquired: 6/27/2008 15:21:00 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-5.1955**	**1.3188**	**-1.3516**	**.35675**	**.12108**	**.11058**	**2.1057**	**.06984**
Stddev	5.7994	1.1747	2.8878	.04538	.00131	.02002	.4579	.18243
%RSD	111.62	89.073	213.65	12.721	1.0783	18.107	21.746	261.21
#1	-11.655	1.5269	-4.6584	.31596	.12054	.10986	2.2507	.08877
#2	-3.4950	.05398	-.07010	.40564	.12013	.09092	2.4736	-.12132
#3	-.4364	2.3756	.67364	.34865	.12257	.13095	1.5929	.24206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.21842**	**-.28920**	**3.0337**	**1.1530**	**-5.8594**	**.25262**	**.0612**	**-.08568**
Stddev	.14238	.07416	.6397	1.2490	7.9519	.17591	.0756	.24871
%RSD	65.185	25.644	21.085	108.33	135.71	69.634	123.5	290.29
#1	-.08700	-.27566	3.7029	2.3876	-3.6424	.42481	-.0151	-.25374
#2	-.36967	-.22274	2.4284	-.10993	.74886	.25983	.0625	-.20331
#3	-.19859	-.36920	2.9698	1.1812	-14.685	.07321	.1361	.20003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**39.293**	**.77552**	**-1.1188**	**-2.5778**	**.4138**	**-.20652**	**.13809**	**.34152**
Stddev	6.022	.88208	.2351	7.9469	.5643	1.0392	1.0065	.11474
%RSD	15.326	113.74	21.016	308.28	136.4	503.18	728.85	33.597
#1	37.830	1.7927	-1.3802	5.5860	.6329	.17812	.62096	.31590
#2	34.137	.22072	-.92454	-10.288	.8357	-1.3832	-1.0188	.24175
#3	45.912	.31317	-1.0517	-3.0310	-.2272	.58550	.81212	.46690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB2 Acquired: 6/27/2008 15:21:00 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2011.5**	**64934.**	**381930.**
Stddev	4.5	61.	1310.
%RSD	.22256	.09456	.34306
#1	2009.1	64863.	381100.
#2	2016.6	64967.	381260.
#3	2008.6	64971.	383440.

Sample Name: MH2671 Acquired: 6/27/2008 15:25:58 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**119.74**	**26.578**	**3.2755**	**203.63**	**.06650**	**.80001**	**16587.**	**.85976**
Stddev	7.51	1.353	.8299	.42	.03318	.04762	59.	.05947
%RSD	6.2748	5.0916	25.337	.20405	49.886	5.9520	.35516	6.9172
#1	112.48	25.829	3.9069	203.71	.09356	.85070	16624.	.83142
#2	119.26	25.764	3.5841	204.00	.02949	.79310	16519.	.81976
#3	127.49	28.140	2.3355	203.18	.07645	.75622	16619.	.92810

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.33916**	**9.2779**	**241.54**	**78.475**	**2438.4**	**53.959**	**5.703**	**.82446**
Stddev	.07720	.0695	2.29	1.248	19.3	.045	.255	.14179
%RSD	22.762	.74882	.94655	1.5900	.79054	.08361	4.476	17.198
#1	-.39939	9.2313	242.47	78.823	2458.8	54.011	5.838	.68288
#2	-.36595	9.3578	238.93	77.091	2420.6	53.928	5.862	.96646
#3	-.25213	9.2447	243.21	79.512	2435.7	53.939	5.408	.82405

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**512.35**	**2.6375**	**1.1291**	**5353.2**	**4.207**	**-.26835**	**.22728**	**192.35**
Stddev	21.26	2.2418	.1439	2.4	.359	.60811	.38242	.30
%RSD	4.1488	84.998	12.748	.04431	8.526	226.61	168.26	.15655
#1	487.88	5.1908	1.2464	5354.1	4.305	-.62188	.56819	192.44
#2	522.88	1.7305	1.1725	5355.0	4.507	.43383	-.18624	192.60
#3	526.28	.99129	.96848	5350.5	3.810	-.61699	.29990	192.02

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1902.9**	**64420.**	**379310.**
Stddev	1.4	177.	1285.
%RSD	.07489	.27401	.33878
#1	1901.4	64220.	378280.
#2	1903.1	64551.	378890.
#3	1904.2	64490.	380750.

Sample Name: MH26D2 Acquired: 6/27/2008 15:30:58 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**443.37**	**33.522**	**15.430**	**307.41**	**.06783**	**1.1575**	**12327.**	**1.7750**
Stddev	13.52	1.863	1.836	.70	.07656	.0393	25.	.0519
%RSD	3.0486	5.5574	11.897	.22808	112.87	3.3962	.19937	2.9247
#1	432.77	32.908	14.971	308.06	.14511	1.1601	12319.	1.8271
#2	438.75	35.615	13.867	307.50	.06638	1.1169	12307.	1.7747
#3	458.59	32.044	17.451	306.67	-.00799	1.1954	12354.	1.7233

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.29768**	**25.522**	**707.18**	**204.37**	**2054.6**	**76.127**	**3.216**	**1.2724**
Stddev	.27015	.332	2.51	1.59	12.7	.130	.244	.4219
%RSD	90.753	1.3021	.35516	.77861	.61944	.17121	7.602	33.159
#1	-.25144	25.905	704.30	205.86	2043.6	76.055	3.496	1.2692
#2	-.58797	25.342	708.94	204.56	2068.5	76.278	3.107	1.6960
#3	-.05363	25.318	708.30	202.70	2051.6	76.049	3.044	.85214

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**579.74**	**2.1324**	**2.1577**	**5815.2**	**13.22**	**-.60254**	**1.2224**	**278.28**
Stddev	22.19	1.1674	.1758	14.9	.35	1.9562	.0977	.07
%RSD	3.8277	54.744	8.1459	.25658	2.637	324.66	7.9895	.02584
#1	583.55	3.4716	2.0569	5832.0	13.38	.04572	1.1832	278.24
#2	555.89	1.3292	2.0556	5810.2	13.46	-2.8006	1.3336	278.24
#3	599.78	1.5966	2.3607	5803.5	12.82	.94723	1.1504	278.36

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1920.0**	**64706.**	**378500.**
Stddev	8.0	48.	476.
%RSD	.41635	.07425	.12583
#1	1910.8	64656.	378140.
#2	1923.7	64752.	379040.
#3	1925.4	64711.	378320.

Sample Name: MH25A5 Acquired: 6/27/2008 15:35:55 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**418.71**	**103.71**	**20.372**	**359.91**	**.16704**	**1.0613**	**18642.**	**1.3922**
Stddev	4.01	.66	1.285	1.14	.10211	.0827	50.	.1966
%RSD	.95866	.63945	6.3068	.31770	61.126	7.7873	.26987	14.118
#1	415.65	103.77	21.853	359.98	.18561	1.0649	18605.	1.5889
#2	417.24	103.02	19.712	358.74	.05693	1.1421	18621.	1.3920
#3	423.26	104.34	19.552	361.02	.25860	.97689	18699.	1.1958

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.32668**	**42.033**	**839.15**	**199.46**	**3228.9**	**709.54**	**2.414**	**2.3438**
Stddev	.14434	.114	2.29	3.38	4.8	.86	.077	.3879
%RSD	44.182	.27107	.27246	1.6962	.14941	.12085	3.211	16.549
#1	.29841	42.028	838.30	202.97	3224.9	709.84	2.476	2.2057
#2	.19857	41.921	837.41	196.22	3227.5	708.57	2.327	2.7818
#3	.48306	42.149	841.74	199.19	3234.3	710.21	2.438	2.0438

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**724.44**	**3.6005**	**3.6442**	**7688.9**	**11.84**	**-1.6166**	**1.3278**	**385.21**
Stddev	25.81	.5168	.3352	15.6	.11	.4939	.2766	2.08
%RSD	3.5629	14.353	9.1974	.20223	.9121	30.552	20.834	.53889
#1	753.96	3.9248	3.2576	7696.2	11.72	-1.0564	1.5875	385.94
#2	713.24	3.0046	3.8533	7671.0	11.93	-1.8042	1.3589	382.87
#3	706.12	3.8721	3.8216	7699.4	11.89	-1.9892	1.0369	386.82

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1915.7**	**64565.**	**379750.**
Stddev	3.7	61.	797.
%RSD	.19134	.09472	.21000
#1	1913.0	64584.	380650.
#2	1919.9	64614.	379140.
#3	1914.3	64496.	379450.

Sample Name: MH2674 Acquired: 6/27/2008 15:40:50 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**813.85**	**48.388**	**4.8792**	**334.50**	**.10995**	**1.4001**	**21941.**	**1.5940**
Stddev	10.88	1.052	.9655	.72	.03257	.0250	31.	.0538
%RSD	1.3364	2.1743	19.789	.21538	29.627	1.7840	.14302	3.3731
#1	814.98	47.528	3.8421	333.73	.07638	1.3790	21971.	1.5332
#2	802.45	48.074	5.0432	335.16	.14143	1.3935	21908.	1.6351
#3	824.11	49.561	5.7522	334.61	.11203	1.4276	21942.	1.6138

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.41279**	**20.701**	**639.49**	**57.915**	**3757.2**	**27.845**	**2.328**	**2.2648**
Stddev	.19103	.173	1.45	1.330	31.7	.447	.148	.0431
%RSD	46.278	.83374	.22620	2.2958	.84332	1.6035	6.344	1.9021
#1	-.32738	20.857	638.67	57.983	3793.0	28.096	2.359	2.3127
#2	-.27937	20.516	641.16	56.552	3732.6	27.330	2.457	2.2527
#3	-.63162	20.729	638.63	59.209	3746.2	28.111	2.167	2.2292

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**914.15**	**3.7700**	**.67107**	**6475.0**	**22.69**	**-.07957**	**1.5590**	**351.61**
Stddev	45.10	1.2325	.14461	5.8	.27	1.4599	.0828	1.50
%RSD	4.9337	32.693	21.549	.09008	1.202	1834.7	5.3129	.42607
#1	912.88	2.6388	.54056	6477.5	22.83	1.1893	1.6059	350.88
#2	869.70	3.5876	.64613	6479.1	22.87	.24703	1.4634	350.63
#3	959.88	5.0836	.82653	6468.3	22.38	-1.6751	1.6077	353.34

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1908.9**	**64547.**	**380380.**
Stddev	.8	108.	437.
%RSD	.04018	.16766	.11498
#1	1909.2	64422.	380730.
#2	1908.1	64607.	379890.
#3	1909.5	64612.	380510.

Sample Name: MH2676 Acquired: 6/27/2008 15:45:44 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**288.22**	**35.935**	**7.8550**	**172.72**	**.06137**	**.97978**	**13249.**	**1.0927**
Stddev	10.79	1.214	.9288	.74	.04559	.01835	47.	.1910
%RSD	3.7440	3.3774	11.824	.42649	74.291	1.8727	.35363	17.477
#1	298.43	34.544	7.0146	172.28	.02776	1.0006	13197.	.87826
#2	276.93	36.775	8.8522	172.30	.11326	.96582	13262.	1.2445
#3	289.31	36.487	7.6983	173.57	.04308	.97297	13288.	1.1552

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.02794**	**15.247**	**495.51**	**162.57**	**2196.7**	**56.393**	**2.316**	**1.5963**
Stddev	.12353	.252	4.24	.54	13.4	.063	.215	.6048
%RSD	442.08	1.6518	.85653	.33116	.60813	.11105	9.301	37.890
#1	-.09389	15.056	493.58	162.93	2185.4	56.429	2.504	2.2467
#2	.02462	15.532	492.56	161.95	2193.2	56.430	2.081	1.0508
#3	.15310	15.153	500.37	162.82	2211.5	56.321	2.364	1.4914

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**924.06**	**2.3648**	**.57951**	**4543.6**	**9.599**	**-1.0516**	**.56419**	**217.16**
Stddev	21.75	.5521	.09321	4.5	.727	.6208	.51741	1.31
%RSD	2.3537	23.347	16.084	.09988	7.578	59.031	91.709	.60289
#1	947.68	1.7707	.68708	4547.6	9.283	-1.4469	.58948	215.97
#2	919.65	2.4615	.52871	4544.6	10.43	-1.3717	1.0685	216.94
#3	904.86	2.8622	.52274	4538.7	9.083	-.33611	.03460	218.56

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1907.8**	**64735.**	**380090.**
Stddev	3.9	163.	1415.
%RSD	.20195	.25174	.37220
#1	1912.0	64920.	378460.
#2	1907.1	64610.	381000.
#3	1904.4	64677.	380810.

Sample Name: MH2678 Acquired: 6/27/2008 15:50:41 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**206.62**	**11.104**	**-1.7020**	**389.47**	**.07188**	**.56560**	**20114.**	**4.6435**
Stddev	27.15	.866	1.1694	.33	.05227	.03374	27.	.1151
%RSD	13.140	7.8033	68.709	.08375	72.714	5.9652	.13597	2.4780
#1	175.32	10.677	-2.6831	389.82	.06614	.54570	20119.	4.6353
#2	223.76	12.101	-.40793	389.41	.02272	.54655	20085.	4.7624
#3	220.78	10.533	-2.0151	389.18	.12679	.60456	20139.	4.5327

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.26422**	**5.5869**	**227.05**	**15.032**	**2628.3**	**22.889**	**7.184**	**1.6401**
Stddev	.20564	.0530	.29	2.048	6.6	.077	.114	.5233
%RSD	77.832	.94849	.12763	13.625	.25026	.33826	1.580	31.907
#1	-.41163	5.6387	227.09	14.804	2631.4	22.885	7.180	1.0697
#2	-.02929	5.5893	227.31	17.184	2632.8	22.813	7.072	1.7525
#3	-.35173	5.5328	226.74	13.107	2620.8	22.968	7.299	2.0980

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**914.67**	**2.5171**	**-.71628**	**7687.3**	**7.680**	**-.37569**	**.58686**	**87.315**
Stddev	24.38	2.9934	.28641	7.9	.674	.65828	.24688	.198
%RSD	2.6649	118.92	39.985	.10285	8.771	175.22	42.068	.22650
#1	931.21	2.9988	-.62966	7694.2	7.335	-.78451	.83332	87.327
#2	886.68	-.68795	-1.0360	7689.1	7.249	-.72623	.33956	87.111
#3	926.11	5.2405	-.48318	7678.7	8.456	.38368	.58770	87.506

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1905.2**	**64399.**	**376970.**
Stddev	3.4	59.	1353.
%RSD	.17975	.09153	.35886
#1	1907.9	64337.	376170.
#2	1901.4	64454.	378540.
#3	1906.4	64406.	376210.

Sample Name: MH2680 Acquired: 6/27/2008 15:55:39 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**624.05**	**71.838**	**4.8129**	**461.11**	**.10766**	**.90409**	**13027.**	**2.2342**
Stddev	13.77	1.934	1.0684	.86	.01740	.07682	22.	.1502
%RSD	2.2071	2.6920	22.198	.18731	16.162	8.4968	.17193	6.7214
#1	620.94	72.189	3.5970	461.71	.08993	.83907	13022.	2.0923
#2	612.10	69.753	5.6016	461.51	.12471	.98885	13051.	2.3914
#3	639.11	73.573	5.2401	460.12	.10835	.88435	13007.	2.2190

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.34933**	**16.973**	**677.10**	**128.91**	**2252.7**	**1187.7**	**3.977**	**1.9518**
Stddev	.06221	.226	.10	1.54	8.3	3.1	.070	.4841
%RSD	17.809	1.3308	.01438	1.1908	.36867	.25777	1.750	24.805
#1	.27820	17.015	677.18	130.37	2257.8	1191.2	3.899	1.9003
#2	.37625	17.175	677.13	127.31	2243.2	1186.3	4.032	1.4955
#3	.39355	16.729	676.99	129.05	2257.3	1185.6	4.000	2.4597

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1791.3**	**3.6722**	**-.06855**	**5651.4**	**17.99**	**-.43636**	**1.3111**	**180.22**
Stddev	6.0	2.5260	.20333	21.2	.22	1.1843	.4091	.26
%RSD	.33437	68.787	296.60	.37600	1.195	271.40	31.206	.14345
#1	1792.8	3.8868	.02224	5674.9	18.06	-1.7365	1.7580	180.41
#2	1796.4	6.0842	-.30146	5645.5	17.75	-.15322	.95492	180.33
#3	1784.7	1.0458	.07356	5633.6	18.17	.58068	1.2204	179.93

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1911.6**	**64561.**	**378900.**
Stddev	3.6	160.	1673.
%RSD	.18612	.24730	.44147
#1	1908.6	64422.	376970.
#2	1910.7	64526.	379750.
#3	1915.5	64735.	379970.

Sample Name: CRIF Acquired: 6/27/2008 16:00:35 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**214.26**	**58.945**	**8.1593**	**203.32**	**5.0581**	**4.9260**	**4902.6**	**9.8544**	**49.563**
Stddev	10.19	.567	.3914	.26	.1041	.0599	14.4	.1693	.155
%RSD	4.7550	.96139	4.7975	.12777	2.0582	1.2162	.29329	1.7182	.31318
#1	206.02	58.331	8.5601	203.23	5.0262	4.8933	4919.2	9.9652	49.552
#2	211.12	59.448	7.7780	203.61	5.1745	4.9951	4894.8	9.9385	49.413
#3	225.65	59.058	8.1397	203.11	4.9737	4.8895	4893.9	9.6595	49.723
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24.741**	**105.06**	**8.7068**	**4893.4**	**15.261**	**-.0127**	**39.776**	**4882.7**	**34.807**
Stddev	.605	.67	1.9599	12.8	.041	.1393	.243	10.3	1.139
%RSD	2.4467	.63519	22.510	.26256	.26716	1101.	.61115	.21132	3.2716
#1	24.484	104.60	10.595	4906.0	15.289	-.1339	40.007	4873.0	34.720
#2	25.432	105.83	8.8425	4880.3	15.279	-.0437	39.523	4893.6	35.987
#3	24.307	104.76	6.6826	4894.0	15.214	.1396	39.799	4881.5	33.714
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9.2673**	**4899.5**	**.7706**	**24.256**	**48.840**	**60.035**
Stddev	.1698	6.6	.2815	.214	.148	.317
%RSD	1.8326	.13446	36.53	.88299	.30362	.52866
#1	9.1969	4907.0	.6370	24.323	48.669	60.398
#2	9.1439	4896.3	.5808	24.428	48.922	59.807
#3	9.4610	4895.0	1.094	24.016	48.928	59.901
Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRIF Acquired: 6/27/2008 16:00:35 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2012.1**	**65279.**	**382790.**
Stddev	.9	162.	1391.
%RSD	.04263	.24812	.36324
#1	2011.4	65318.	384280.
#2	2011.9	65101.	381520.
#3	2013.1	65418.	382580.

Sample Name: ICSAF Acquired: 6/27/2008 16:05:30 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**252190.**	**-2.2480**	**-2.3175**	**2.5190**	**.49604**	**2.2816**	**244940.**
Stddev	150.	1.7749	2.0463	.1419	.01886	.0602	1558.
%RSD	.05965	78.956	88.298	5.6339	3.8014	2.6367	.63627
#1	252120.	-.24064	-4.0331	2.6209	.51200	2.3494	243330.
#2	252090.	-3.6098	-2.8669	2.5791	.50089	2.2345	245060.
#3	252370.	-2.8937	-.05259	2.3569	.47523	2.2610	246440.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**48.063**	**2.5772**	**25.673**	**97178.**	**25.109**	**268150.**	**19.909**
Stddev	.321	.2232	.228	252.	2.287	448.	.168
%RSD	.66710	8.6610	.88722	.25928	9.1099	.16718	.84354
#1	48.206	2.4878	25.934	96962.	22.994	267660.	20.022
#2	47.695	2.8313	25.518	97118.	24.796	268250.	19.716
#3	48.286	2.4126	25.566	97455.	27.537	268540.	19.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.227**	**23.832**	**16.035**	**1.3341**	**10.319**	**820.67**	**9.662**
Stddev	.402	.513	14.408	3.6178	.277	8.75	.304
%RSD	32.79	2.1527	89.855	271.18	2.6832	1.0661	3.151
#1	-1.547	23.849	11.855	3.7518	10.628	826.98	9.975
#2	-.7754	24.336	4.1789	-2.8251	10.093	824.35	9.644
#3	-1.358	23.311	32.071	3.0756	10.236	810.68	9.367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSAF Acquired: 6/27/2008 16:05:30 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**3.9485**	**-13.494**	**34.390**
Stddev	.8363	.618	.310
%RSD	21.181	4.5791	.90267
#1	4.3350	-13.612	34.041
#2	2.9889	-12.825	34.634
#3	4.5218	-14.044	34.496
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1731.0**	**61905.**	**351880.**
Stddev	2.2	130.	1373.
%RSD	.12784	.21043	.39022
#1	1730.9	61931.	351320.
#2	1733.2	62019.	353440.
#3	1728.8	61763.	350870.

Sample Name: ICSABF Acquired: 6/27/2008 16:10:33 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**253070.**	**652.64**	**107.81**	**518.16**	**505.43**	**1032.5**	**247420.**
Stddev	397.	1.05	.44	.83	.44	.4	130.
%RSD	.15702	.16056	.40769	.16009	.08656	.03618	.05245
#1	253510.	653.82	108.14	518.98	505.71	1032.9	247270.
#2	252930.	651.84	107.99	517.32	505.65	1032.2	247520.
#3	252760.	652.25	107.31	518.18	504.92	1032.3	247470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**574.59**	**522.61**	**558.85**	**97805.**	**77.649**	**267710.**	**527.96**
Stddev	.54	.72	.62	173.	1.625	265.	.82
%RSD	.09449	.13739	.11118	.17686	2.0934	.09893	.15450
#1	574.33	522.57	559.46	97846.	78.024	267760.	528.78
#2	574.22	521.92	558.22	97954.	79.054	267940.	527.95
#3	575.21	523.35	558.87	97616.	75.869	267420.	527.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.244**	**1075.8**	**24.907**	**56.324**	**221.29**	**837.49**	**10.28**
Stddev	.108	1.8	12.961	1.270	.21	5.42	.07
%RSD	8.717	.16990	52.037	2.2538	.09393	.64743	.6891
#1	-1.130	1077.8	32.902	57.469	221.32	833.39	10.27
#2	-1.346	1075.1	9.9531	54.959	221.07	843.64	10.35
#3	-1.256	1074.4	31.867	56.544	221.48	835.43	10.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSABF Acquired: 6/27/2008 16:10:33 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**111.87**	**485.36**	**1072.5**
Stddev	1.89	.61	2.0
%RSD	1.6854	.12656	.18760
#1	113.19	485.52	1070.2
#2	109.71	484.69	1073.4
#3	112.71	485.89	1074.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1734.3**	**61631.**	**351510.**
Stddev	3.9	104.	526.
%RSD	.22654	.16859	.14976
#1	1730.0	61619.	350990.
#2	1737.7	61534.	351500.
#3	1735.3	61740.	352040.

Sample Name: CCV3 Acquired: 6/27/2008 16:15:26 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24528.**	**4915.1**	**727.66**	**4943.2**	**752.22**	**757.27**	**24483.**	**4942.9**	**4882.1**
Stddev	29.	2.2	3.35	5.7	.88	1.55	35.	5.0	4.5
%RSD	.11673	.04509	.45972	.11484	.11740	.20441	.14421	.10181	.09312
#1	24560.	4917.7	726.44	4937.8	751.43	756.98	24451.	4948.5	4886.6
#2	24505.	4914.0	725.10	4949.1	753.18	755.89	24521.	4938.8	4877.5
#3	24519.	4913.7	731.45	4942.8	752.06	758.95	24476.	4941.5	4882.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4947.1**	**24603.**	**759.40**	**24785.**	**4926.6**	**-2.140**	**4847.3**	**24527.**	**763.97**
Stddev	8.2	28.	3.07	25.	9.6	.245	2.3	20.	5.30
%RSD	.16554	.11424	.40420	.09902	.19396	11.43	.04647	.08223	.69409
#1	4951.5	24575.	760.70	24773.	4917.2	-2.026	4847.5	24519.	764.36
#2	4937.7	24631.	755.89	24769.	4936.3	-2.421	4845.0	24550.	758.49
#3	4952.1	24602.	761.60	24814.	4926.2	-1.974	4849.5	24512.	769.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**769.23**	**24822.**	**5.550**	**712.58**	**5007.6**	**4941.9**
Stddev	.88	39.	.297	2.85	1.1	5.1
%RSD	.11377	.15615	5.346	.39958	.02237	.10362
#1	768.85	24835.	5.359	715.71	5008.6	4944.1
#2	768.61	24853.	5.892	710.15	5006.4	4936.0
#3	770.23	24779.	5.399	711.87	5007.6	4945.5
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV3 Acquired: 6/27/2008 16:15:26 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1964.1**	**64497.**	**376160.**
Stddev	.5	100.	540.
%RSD	.02464	.15498	.14350
#1	1963.5	64427.	375560.
#2	1964.4	64452.	376610.
#3	1964.2	64611.	376310.

Sample Name: CCB3 Acquired: 6/27/2008 16:20:09 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**7.9662**	**.90309**	**-1.8442**	**.36331**	**.20063**	**.06065**	**15.007**	**.35127**
Stddev	15.819	.69283	.8484	.04823	.06042	.07112	5.188	.11876
%RSD	198.58	76.717	46.003	13.274	30.117	117.25	34.571	33.808
#1	.23976	1.0950	-2.3695	.40731	.14655	.04874	10.985	.38667
#2	-2.5049	.13454	-.86542	.37086	.26585	.13698	13.173	.21884
#3	26.164	1.4797	-2.2976	.31175	.18949	-.00376	20.862	.44830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.14608**	**.30158**	**10.785**	**-.87797**	**-2.8589**	**.60654**	**-.0529**	**.27084**
Stddev	.23754	.15956	.590	.91311	16.470	.29479	.1571	.03487
%RSD	162.62	52.908	5.4749	104.00	576.08	48.601	297.1	12.873
#1	-.09408	.26358	10.351	-1.8136	-17.830	.45444	.1238	.31071
#2	.38091	.16445	10.546	-.83119	14.783	.41887	-.1056	.24606
#3	.15140	.47670	11.457	.01085	-5.5301	.94631	-.1767	.25575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**28.585**	**-.95299**	**-1.3803**	**-1.9232**	**.2169**	**-.79245**	**.44628**	**.64113**
Stddev	8.251	.61813	.2949	1.7442	.4403	.10869	.44595	.06996
%RSD	28.865	64.863	21.364	90.694	203.0	13.716	99.925	10.912
#1	20.995	-.45550	-1.2223	.07986	.6578	-.84701	.78501	.57676
#2	27.392	-.75849	-1.1981	-2.7428	.2157	-.86306	.61278	.71558
#3	37.367	-1.6450	-1.7205	-3.1067	-.2228	-.66729	-.05896	.63105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB3 Acquired: 6/27/2008 16:20:09 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2012.4**	**64885.**	**382350.**
Stddev	2.6	143.	847.
%RSD	.13130	.21991	.22156
#1	2009.6	64907.	382770.
#2	2014.8	65016.	381370.
#3	2013.0	64733.	382900.

Sample Name: MH2682 Acquired: 6/27/2008 16:25:08 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1072.9**	**65.190**	**49.934**	**331.50**	**.13244**	**5.2158**	**17593.**	**3.1279**
Stddev	29.6	2.040	1.131	.84	.07088	.0783	32.	.1473
%RSD	2.7542	3.1295	2.2644	.25377	53.520	1.5009	.18066	4.7085
#1	1102.0	64.648	48.672	331.93	.05295	5.2470	17556.	3.0796
#2	1074.0	63.476	50.855	332.04	.18906	5.1267	17608.	3.2933
#3	1042.9	67.447	50.276	330.53	.15531	5.2737	17615.	3.0109

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.8877**	**59.764**	**2464.7**	**1353.6**	**2776.7**	**875.60**	**3.429**	**2.2013**
Stddev	.1655	.320	3.4	3.7	15.9	1.30	.193	.6588
%RSD	8.7671	.53623	.13970	.27685	.57292	.14902	5.640	29.930
#1	2.0771	60.134	2461.5	1349.6	2774.6	874.27	3.621	2.4991
#2	1.8154	59.565	2464.3	1357.0	2793.6	876.88	3.433	2.6586
#3	1.7707	59.594	2468.3	1354.4	2762.0	875.65	3.234	1.4461

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1405.3**	**3.7896**	**7.2957**	**5151.1**	**30.87**	**-.57305**	**1.4707**	**1245.8**
Stddev	6.9	4.7613	.4069	21.9	.59	.25453	.4034	2.9
%RSD	.49379	125.64	5.5774	.42467	1.909	44.416	27.430	.23225
#1	1413.2	4.8823	7.7265	5155.4	30.80	-.45568	1.0157	1245.8
#2	1400.1	-1.4231	6.9178	5170.5	30.32	-.39838	1.7847	1248.7
#3	1402.6	7.9096	7.2427	5127.4	31.49	-.86508	1.6117	1242.9

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1896.5**	**64471.**	**378610.**
Stddev	2.6	136.	951.
%RSD	.13702	.21071	.25114
#1	1893.5	64367.	377600.
#2	1897.6	64420.	378770.
#3	1898.3	64624.	379480.

Sample Name: MH2684 Acquired: 6/27/2008 16:30:02 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**352.11**	**109.28**	**-.22700**	**415.32**	**.02374**	**1.0259**	**26215.**	**1.1072**
Stddev	15.21	1.87	1.0682	.72	.05581	.0295	58.	.0829
%RSD	4.3199	1.7143	470.58	.17437	235.12	2.8711	.21977	7.4868
#1	352.60	107.72	-.02689	415.87	-.02606	1.0251	26152.	1.1936
#2	367.07	108.75	-1.3811	414.50	.08405	.99681	26227.	1.0998
#3	336.66	111.36	.72702	415.60	.01321	1.0557	26266.	1.0283

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1.8164**	**12.440**	**370.95**	**45.315**	**4449.9**	**2293.8**	**6.822**	**2.7810**
Stddev	.2149	.338	.91	1.115	4.7	2.2	.123	.3564
%RSD	11.829	2.7133	.24605	2.4616	.10576	.09792	1.804	12.816
#1	1.7737	12.381	369.97	44.848	4449.7	2291.2	6.680	2.3969
#2	2.0495	12.804	371.77	44.509	4454.7	2294.8	6.886	3.1010
#3	1.6262	12.136	371.13	46.588	4445.3	2295.4	6.899	2.8451

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**867.14**	**2.4028**	**.06597**	**7139.6**	**11.39**	**-1.0053**	**.83518**	**496.43**
Stddev	7.93	1.2651	.41762	7.0	.62	.6083	.45665	.95
%RSD	.91497	52.651	633.10	.09831	5.443	60.509	54.677	.19044
#1	861.97	3.2242	-.17527	7147.2	12.10	-1.2149	.45009	495.43
#2	876.27	3.0381	.54820	7133.4	10.99	-1.4812	1.3397	496.56
#3	863.17	.94594	-.17503	7138.2	11.07	-.31994	.71578	497.30

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1892.8**	**64093.**	**375700.**
Stddev	2.1	36.	1621.
%RSD	.11030	.05547	.43159
#1	1890.5	64052.	375840.
#2	1893.2	64117.	374010.
#3	1894.7	64110.	377240.

Sample Name: MH2687 Acquired: 6/27/2008 16:34:57 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**570.15**	**425.02**	**23.890**	**267.54**	**.15344**	**1.4135**	**14230.**	**3.3660**
Stddev	4.86	1.33	.155	.03	.09013	.1449	62.	.1200
%RSD	.85283	.31287	.64777	.01244	58.743	10.250	.43467	3.5651
#1	564.58	424.05	24.046	267.51	.24928	1.4374	14159.	3.2738
#2	573.52	424.47	23.737	267.57	.14066	1.5449	14258.	3.5017
#3	572.36	426.53	23.886	267.55	.07037	1.2581	14273.	3.3226

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.47978**	**58.067**	**885.14**	**625.81**	**2388.0**	**309.54**	**3.377**	**1.8498**
Stddev	.18433	.455	2.59	3.52	4.8	.97	.090	.1513
%RSD	38.420	.78320	.29303	.56211	.20147	.31325	2.679	8.1803
#1	-.58032	58.367	882.16	628.99	2382.5	308.42	3.409	1.6982
#2	-.26704	58.290	886.42	626.41	2391.0	310.15	3.275	1.8505
#3	-.59197	57.544	886.85	622.03	2390.6	310.05	3.447	2.0008

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1219.0**	**2.9981**	**3.9451**	**4150.9**	**13.43**	**-.56980**	**1.1545**	**396.20**
Stddev	21.7	1.4187	.1568	9.4	.12	.88766	.0281	1.13
%RSD	1.7841	47.318	3.9759	.22722	.8937	155.79	2.4365	.28526
#1	1242.8	3.6348	4.1262	4160.5	13.37	.44921	1.1288	395.32
#2	1200.2	1.3727	3.8575	4141.7	13.57	-1.1751	1.1502	395.81
#3	1214.0	3.9869	3.8516	4150.6	13.35	-.98355	1.1845	397.48

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1910.0**	**64585.**	**379410.**
Stddev	2.2	35.	1324.
%RSD	.11496	.05437	.34891
#1	1908.0	64580.	378010.
#2	1912.3	64622.	379570.
#3	1909.8	64553.	380640.

Sample Name: MH2689 Acquired: 6/27/2008 16:39:52 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**557.92**	**45.748**	**14.654**	**346.74**	**.13148**	**3.3111**	**18236.**	**2.0636**
Stddev	8.62	.701	.598	.69	.07135	.0317	56.	.1345
%RSD	1.5443	1.5324	4.0774	.19938	54.267	.95705	.30948	6.5179
#1	555.46	45.948	15.342	346.42	.08741	3.3462	18248.	2.1034
#2	567.50	44.969	14.263	346.28	.09323	3.3024	18174.	1.9136
#3	550.81	46.327	14.358	347.54	.21380	3.2847	18285.	2.1736

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.71014**	**27.865**	**1416.3**	**579.43**	**2840.3**	**880.20**	**4.840**	**2.4566**
Stddev	.36949	.451	3.3	2.20	9.0	1.84	.177	.2841
%RSD	52.031	1.6192	.23497	.37919	.31735	.20939	3.653	11.564
#1	.28360	28.131	1416.2	577.75	2845.9	880.30	4.942	2.6929
#2	.91478	28.120	1413.0	578.64	2845.1	878.31	4.943	2.5355
#3	.93203	27.345	1419.6	581.92	2829.9	881.99	4.636	2.1414

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**2591.5**	**2.6637**	**2.2008**	**4978.5**	**13.34**	**-1.0103**	**.75713**	**655.01**
Stddev	24.1	.3766	.2272	12.7	.64	.3550	.18111	.89
%RSD	.92948	14.137	10.322	.25473	4.828	35.137	23.920	.13638
#1	2608.4	2.3771	2.2055	4968.5	13.74	-1.1683	.80667	655.12
#2	2563.9	3.0902	1.9714	4992.8	13.68	-1.2590	.90832	654.07
#3	2602.2	2.5238	2.4256	4974.4	12.60	-.60376	.55641	655.84

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1894.7**	**64400.**	**377440.**
Stddev	4.8	131.	931.
%RSD	.25371	.20409	.24679
#1	1889.3	64310.	377700.
#2	1898.5	64551.	376410.
#3	1896.4	64340.	378220.

Sample Name: MH2691 Acquired: 6/27/2008 16:44:46 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**553.63**	**24.757**	**2.5510**	**272.52**	**.06910**	**.66013**	**9722.9**	**1.8449**
Stddev	15.43	.364	1.1057	.21	.07209	.10094	7.6	.1384
%RSD	2.7866	1.4693	43.343	.07802	104.33	15.291	.07861	7.5046
#1	547.18	24.635	1.3036	272.76	.13368	.67397	9720.6	1.7666
#2	571.23	24.470	3.4102	272.35	-.00868	.55299	9731.5	2.0047
#3	542.47	25.166	2.9391	272.44	.08230	.75344	9716.7	1.7633

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.39495**	**14.513**	**599.51**	**86.477**	**1819.5**	**391.53**	**4.393**	**1.6210**
Stddev	.05495	.209	1.90	.996	3.2	.26	.060	.1771
%RSD	13.913	1.4414	.31677	1.1523	.17757	.06676	1.362	10.922
#1	.41118	14.298	599.21	86.105	1815.7	391.64	4.354	1.4467
#2	.43995	14.716	597.77	85.720	1821.0	391.72	4.363	1.6157
#3	.33371	14.526	601.53	87.606	1821.6	391.23	4.462	1.8007

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**1560.6**	**3.4961**	**-.08487**	**7606.5**	**16.23**	**-1.4382**	**.95153**	**157.14**
Stddev	16.4	1.5160	.20045	19.1	.51	.4230	.55341	.47
%RSD	1.0479	43.361	236.20	.25109	3.149	29.409	58.160	.29840
#1	1552.0	2.6588	.09553	7624.9	15.64	-.95526	.98121	157.13
#2	1550.4	2.5835	-.30065	7586.8	16.55	-1.7427	.38388	156.68
#3	1579.5	5.2460	-.04947	7607.8	16.49	-1.6166	1.4895	157.62

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1911.2**	**64799.**	**381820.**
Stddev	3.4	119.	201.
%RSD	.17988	.18346	.05277
#1	1908.7	64677.	381670.
#2	1915.1	64805.	381730.
#3	1909.7	64915.	382050.

Sample Name: MH2693 Acquired: 6/27/2008 16:49:42 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**613.60**	**81.955**	**8.3283**	**343.22**	**.14431**	**2.4394**	**11509.**	**1.8283**
Stddev	4.13	.475	1.3320	2.05	.04225	.0133	77.	.1477
%RSD	.67265	.57956	15.993	.59647	29.280	.54440	.66555	8.0770
#1	615.71	82.099	7.0344	345.50	.15964	2.4517	11571.	1.7287
#2	608.84	81.425	8.2553	342.65	.17676	2.4253	11532.	1.9979
#3	616.24	82.342	9.6953	341.53	.09653	2.4411	11424.	1.7581

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.32284**	**33.299**	**970.38**	**289.42**	**2001.9**	**419.17**	**2.711**	**1.9884**
Stddev	.16811	.427	3.41	.76	10.8	.79	.113	.3044
%RSD	52.072	1.2820	.35148	.26114	.54156	.18805	4.181	15.310
#1	.18507	33.370	973.68	290.18	2013.8	419.65	2.722	1.7344
#2	.51016	33.687	970.57	288.67	1999.5	419.60	2.817	1.9049
#3	.27330	32.842	966.87	289.41	1992.5	418.26	2.592	2.3258

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**981.84**	**3.0820**	**1.2389**	**5319.5**	**15.43**	**-1.0828**	**1.0070**	**450.18**
Stddev	29.64	1.1091	.2369	47.8	.28	1.1779	.4357	.51
%RSD	3.0191	35.988	19.120	.89838	1.841	108.79	43.265	.11347
#1	962.16	3.6672	1.2102	5374.4	15.63	-1.3681	1.5047	449.66
#2	1015.9	3.7759	1.4888	5296.9	15.55	.21163	.82209	450.18
#3	967.43	1.8028	1.0177	5287.2	15.10	-2.0918	.69429	450.69

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1907.2**	**64765.**	**380870.**
Stddev	3.5	7.	270.
%RSD	.18571	.01068	.07089
#1	1904.0	64771.	380940.
#2	1911.0	64767.	380580.
#3	1906.5	64758.	381100.

Sample Name: ZZZZZZ Acquired: 6/27/2008 16:54:36 Type: Unk
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: MW1
Comment: RB

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**5.8964**	**-1.3014**	**-3.5876**	**.17069**	**.15565**	**.12688**	**20.702**	**-.06184**
Stddev	8.1974	.9137	1.7281	.13557	.04367	.05507	1.771	.20298
%RSD	139.02	70.207	48.167	79.423	28.058	43.406	8.5534	328.22
#1	-3.5624	-2.2352	-2.1616	.25922	.10876	.09416	18.974	.17227
#2	10.934	-1.2598	-3.0919	.01462	.16304	.19046	22.513	-.16921
#3	10.317	-.40925	-5.5094	.23823	.19516	.09601	20.619	-.18858

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-.41933**	**.04188**	**19.243**	**.88249**	**-13.124**	**.12491**	**.4431**	**.24832**
Stddev	.29823	.21549	.678	1.1933	7.255	.06044	.1610	.52597
%RSD	71.120	514.56	3.5255	135.22	55.284	48.390	36.33	211.81
#1	-.23610	-.14394	18.465	1.9251	-18.905	.07337	.2969	.04460
#2	-.76345	-.00854	19.551	-.41904	-15.485	.10993	.6156	.84567
#3	-.25844	.27811	19.713	1.1414	-4.9820	.19144	.4167	-.14533

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**17.356**	**-.26660**	**-2.2150**	**1.4757**	**.0817**	**-.59075**	**-.07013**	**.49273**
Stddev	12.330	.78640	.3909	1.9557	.6095	.34450	.28330	.23214
%RSD	71.044	294.98	17.649	132.53	745.7	58.316	403.97	47.113
#1	3.1241	.27804	-2.6569	.03018	.7855	-.64936	-.12094	.27883
#2	24.107	.09033	-2.0734	.69593	-.2760	-.22070	.23513	.73959
#3	24.835	-1.1682	-1.9145	3.7009	-.2643	-.90219	-.32458	.45977

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1950.9**	**64909.**	**382870.**
Stddev	1.9	242.	228.
%RSD	.09549	.37335	.05950
#1	1951.8	64790.	382750.
#2	1952.1	65188.	383130.
#3	1948.7	64749.	382730.

Sample Name: CRIF2 Acquired: 6/27/2008 16:59:35 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**194.01**	**58.798**	**9.0470**	**204.53**	**5.0666**	**4.9415**	**4926.0**	**9.8945**	**49.616**
Stddev	16.65	1.119	2.0480	.10	.0127	.0495	12.4	.0696	.150
%RSD	8.5830	1.9035	22.638	.05025	.25149	1.0028	.25161	.70324	.30270
#1	175.19	57.999	10.016	204.65	5.0726	4.9716	4925.9	9.9202	49.457
#2	206.84	58.318	6.6944	204.47	5.0520	4.8844	4938.5	9.9477	49.756
#3	200.01	60.077	10.431	204.48	5.0752	4.9687	4913.7	9.8158	49.635
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24.889**	**100.98**	**9.9269**	**4892.7**	**15.357**	**-.1278**	**39.698**	**4916.5**	**33.902**
Stddev	.215	.81	2.3518	29.1	.238	.0208	.043	14.0	1.192
%RSD	.86571	.80423	23.691	.59519	1.5468	16.27	.10828	.28570	3.5151
#1	24.944	101.05	7.2267	4920.7	15.247	-.1518	39.698	4916.7	35.267
#2	24.652	100.14	11.527	4894.8	15.194	-.1162	39.654	4930.4	33.069
#3	25.072	101.76	11.027	4862.6	15.629	-.1154	39.740	4902.3	33.369
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**9.4705**	**4941.9**	**.4101**	**23.873**	**49.648**	**59.949**
Stddev	.0175	15.1	.4339	1.169	.676	.288
%RSD	.18473	.30552	105.8	4.8952	1.3622	.48087
#1	9.4761	4955.6	.6747	23.832	49.332	59.692
#2	9.4844	4944.3	.6462	25.061	50.425	60.261
#3	9.4508	4925.7	-.0907	22.725	49.188	59.894
Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRIF2 Acquired: 6/27/2008 16:59:35 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2006.7**	**64881.**	**380930.**
Stddev	1.2	130.	1327.
%RSD	.05927	.20002	.34828
#1	2007.1	65016.	379400.
#2	2005.3	64758.	381730.
#3	2007.6	64868.	381660.

Sample Name: ICSAF2 Acquired: 6/27/2008 17:04:33 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**253630.**	**-5.1957**	**-1.6458**	**2.4589**	**.56040**	**2.1531**	**245380.**
Stddev	316.	2.2137	3.2034	.0916	.03257	.1195	550.
%RSD	.12441	42.606	194.64	3.7275	5.8126	5.5518	.22398
#1	253560.	-4.7848	-4.8637	2.4183	.53035	2.2875	245310.
#2	253360.	-3.2162	1.5430	2.3945	.59502	2.1131	244860.
#3	253980.	-7.5860	-1.6168	2.5638	.55585	2.0587	245950.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**47.963**	**2.7566**	**25.672**	**97230.**	**18.907**	**267550.**	**19.978**
Stddev	.226	.0987	.041	171.	2.763	485.	.151
%RSD	.47201	3.5819	.15964	.17623	14.612	.18133	.75481
#1	47.922	2.8683	25.705	97266.	22.019	267780.	20.100
#2	47.760	2.7203	25.626	97043.	17.955	267000.	19.809
#3	48.207	2.6811	25.684	97380.	16.746	267880.	20.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.135**	**24.196**	**27.264**	**.55816**	**9.9379**	**845.71**	**9.310**
Stddev	.159	.801	11.797	3.6231	.1431	7.36	.388
%RSD	14.04	3.3100	43.271	649.12	1.4399	.86975	4.163
#1	-1.277	23.307	35.685	-2.6898	10.047	852.71	9.282
#2	-1.164	24.419	13.780	-.10149	9.7759	846.37	9.710
#3	-.9625	24.861	32.327	4.4658	9.9905	838.04	8.937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSAF2 Acquired: 6/27/2008 17:04:33 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**3.0224**	**-13.709**	**33.672**
Stddev	.5659	.135	.179
%RSD	18.724	.98421	.53254
#1	2.5219	-13.616	33.862
#2	3.6365	-13.647	33.507
#3	2.9088	-13.863	33.646
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1728.5**	**61653.**	**351930.**
Stddev	1.0	38.	505.
%RSD	.05563	.06110	.14353
#1	1727.8	61667.	352220.
#2	1729.6	61683.	351340.
#3	1728.1	61611.	352220.

Sample Name: ICSABF2 Acquired: 6/27/2008 17:09:37 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**253050.**	**652.30**	**103.84**	**509.21**	**499.73**	**1023.9**	**242880.**
Stddev	144.	.88	1.22	.94	.65	1.6	653.
%RSD	.05695	.13545	1.1736	.18494	.13077	.15297	.26872
#1	252970.	651.36	102.51	508.13	499.41	1024.3	243470.
#2	252970.	652.41	104.10	509.63	500.48	1022.1	242990.
#3	253220.	653.12	104.90	509.87	499.30	1025.2	242180.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cr2055	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**576.26**	**522.49**	**557.70**	**96030.**	**75.428**	**266670.**	**520.74**
Stddev	.74	.35	.38	134.	1.914	304.	.39
%RSD	.12779	.06792	.06762	.13981	2.5372	.11389	.07538
#1	575.52	522.27	557.93	96029.	73.597	266780.	521.12
#2	576.26	522.30	557.91	96165.	77.415	266910.	520.34
#3	577.00	522.90	557.26	95897.	75.272	266330.	520.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5895	Ti3349
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**-1.004**	**1067.2**	**35.935**	**59.654**	**221.31**	**851.85**	**10.09**
Stddev	.292	1.4	36.431	4.266	1.35	1.40	.26
%RSD	29.12	.13082	101.38	7.1511	.61070	.16434	2.579
#1	-.6803	1067.4	26.399	55.286	222.00	853.44	10.24
#2	-1.249	1065.7	76.185	59.866	222.18	850.80	9.792
#3	-1.083	1068.5	5.2201	63.810	219.75	851.31	10.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSABF2 Acquired: 6/27/2008 17:09:37 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L
Avg	**111.45**	**474.30**	**1063.1**
Stddev	1.69	1.45	2.0
%RSD	1.5183	.30634	.18847
#1	109.86	473.42	1065.4
#2	113.23	475.98	1061.7
#3	111.25	473.50	1062.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1719.9**	**61976.**	**352820.**
Stddev	1.3	45.	405.
%RSD	.07306	.07294	.11482
#1	1719.1	61994.	352700.
#2	1719.3	61925.	352480.
#3	1721.4	62010.	353270.

Sample Name: CCV4 Acquired: 6/27/2008 17:14:31 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055	Co2286
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**24448.**	**4951.0**	**733.09**	**4982.0**	**749.51**	**758.42**	**24071.**	**4967.1**	**4895.4**
Stddev	13.	1.9	2.45	10.5	1.03	1.04	41.	4.1	8.1
%RSD	.05283	.03915	.33480	.21084	.13732	.13750	.16837	.08251	.16579
#1	24433.	4948.9	734.44	4983.4	749.65	757.35	24116.	4969.8	4891.7
#2	24457.	4951.6	730.26	4991.8	750.47	758.50	24058.	4962.4	4889.8
#3	24454.	4952.6	734.57	4970.9	748.42	759.43	24038.	4969.1	4904.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**4937.5**	**24426.**	**761.56**	**24636.**	**4888.3**	**-2.279**	**4861.5**	**24691.**	**767.51**
Stddev	13.8	27.	2.89	43.	5.1	.076	6.8	71.	1.33
%RSD	.28025	.11246	.37886	.17428	.10435	3.337	.13975	.28707	.17331
#1	4952.6	24445.	763.11	24681.	4893.1	-2.224	4856.7	24705.	766.77
#2	4925.5	24439.	763.33	24630.	4888.8	-2.247	4858.4	24754.	769.05
#3	4934.5	24395.	758.23	24596.	4882.9	-2.366	4869.2	24614.	766.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**767.05**	**24971.**	**4.886**	**717.83**	**4979.1**	**4898.8**
Stddev	2.78	59.	.498	1.70	17.2	4.7
%RSD	.36298	.23672	10.20	.23667	.34596	.09551
#1	769.10	24974.	5.192	716.27	4997.4	4894.3
#2	763.88	25028.	5.155	719.64	4963.2	4898.3
#3	768.16	24910.	4.311	717.57	4976.8	4903.7
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV4 Acquired: 6/27/2008 17:14:31 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1934.9**	**64409.**	**375750.**
Stddev	1.5	117.	1431.
%RSD	.07612	.18150	.38089
#1	1933.2	64294.	374590.
#2	1936.1	64405.	377350.
#3	1935.3	64528.	375300.

Sample Name: CCB4 Acquired: 6/27/2008 17:19:13 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554	Be3131	Cd2144	Ca3179	Cr2055
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**21.413**	**.25166**	**-1.3264**	**.51011**	**.10349**	**.09295**	**13.313**	**.06852**
Stddev	2.389	.54151	2.6119	.18337	.04240	.07993	6.420	.05829
%RSD	11.158	215.18	196.91	35.947	40.973	85.994	48.226	85.065
#1	24.155	.64500	-3.0859	.30427	.08765	.03925	5.9596	.01558
#2	20.303	-.36596	-2.5681	.65600	.15153	.05479	16.175	.05900
#3	19.780	.47594	1.6747	.57006	.07128	.18481	17.805	.13099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576	Mo2020	Ni2316
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**.10933**	**.17517**	**9.8109**	**-.49462**	**5.6624**	**.44666**	**.1085**	**.28155**
Stddev	.24077	.18306	2.7186	1.9490	16.962	.23630	.1774	.37451
%RSD	220.21	104.50	27.710	394.04	299.56	52.904	163.6	133.02
#1	-.16868	.38504	6.6730	-.75134	-12.815	.58100	-.0735	.02429
#2	.24691	.09215	11.304	-2.3025	20.528	.58515	.2809	.10915
#3	.24977	.04834	11.455	1.5700	9.2744	.17381	.1180	.71122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	K_7664	Se1960	Ag3280	Na5895	Ti3349	Tl1908	V_2924	Zn2062
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avg	**26.167**	**-.92974**	**-1.8066**	**-1.1791**	**.2775**	**.54476**	**.17592**	**1.0168**
Stddev	42.963	.69137	.1579	3.1222	.5097	.99039	.38359	.0687
%RSD	164.19	74.362	8.7413	264.80	183.6	181.80	218.04	6.7549
#1	22.888	-.15968	-1.7139	-3.7196	-.3106	-.36422	.61321	.99876
#2	-15.063	-1.4971	-1.9889	2.3065	.5907	.39826	.01830	1.0928
#3	70.676	-1.1324	-1.7169	-2.1241	.5525	1.6002	-.10374	.95901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB4 Acquired: 6/27/2008 17:19:13 Type: QC
Method: ICP07 ILM05.4 2008(v2) Mode: CONC Corr. Factor: 1.000000
User: sanchezjc SDG: MH2663 CASE: 37402 Prep: NP1
Comment:

Int. Std.	Sc2273	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2010.5**	**64910.**	**383570.**
Stddev	2.5	186.	866.
%RSD	.12195	.28581	.22590
#1	2009.4	65121.	382600.
#2	2013.4	64840.	384260.
#3	2008.9	64770.	383840.

SDG/PREP GROUP# MH2663 CONTINUED FROM PAGE#: 091

Explanations:

ILM05.4-MW1 Physical Description Log

CASE: 37402 **SDG:** MH2663 **DCL SET ID:** 8171003

Sample ID	Matrix	Method	Prep Date	Amount of Sample Used (mL)	Final Volume of Digested Samples (mL)	pH	Color/Clarity, Texture		Init.
							Before	After	
PBW	ASTM Type II H_2O	ILM05.4 MW1	6/24/2008	45 mL	50 mL	NA	N/CL	N/CL	KK
LCSW	↓					NA	N/CL	N/CL	
MH2663	Water					<2	N/CL	N/CL	
MH2665									
MH2667									
MH2669									
MH2671									
MH26D2									
MH25A5									
MH2674									
MH2676									
MH2678									
MH2680									
MH2682									
MH2684									
MH2687									
MH2689									
MH2691									
MH2693									
MH2695									
MH2695S									
MH2695D	↓	↓	↓	↓	↓	↓	↓	↓	↓

COLOR			TEXTURE	CLARITY
BL = Black	N = Colorless	BR = Brown	F = Fine	CL = Clear
Y = Yellow	GR = Gray	GN = Green	M = Medium	CO = Cloudy
	R = Red	O = Orange	C = Coarse	

KK 6/25/08

KK 6/25/08

CONTINUED ON PAGE# X

Preparer Signature/Date: 6/25/08

Reviewer Signature/Date: 6/25/08

SAMPLE TAG INFORMATION SHEET

There are no Sample Tags included with this SDG
The TR/COC lists tag numbers and the DC-1 reflects this, however the Lab did not receive actual tags for this case. In the future communication between Sample Receipt and Log-in will include the status of the tags.

Notations concerning the location of the Sample Tags are included in Forms DC-1, DC-2 and in the SDG Administrative Narrative (if it is required).

Sample Delivery Group (SDG)
Cover Sheet

SDG Number: MH2663

☒ ICPAES ☐ ICPMS ☐ HG ☐ CN

Laboratory Name: DataChem Laboratories, Inc.

Laboratory Code: DATAC

Contract No.: EP-W-06-054

Case No.: 37402

Analysis Price: N/A

SDG Turnaround: 21

Modified Analysis (if applicable):

Modification Reference No.: 1553.0

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MH25A5	7) MH2674	13) MH2687	19)
2) MH2663	8) MH2676	14) MH2689	20)
3) MH2665	9) MH2678	15) MH2691	21)
4) MH2667	10) MH2680	16) MH2693	22)
5) MH2669	11) MH2682	17) MH2695	23)
6) MH2671	12) MH2684	18) MH26D2	24)

MH25A5

First Sample in SDG

MH26D2

Last Sample in SDG

06/18/08

First Sample Receipt Date

06/18/08

Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach the TR/COC records to this form in alphanumeric order (the order listed above on this form).*

Signature: Meredith Edwards

Date: 6/19/2008

DataChem Laboratories, Inc.
CHAIN-OF-CUSTODY

Project / Job / Task: P056L001 | **Split:** | **Workorder ID:** 8171003

Client: U. S. EPA Region 8 | **Account:** 08201

Comments:

Requested Analysis: Solids/Moisture; LM05.4 ICP-AES, Soil; LM05.4 Prep/Extn/Dig

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers	Count	Solids/Moisture	LM05.4 ICP-AES, Soil	LM05.4 Prep/Extn/Dig
1	6/3/2008 09:45	MH2663	8171003001		Soil/Solids/Sediment		1	X	X	X
2	6/3/2008 10:50	MH2665	8171003002		Soil/Solids/Sediment		1	X	X	X
3	6/3/2008 10:15	MH2667	8171003003		Soil/Solids/Sediment		1	X	X	X
4	6/3/2008 11:30	MH2669	8171003004		Soil/Solids/Sediment		1	X	X	X
5	6/3/2008 12:30	MH2671	8171003005		Soil/Solids/Sediment		1	X	X	X
6	6/3/2008 14:20	MH26D2	8171003006		Soil/Solids/Sediment		1	X	X	X
7	6/3/2008 15:30	MH25A5	8171003007		Soil/Solids/Sediment		1	X	X	X
8	6/4/2008 10:45	MH2674	8171003008		Soil/Solids/Sediment		1	X	X	X
9	6/4/2008 11:45	MH2676	8171003009		Soil/Solids/Sediment		1	X	X	X
10	6/4/2008 12:25	MH2678	8171003010		Soil/Solids/Sediment		1	X	X	X

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/18/2008 08:15	DCL Sample Receiving	Sample Login
Meredith Edwards	06/19/08 1115	R-403-1 KK	Storage
R-403-1 KK	06/23/08 12:00	Jimmy Chang	Split BET
Jimmy Chang	06/24/08 10:00	R-403 KK	STOR
R-403-1 KK	6/24/08 1500	[illegible]	Metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP Metals | Lab Notebook No.: 350

Prepared / Analyzed by: [illegible] | Date / Time: 6/25/08 1500

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
[illegible]	6/25/08 1420	R-403-1 KK	storage
R-403-1 KK	6/27/08 8:40	ICP Lab KK	analysis

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DataChem Laboratories, Inc.
CHAIN-OF-CUSTODY

Project / Job / Task: P056L001 | **Split:** | **Workorder ID:** 8171003

Client: U. S. EPA Region 8 | **Account:** 08201

Comments:

Preservatives: COOL

Item	Collect Date/Time	Sample ID	Lab ID	QC	Matrix	Containers	Count	Solids/Moisture	LM05.4 ICP-AES, Soil	LM05.4 Prep/Ext/Dig
11	6/4/2008 12:50	MH2680	8171003011		Soil/Solids/Sediment		1	X	X	X
12	6/4/2008 13:05	MH2682	8171003012		Soil/Solids/Sediment		1	X	X	X
13	6/4/2008 15:20	MH2684	8171003013		Soil/Solids/Sediment		1	X	X	X
14		MH2687	8171003014		Soil/Solids/Sediment		1	X	X	X
15	6/4/2008 14:30	MH2689	8171003015		Soil/Solids/Sediment		1	X	X	X
16	6/5/2008 07:30	MH2691	8171003016		Soil/Solids/Sediment		1	X	X	X
17	6/4/2008 15:50	MH2693	8171003017		Soil/Solids/Sediment		1	X	X	X
18	6/5/2008 09:55	MH2695	8171003018		Soil/Solids/Sediment		1	X	X	X
19	6/5/2008 09:55	MH2695S	8171003019	MS	Soil/Solids/Sediment		1		X	X
20	6/5/2008 09:55	MH2695D	8171003020	MD	Soil/Solids/Sediment		1	X	X	X

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Edwards, Meredith D.	06/18/2008 08:15	DCL Sample Receiving	Sample Login
Meredith Edwards	6/18/08 1115	R. Wm. Lant	Storage
R-324-1 mje	06/23/08 12:00	Jimmy Chang	Strip ZBT
Jimmy Chang	06/24/08 10:00	R-403 Jyc	STOR
R-403-1 KK	6/24/08 1500	KK	Metals

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep / Analysis for: ICP Metals | Lab Notebook No.: 350

Prepared / Analyzed by: KK | Date / Time: 6/24/08 1500

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
KK	6/25/08 1420	R-403-1 KK	storage
R-403 JDS	6/27/08 8:40	ICP Lab JDS	analysis

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TITLE SPLP write up ~~mjc 06/23/08~~

Project No. _____
Book No. 4648

Account #: 8201	Initial Date/Time: 06/23/08/12:00	Client: U.S. EPA	Book #:	Page #:
DCL Set ID's: 8171003	Filter Date/Time: 06/24/08/10:00	Region 8	TCLP23	5T
—	Tumble Start Date/Time: 06/23/08/14:00	Tumbling Start Temp: 24.0C		
—	Tumble End Date/Time: 06/24/08/10:00	Tumbling End Temp: 23.0C		
—	SOP: 06-SW-1312	Temp. Min: 23.0C		
—	Page: 1 of 3	Temp. Max: 24.0C		

DCL Sample ID:	SPLP BL	OC	8171003001	8171003002	8171003003	8171003004	8171003005	8171003006	8171003007	8171003008
Field ID:	—	—	MH2663	MH2665	MH2667	MH2669	MH2671	MH2672	MH2675	MH2674
Weight Tumbled:	—	—	100g	100g	100g	100g	100g	100g	100g	100g
Fluid Tumbled:	2000ml	~~mjc~~	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml
ZHE Sample Weight										
ZHE Fluid Amount										
ZHE Number				NA ~~mjc 06/23/08~~						
Initial pH:	—	—	—	—	—	—	—	—	—	—
Adjusted pH:	—	—	—	—	—	—	—	—	—	—
Final pH:	5.58	5.58	7.55	7.39	7.47	7.89	7.86	7.83	7.71	7.75
Fluid Number:	SPLP F#2									~~mjc~~
Batch Number:	072									~~mjc~~
% Liquid By Weight:	100%	100%	≈0	≈0	≈0	≈0	≈0	≈0	≈0	≈0
% Solid By Weight:	0	0	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%
% Other By Weight:	0									~~mjc~~
ICP/HG Acid Spike:	NA NS	A NS	A NS	A NS	A NS	A NS	A NS	A NS	A NS	A NS

Key For Above Spikes: A = Acidified N = Not Acidified NS = Not Spiked S = Spiked

Groups:	Blank ID's:	Spiking Solutions	Comments:
ICP	TB-	ICP ID #: NA	Balance #108750
HG	TB-	Amt Spiked:	
Pest	TB-	Spiked By:	
Herb	TB-	HG ID #:	~~mjc 06/23/08~~
SV	TB-	Amt Spiked:	
VOA	TB-	Spiked By:	

06/26/08 [illegible]

To Page No. 2

Witnessed & Understood by me,	Date	Invented by: NA	Date
[signature]	6/23/08	Recorded by: [signature]	06/23/08

TITLE SPLP Write up ~~mp 06/23/08~~

Project No. _____

Book No. 4648

Account #: 8201	Initial Date/Time: 06/23/08/12:00	Client: US. EPA	Book #:	Page #:
DCL Set ID's: 81/003	Filter Date/Time: 06/24/08/10:00	Region 8	TCLP23	52
—	Tumble Start Date/Time: 06/23/08/12:00	Tumbling Start Temp: 24.0C		
—	Tumble End Date/Time: 06/24/08/10:00	Tumbling End Temp: 23.0C		
—	SOP: OB-SPL-1312	Temp. Min: 23.0C		
—	Page: 2 of 3	Temp. Max: 24.0C		

DCL Sample ID:	81/003009	81/003010	81/003011	81/003012	81/003013	81/003014	81/003015	81/003016	81/003017	81/003018
Field ID:	MH 2676	MH 2678	MH2680	MH2682	MH2684	MH2687	MH2689	MH2691	MH2693	MH2695
Weight Tumbled:	100g	100g	100g	100g	100g	100g	100g	100g	100g	100g
Fluid Tumbled:	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml	2000ml
ZHE Sample Weight										
ZHE Fluid Amount										
ZHE Number										
Initial pH:	—	—	—	—	—	—	—	—	—	—
Adjusted pH:	—	—	—	—	—	—	—	—	—	—
Final pH:	7.90	7.98	7.80	7.67	7.49	7.88	7.49	7.61	7.45	7.66
Fluid Number:	SPLP F#2									
Batch Number:	072									
% Liquid By Weight:	≈0	≈0	≈0	≈0	≈0	≈0	≈0	≈0	≈0	≈0
% Solid By Weight:	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%	≈100%
% Other By Weight:	0									
ICP/HG Acid Spike:	A NS	A NS	A NS	A NS	A NS	A NS	A NS	A NS	A NS	A NS

Key For Above Spikes: A = Acidified N = Not Acidified NS = Not Spiked S = Spiked

Groups:	Blank ID's:	Spiking Solutions	Comments:
ICP	TB-	ICP ID #:	Balance #108730
HG	TB-	Amt Spiked:	
Field	TB-	Spiked By:	
Hard	TB-	HG ID #:	
SV	TB-	Amt Spiked:	
VOA	TB-	Spiked By:	

NA ~~mp 06/23/08~~

mp 06/26/08

To Page No. 3

Witnessed & Understood by me,	Date	Invented by: NA	Date
	6/23/08	Recorded by: Jimmy Chang	06/23/08

TITLE SPLP write up mjc 06/23/08

Project No. _____

Book No. 4648

Account #: 8201	Initial Date/Time: 06/23/08/12:00	Client: U.S. EPA	Book #: TCLP 23	Page #: 53
DCL Set ID's: 8171003	Filter Date/Time: 06/24/08 10:00	Region 8		
—	Tumble Start Date/Time: 06/23/08/14:00	Tumbling Start Temp: 24°C		
—	Tumble End Date/Time: 06/24/08/10:00	Tumbling End Temp: 23°C		
—	SOP: DB-SW-1312	Temp. Min: 23°C		
—	Page: 3 of 3	Temp. Max: 24°C		

DCL Sample ID:	8171003018 MB	8171003019 MS	8171003020 MSD
Field ID:	MH2695	MH2695S	MH2695D
Weight Tumbled:			mjc
Fluid Tumbled:			mjc
ZHE Sample Weight:			
ZHE Fluid Amount:			
ZHE Number:			
Initial pH:	—	—	—
Adjusted pH:	—	—	—
Final pH:			mjc
Fluid Number:	SPLP F#2		mjc
Batch Number:	072		mjc
% Liquid By Weight:			mjc
% Solid By Weight:			mjc
% Other By Weight:	0		mjc
ICP/HG Acid Spike:	A NS	A NS	A NS

Key For Above Spikes: A = Acidified N = Not Acidified NS = Not Spiked S = Spiked

Groups:	Blank ID's:	Spiking Solutions	Comments:
ICP	TB-	ICP ID #: NA	Balance # 108750
HG	TB-	Amt Spiked:	
Pest	TB-	Spiked By:	mjc 06/23/08
Herb	TB-	HG ID #:	
SV	TB-	Amt Spiked:	
VOA	TB-	Spiked By:	

mjc 06/23/08

To Page No. _____

Witnessed & Understood by me,	Date	Invented by: NA	Date
[signature]	6/23/08	Recorded by: [signature]	06/23/08

Batch Worklist

DATA CHEM LABORATORIES, INC.

Batch EIPX/ 1420 **Created** 6/24/2008 14:01 **HBN** 16990

Rule ILM ICP-AES MW1 Prep **Analyst** K. Kuwitzky **Status** NA

Workorder 8171003 **CASE** 37402 **SDG** MH2663 **MODN** 1553.0

Pos	Lab ID	Sample ID		Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date
1	54807	PBW	211.5	211.5		3	PBW		ILMAESW.3P	6120	12/21/2008	6/24/2008
2	54808	LCSW	210.8	210.8		3	LCSW		ILMAESW.3P	6120	12/21/2008	6/24/2008
3	8171003001	MH2663	212.3	212.4		3	SAMPLE	8171003001-A	I54AESW.3P	5936	12/15/2008	6/24/2008
4	8171003002	MH2665	211.3	211.3		3	SAMPLE	8171003002-A	I54AESW.3P	5936	12/15/2008	6/24/2008
5	8171003003	MH2667	212.8	212.4		3	SAMPLE	8171003003-A	I54AESW.3P	5936	12/15/2008	6/24/2008
6	8171003004	MH2669	210.3	210.3		3	SAMPLE	8171003004-A	I54AESW.3P	5936	12/15/2008	6/24/2008
7	8171003005	MH2671	212.3	212.3		3	SAMPLE	8171003005-A	I54AESW.3P	5936	12/15/2008	6/24/2008
8	8171003006	MH26D2	212.9	212.9		3	SAMPLE	8171003006-A	I54AESW.3P	5936	12/15/2008	6/24/2008
9	8171003007	MH25A5	211.1	211.1		3	SAMPLE	8171003007-A	I54AESW.3P	5936	12/15/2008	6/24/2008
10	8171003008	MH2674	213.0	213.1		3	SAMPLE	8171003008-A	I54AESW.3P	5936	12/15/2008	6/24/2008
11	8171003009	MH2676	212.6	212.5		3	SAMPLE	8171003009-A	I54AESW.3P	5936	12/15/2008	6/24/2008
12	8171003010	MH2678	213.3	213.3		3	SAMPLE	8171003010-A	I54AESW.3P	5936	12/15/2008	6/24/2008
13	8171003011	MH2680	212.3	212.3		3	SAMPLE	8171003011-A	I54AESW.3P	5936	12/15/2008	6/24/2008
14	8171003012	MH2682	212.3	212.3		3	SAMPLE	8171003012-A	I54AESW.3P	5936	12/15/2008	6/24/2008
15	8171003013	MH2684	210.5	210.6		3	SAMPLE	8171003013-A	I54AESW.3P	5936	12/15/2008	6/24/2008
16	8171003014	MH2687	213.1	213.2		3	SAMPLE	8171003014-A	I54AESW.3P	5936	12/15/2008	6/24/2008
17	8171003015	MH2689	213.2	213.2		3	SAMPLE	8171003015-A	I54AESW.3P	5936	12/15/2008	6/24/2008
18	8171003016	MH2691	211.6	211.6		3	SAMPLE	8171003016-A	I54AESW.3P	5936	12/15/2008	6/24/2008
19	8171003017	MH2693	211.7	211.6		3	SAMPLE	8171003017-A	I54AESW.3P	5936	12/15/2008	6/24/2008
20	8171003018	MH2695	212.3	212.2		3	SAMPLE	8171003018-A	I54AESW.3P	5936	12/15/2008	6/24/2008
21	8171003019	MH2695S	212.5	212.5		3	MS	8171003019-A	I54AESW.3P	5936	12/15/2008	6/24/2008
22	8171003020	MH2695D	212.0	212.0		3	MD	8171003020-A	I54AESW.3P	5936	12/15/2008	6/24/2008

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DCL INORGANIC SAMPLE PREPARATION NOTE BOOK ISP 350 PAGE 091

GENERAL

Redigestion? (Y/N): N Original Bk/Pg: NA

DCL Set ID	Sample ID / TCLP Write-up Bk/Pg	Analytes	Account
8171003	MH2663, 5, 7, 9, 71, 73, MH2685, MH2696, 8, 89, MH2682, 84, 87, 89, 91, 93, 95	ICP Metals	6201

Prep Group #: EIPX11420

Hood: 21

Micro: MD7753 NA

SDG: MH2663

Case: 37402

Sample Description (Bk/Pg): Water (350/092)

KK 6/24/08

QC INFORMATION (All QC's prepared using same method as samples)

DCL QC ID	Matrix source	Spike source ID (include Bk/Pg)	Pipet ID	Spike Vol
PBW 54807	Method Reagents	NA	NA	NA
LCSW 54808	ICV-1 (120)	IP-PS-08-053 2261/98	Hg-10	4.5mL
MH2695S	MH2695	IP-PS-08-009 (2261/97) and IP-PS-08-008 (2261/96)	QC-2	45.0mL each
MH2695D	↓KK	NA	NA	NA

KK 6/24/08

QC's spiked by: KK Witness: TN

METHOD INFORMATION

Method reagents/Lots ID's: Conc. HNO_3 Baker G11022

Balance ID: 102887

Samples measured using: 50mL cent tubes

Digestion glassware type: microwave vessel

Final volume container type: 50mL cent tube

Amount of sample used: 45mL

Final sample volume: 50mL

Explanations below -- if redigesting, WHY, Modified method? (Y/N) N WHAT/WHY: NA

KK 6/24/08 1500 45mL transfered to microwave vessels. QCs prepared as above. 5mL cons. HNO_3 added to all. Samples capped and weighed. Samples put in microwave and program "EPA CLP WATER" run to completion. Samples removed from microwave and reweighed. Samples transfered to 50mL cent tubes KK 6/25/08 1420

KK 6/25/08

METHOD/DCL SOP USED (Include revision): ILM05.4-MW1 CONTINUED ON PAGE #: 092

Preparer Signature/Date: KK 6/25/08 Reviewer Signature/Date: 6/25/08

Project No. N/A

TITLE DATACHEM LABORATORIES- PRIMARY STANDARDS LOGBOOK

Book No. 2261

From Page No. 95

DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT.
IP-PS-07-140	ICSA	SEE FACING PAGE	EPA / QATS	PART A (1206)	11/08/07	12/12/07	N/A	KE
IP-PS-07-141	SEE FACING PAGE					12/21/07		
IP-PS-07-142						12/21/07		
IP-PS-07-143						01/05/08		
IP-PS-07-144								
IP-PS-07-145								
IP-PS-07-146	ICSAB	SEE FACING PAGE	EPA / QATS	PART B (0203)	11/08/07		N/A	KE
IP-PS-07-147	SEE FACING PAGE					03/19/08		
IP-PS-07-148						05/09/08		
6020 std IP-PS-07-149	Ag, Al, As, Ba, Be, Co, Cd,	20 µg/mL	Inorganic Ventures	Z-MEB194104	12/17/07	12/17/07	01/01/09	KB
6020 Std IP-PS-07-150	Co, Cr3, Cu, Fe, K, Mg, Mn, Na,							
12/17/07 KB 6020 Std IP-PS-07-151	Ni, Pb, Se, Sb, Tl, V, Zn							
KB 12/17/07	Ag / Ba, Cr3, Cu, Zn	50 µg/mL	Inorganic Ventures	A2-CICP20089	12/17/07	12/17/07	01/01/09	KB
	Ni / Co, Pb, Sb / V	25 µg/mL / 20 µg/mL / 30 µg/mL						
	Ag, As, Cd / Be, Se, Tl	10 µg/mL / 5 µg/mL						
ISS IP-PS-07-152	Br, Ho, In, Li, Rh, Sr,	10 µg/mL	Inorganic Ventures	A2-MEB194155	12/17/07	12/07/07	01/01/09	KB
ISS IP-PS-07-153	Tlo, Y							
IP-PS-08-001	Li, Zn, Y, Bi, Se, Ho, Th	10 µg/mL	INORGANIC VENTURES	B2-MEB255072	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-002	In	10 µg/mL	INORGANIC VENTURES	A2-QIN01098	02/05/08	02/05/08	03/01/09	KE
GRD WATER SPK IP-PS-08-003	Fe / Ba, Zn	100 µg/mL / 50 µg/mL	INORGANIC VENTURES	Z-MEB194099	02/05/08	02/05/08	03/01/09	KE
	Co, Cr3, Cu, Mn, Ni, Sb, V	20 µg/mL						
	As, Pb	10 µg/mL						
	Ag, Be, Cd, Se, Tl	5 µg/mL						
IP-PS-08-004	Li, Sr, Th, U	20 µg/mL	INORGANIC VENTURES	A2-MEB248045	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-005	B, Mo, Sn, Ti	20 µg/mL	INORGANIC VENTURES	A2-MEB248044	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-006	Ca, Mg, K, Na / Al, Ba	500 µg/mL / 20 µg/mL	INORGANIC VENTURES	KE 02/14/08 Z-MEB194095	02/13/08	02/14/08	03/01/09	KE
	Fe / Sb, Zn	10 µg/mL / 6 µg/mL						
	Co, V / Ni / Se	5 µg/mL / 4 µg/mL / 3.5						
	Cu, Tl / Mn	2.5 µg/mL / 1.5 µg/mL						
	Ag, As, Cr3, Pb / Be, Cd	1.0 µg/mL / 0.5 µg/mL						
IP-PS-08-007	Ag, Al, As, Ba, Be, Cd,	10 µg/mL	SPEX KB 2/29/08 ~~Inorganic Ventures~~	5-11265	02/28/08	02/29/08	02/28/09	KB
	Co, Cr, Cu, Mn, Ni, Pb,							
	Sb, Se, Tl, V, Zn							
CP-PK-6 IP-PS-08-008	Sb / Cd, Se, Tl	100 µg/mL / 50 µg/mL	INORGANIC VENTURES	Z-MEB194090	03/10/08	03/10/08	03/01/09	KE
1362	As / Pb	40 µg/mL / 20 µg/mL						

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Witnessed & Understood by me, Kristie Bettin — Date 03/28/08

Invented by — Date 03/10/08

Recorded by

Project No. N/A

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK

Book No. 2261

From Page No. 96

DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT
CLP-SPK-1 IP-PS-08-009	Al, Ba / Fe	2000 µg/mL / 1000 µg/mL	INORGANIC VENTURES	2-MER194075	03/10/08	03/10/08	03/01/09	KE
	Co, Mn, Ni, V, Zn / Cu	500 µg/mL / 250 µg/mL						
1261	Cr3 / Ag, Be	200 µg/mL / 50 µg/mL						
IP-PS-08-010	ICSA (SEE FACING PAG)	SEE FACING PAGE	EPA / QATS	ICSA (1206)	03/10/08	03/19/08	N/A	KE
IP-PS-08-011						03/19/08		
IP-PS-08-012								
IP-PS-08-013								
IP-PS-08-014								
IP-PS-08-015						05/21/08		
IP-PS-08-016						05/09/08		
IP-PS-08-017						05/21/08		
IP-PS-08-018	ICSAB	SEE FACING PAGE	EPA / QATS	ICSAB (0203)	03/10/08		N/A	KE
IP-PS-08-019	SEE FACING PAGE							
IP-PS-08-020								
6020 ISS 6/3/08 IP-PS-08-021	Ag, Al, As, Ba, Br, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20 µg/mL	Inorganic Ventures	2-MER194104	03/27/08		04/01/09	KE
6020 ISS 6/3/08 IP-PS-08-022	Bi, Ho, In, Li6, Rh, Sc, Tb, Y	10 µg/mL	Inorganic Ventures	A2-MER194155	03/27/08		04/01/09	KE
6020 ISS 6/3/08 IP-PS-08-023								
6020 ISS 6/3/08 IP-PS-08-024								
IM08023 (1879) IP-PS-08-025	Ag	1000 µg/mL	CPI	07H114	5/1/08	5/1/08	10/28/09	RKA
IM08024 (1883) IP-PS-08-026	Sb	10,000 µg/mL	CPI	07F023	5/1/08		10/28/09	RKA
IM08025 (1885) IP-PS-08-027	Ba	10,000 µg/mL	CPI	07C169	5/1/08		10/28/09	RKA
IP-PS-08-028 IM08026 (1886)	K	10,000 µg/mL	CPI	08C049	5/1/08		10/28/09	RKA
IP-PS-08-029 IM08027 (1887)	W	1000 µg/mL	CPI	07I208	5/1/08		10/28/09	RKA
IP-PS-08-030 IM08028 (1888)	Pt	10,000 µg/mL	CPI	07D260	5/1/08		10/28/09	RKA
IP-PS-08-031 IM08029 (1889)	Na	10,000 µg/mL	CPI	08A030	5/1/08		10/28/09	RKA
IM08030 (1890) IP-PS-08-032	Ti	10,000 µg/mL	CPI	08A002	5/1/08		10/28/09	RKA
IM08031 (1891) IP-PS-08-033	Be	10,000 µg/mL	CPI	07F218	5/1/08		10/28/09	RKA
IM08032 (1892) IP-PS-08-034	Al	10,000 µg/mL	CPI	08C004	5/1/08		10/28/09	RKA
IP-PS-08-035 IM08033 (1893)	Fe	10,000 µg/mL	CPI	08B059	5/1/08		10/28/09	RKA
IP-PS-08-036 IM08034 (1894)	Zr	1,000 µg/mL	CPI	08A083	5/1/08		10/28/09	RKA
IP-PS-08-037 IM08035 (1895)	Ni	10,000 µg/mL	CPI	08A040	5/1/08		10/28/09	RKA
IP-PS-08-038 IM08036 (1896)	Mg	10,000 µg/mL	CPI	08C006	5/1/08		10/28/09	RKA

To Page No. 98

Witnessed & Understood by me, Joanna C. Sanchez

Date 5/5/08

Invented by N/A

Recorded by [signature]

Date 5/5/08

Project No. NA

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK 5/8/08 RKA

Book No. 2261

From Page No. 97 DCL Solution #	ANALYTES	CONCENTRATION	VENDOR	LOT#	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT
IM080377(1897) IP-PS-08-039	As	10,000 µg/mL	CPI	07H102	5/1/08	5/1/08	10/28/09	RKA
IM080381(1870) IP-PS-08-040	Si	10,000 µg/mL	CPI	07D206	5/1/08	5/1/08	10/28/09	RKA
CRI-MS IP-PS-08-041	Ba/Se, V Cr3, Cu, Sb, Zn Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl	10 µg/mL/5 µg/mL 2 µg/mL 1 µg/mL	Inorganic Ventures	A2-MEB194150	05/05/08	05/05/08	06/01/09	KB
CLP-MS-SPK IP-PS-08-042	Al, Ba Co, Mn, Ni, V, Zn Cu/Cr3 Sb/Ag, Be, Cd, Tl As/Pb Se	200 µg/mL 50 µg/mL 25 µg/mL/20 µg/mL 10 µg/mL/5 µg/mL 4 µg/mL/2 µg/mL 1 µg/mL	Inorganic Ventures	A2-MEB194119	05/05/08	05/05/08	06/01/09	KB
IM080389(1899) IP-PS-08-043	Cr	10,000 µg/mL	CPI	07I020	5/6/08	5/6/08	11/2/09	RKA
IM080342(1902) IP-PS-08-044	Bi	10,000 µg/mL	Elements	CS7011437	4/16/08	5/8/08	10/09	RKA
IP-PS-08-045 IP-PS-08-046 IP-PS-08-047 IP-PS-08-048 IP-PS-08-049	ICSA (See facing page)	See facing page	EPA/QATS	ICSA (1206)	04/16/08 04/17/08		NA	GOS GOS 5/8/08
IP-PS-08-050 IP-PS-08-051 IP-PS-08-052	ICSAB (See facing Pg)	See facing page	EPA/QATS	ICSAB (0203)	04/16/08 04/17/08		NA	GOS GOS 5/8/08
IP-PS-08-053 IP-PS-08-054 IP-PS-08-055 IP-PS-08-056 IP-PS-08-057	ICV-1 (See facing Pg)	See facing page	EPA/QATS	ICV-1 (1201)	04/16/08 04/17/08		NA	GOS
IP-PS-08-058	Soil LCSS (See facing page)	See facing page	EPA/QATS	LCS-S (0405)	04/17/08		NA	GOS
IP-PS-08-059	Ba, Be, Bi, Ce, Co, In, Li, Ni, Pb, U	10 µg/mL	Inorganic Ventures	B2-MEB265024	05/08/08	05/13/08	06/01/09	KB
ICP-MS CLP ICSA IP-PS-08-060	See p.91 facing page	See p.91 facing page	EPA/QATS	Part A ICS-MS (0803)	04/17/08		NA	KB
IP-PS-08-061	See p.91 facing page	See p.91 facing page	EPA/QATS	Part B ICS-MS (0803)	04/17/08		NA	KB
IP-PS-08-062	Pb	1,000 µg/mL	CPI	08D051	05/20/08	06/04/08	11/16/09	GOS
(6020 Cal) IP-PS-08-063	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20 µg/mL	Inorganic Ventures	Z-MEB194104	06/17/08	06/18/08	07/01/09	KB

To Page No. 99

Witnessed & Understood by me,	Date	Invented by	Date 06/18/08
		Recorded by Beatrice Betan	

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET
PART A (1206) WITH PART B (0203) FOR ICP-AES

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: ILM05.4 Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis. Preparation and analysis must be performed according to the following instructions:

Part A (1206), Interferents: Pipet 10 mL of the Part A solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this solution, Soln A, by ICP-AES.

Part B (0203), Analytes, mixed with Part A (1206), 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 HNO_3. Analyze this solution, Soln. AB, by ICP-AES.

NOTE: THIS ICS SET IS FOR USE WITH ILM05.4 AND REVISIONS ONLY, NOT ILM04.x.

gcs 5/12/08

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book 2261 gcs 5/12/08

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES PART A (1206), AND PART A (1206) MIXED WITH PART B (0203)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	244100	241100
Sb	(0)	589
As	(0)	101
Ba	(2)	495
Be	(0)	475
Cd	(0)	940
Ca	234900	231100
Cr	43	511
Co	(4)	461
Cu	(23)	548
Fe	95600	94800
Pb	10	61
Mg	247500	251100
Mn	19	502
Ni	(21)	984
Se	(0)	53
Ag	(0)	206
Tl	(0)	103
V	(0)	494
Zn	(28)	1028

( ) 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.

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

Element	ICV-1 (1201) Concentration (µg/L) (after 10 fold dilution)	Concentration (µg/L) (after 50 fold dilution)
Al	2462	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	995	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

gcs 5/12/08

QATS INORGANIC REFERENCE MATERIAL
SOLID LABORATORY CONTROL SAMPLE
LCS-S (0405)

TABLE 1. "CERTIFIED VALUE", CONCENTRATIONS AND CONTROL LIMITS FOR THE ELEMENTS IN THE SOLID LABORATORY CONTROL SAMPLE, LCS-S (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	28200	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	218
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.

gcs 5/12/08

Batch Worklist

DATA CHEM LABORATORIES, INC.

Batch EICP/ 1396 **Created** 6/27/2008 17:37 **HBN** 17178

Rule ILM ICP-AES Analysis **Analyst** J. Sanchez **Status** WP

Workorder 8171003 **CASE** 37402 **SDG** MH2663 **MODN** 1553.0

Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date
1	55402	S0			3	STB		ILMAESW..3	5967	12/24/2008	6/27/2008
	*i08154										
2	55403	S1500			3	STD		ILMAESW..3	5967	12/24/2008	6/27/2008
3	55404	S10000			3	STD		ILMAESW..3	5967	12/24/2008	6/27/2008
4	55405	S50000			3	STD		ILMAESW..3	5967	12/24/2008	6/27/2008
5	55406	ICV			3	ICV		ILMAESW..3	5967	12/24/2008	6/27/2008
6	55407	ICB			3	ICB		ILMAESW..3	5967	12/24/2008	6/27/2008
7	55408	CRII			3	CRI		ILMAESW..3	5967	12/24/2008	6/27/2008
8	55409	ICSAI			3	ICSA		ILMAESW..3	5967	12/24/2008	6/27/2008
9	55410	ICSABI			3	ICSAB		ILMAESW..3	5967	12/24/2008	6/27/2008
10	55411	CCV			3	CCV		ILMAESW..3	5967	12/24/2008	6/27/2008
11	55412	CCB			3	CCB		ILMAESW..3	5967	12/24/2008	6/27/2008
12	54807	PBW	45 mL	50 mL	3	PBW		ILMAESW..3	6120	12/21/2008	6/24/2008
13	54808	LCSW	45 mL	50 mL	3	LCSW		ILMAESW..3	6120	12/21/2008	6/24/2008
14	8171003018	MH2695	45 mL	50 mL	3	SAMPLE	8171003018-A	I54AESS..4	5936	12/15/2008	7/7/2008
15	8171003019	MH2695S	45 mL	50 mL	3	MS	8171003019-A	I54AESS..4	5936	12/15/2008	7/7/2008
16	8171003020	MH2695D	45 mL	50 mL	3	MD	8171003020-A	I54AESS..4	5936	12/15/2008	7/7/2008
17	55413	MH2695L			3	SD		ILMAESW..3	5967	12/15/2008	7/7/2008
18	8171003001	MH2663	45 mL	50 mL	3	SAMPLE	8171003001-A	I54AESS..4	5936	12/15/2008	7/7/2008
19	8171003002	MH2665	45 mL	50 mL	3	SAMPLE	8171003002-A	I54AESS..4	5936	12/15/2008	7/7/2008
20	8171003003	MH2667	45 mL	50 mL	3	SAMPLE	8171003003-A	I54AESS..4	5936	12/15/2008	7/7/2008
21	8171003004	MH2669	45 mL	50 mL	3	SAMPLE	8171003004-A	I54AESS..4	5936	12/15/2008	7/7/2008
22	55414	CCV2			3	CCV		ILMAESW..3	5967	12/24/2008	6/27/2008
23	55415	CCB2			3	CCB		ILMAESW..3	5967	12/24/2008	6/27/2008
24	8171003005	MH2671	45 mL	50 mL	3	SAMPLE	8171003005-A	I54AESS..4	5936	12/15/2008	7/7/2008
25	8171003006	MH26D2	45 mL	50 mL	3	SAMPLE	8171003006-A	I54AESS..4	5936	12/15/2008	7/7/2008
26	8171003007	MH25A5	45 mL	50 mL	3	SAMPLE	8171003007-A	I54AESS..4	5936	12/15/2008	7/7/2008
27	8171003008	MH2674	45 mL	50 mL	3	SAMPLE	8171003008-A	I54AESS..4	5936	12/15/2008	7/7/2008
28	8171003009	MH2676	45 mL	50 mL	3	SAMPLE	8171003009-A	I54AESS..4	5936	12/15/2008	7/7/2008

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Pos	Lab ID	Sample ID	Prep Initial	Prep Final	Mx	Type	Container	Procedure	Mgr	Expire Date	Due Date
29	8171003010	MH2678	45 mL	50 mL	3	SAMPLE	8171003010-A	I54AESS..4	5936	12/15/2008	7/7/2008
30	8171003011	MH2680	45 mL	50 mL	3	SAMPLE	8171003011-A	I54AESS..4	5936	12/15/2008	7/7/2008
31	55416	CRIF			3	CRI		ILMAESW..3	5967	12/24/2008	6/27/2008
32	55417	ICSAF			3	ICSA		ILMAESW..3	5967	12/24/2008	6/27/2008
33	55418	ICSABF			3	ICSAB		ILMAESW..3	5967	12/24/2008	6/27/2008
34	55419	CCV3			3	CCV		ILMAESW..3	5967	12/24/2008	6/27/2008
35	55420	CCB3			3	CCB		ILMAESW..3	5967	12/24/2008	6/27/2008
36	8171003012	MH2682	45 mL	50 mL	3	SAMPLE	8171003012-A	I54AESS..4	5936	12/15/2008	7/7/2008
37	8171003013	MH2684	45 mL	50 mL	3	SAMPLE	8171003013-A	I54AESS..4	5936	12/15/2008	7/7/2008
38	8171003014	MH2687	45 mL	50 mL	3	SAMPLE	8171003014-A	I54AESS..4	5936	12/15/2008	7/7/2008
39	8171003015	MH2689	45 mL	50 mL	3	SAMPLE	8171003015-A	I54AESS..4	5936	12/15/2008	7/7/2008
40	8171003016	MH2691	45 mL	50 mL	3	SAMPLE	8171003016-A	I54AESS..4	5936	12/15/2008	7/7/2008
41	8171003017	MH2693	45 mL	50 mL	3	SAMPLE	8171003017-A	I54AESS..4	5936	12/15/2008	7/7/2008
42	55421	CRIF2			3	CRI		ILMAESW..3	5967	12/24/2008	6/27/2008
43	55422	ICSAF2			3	ICSA		ILMAESW..3	5967	12/24/2008	6/27/2008
44	55423	ICSABF2			3	ICSAB		ILMAESW..3	5967	12/24/2008	6/27/2008
45	55424	CCV4			3	CCV		ILMAESW..3	5967	12/24/2008	6/27/2008
46	55425	CCB4			3	CCB		ILMAESW..3	5967	12/24/2008	6/27/2008

Project No. NA

TITLE DataChem Laboratories Analyst write up Logbook

Book No. 4728

From Page No. X

File #: i08154

WorkOrder#	Sample #'s	Analytes/Matrix	Prep Write-up(Bk./Pg.)	Prep Date/Time	HBN #	Account #
8171003	MH2663, 65, 67, 69, 71, D2, MH25A5,	#1/water (SPLP extract)	ISP 350/091	6/24/2008 15:00:00 PM	16990	8201
	MH2674, 76, 78, 80, 82, 84, 87, 89, 91, 93, 95					

#1 = Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Tl, V, Zn

MW1 Conversion Factor: (µg/L from instrument)(Dilution Factor)(0.05 L/0.045 L) = 1.11 µg/L

CALIBRATION AND QC STANDARDS UTILIZED:

	ID #	Book/Page
S0/ICB/CCB	ICP-08-084	4535/07
S1500	EI-SS-08-072	4676/72
S10000	EI-SS-08-075	4676/75
S50000	EI-SS-08-113	4721/13
ICV	EI-SS-08-123	4721/23
CRI	EI-SS-08-112	4721/12
ICSA	EI-SS-08-137	4721/37
ICSAB	EI-SS-08-125	4721/25
CCV	EI-SS-08-122	4721/22
Rinse	ICP-08-090, -092	4535/07
Internal Standard	ICP-08-091	4535/07

MOD: 1553.0
SDG # MH2663
CASE # 37402
Prep Method: MW1
Analysis Method: ILM05.4
Analysis Date: 06/27/08
Instrument ID: ICP07

ANALYSIS PARAMETERS:
RF Power = 1200 W
Nebulizer Flow = 0.60 L/min
Auxiliary Gas = 0.5 L/min
Pump Rate = 50 rpm

GCS 6/27/08

Dilutions: None were analyzed.

Comments: No Problems during analysis.
A Serial Dilution was done by combining 2 mL of MH2695 with 8 mL of ICP-08-084 (4535/07) in a 14 mL Falcon tube.
The SPLP extraction was done on 06/23/08-06/24/08. The write-up is in 4648 page 51-53.

GCS 6/27/08

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Witnessed & Understood by me,	Date	Invented by: NA	Date
John Kerekowski	6/29/08	Recorded by: Joanna C. Sandoval	6/27/08

Project No. NA

TITLE DataChem Laboratories - ICP07 Analysis Run Logbook Book No. 4527

From Page No. 13

Date	Time on	Time off	total time	Method	Matrix	Workorder(s)	SDG	Low IS / High IS	# of Samples	Run #	Initials
06/19/08	9:40	14:55	315 min.	ILMO 5.4	soil	8164035, 8164038	MY43D0	2069 / 395410	20	i08146	gcs
06/20/08	11:42	15:53	251 min.	ILMO 5.4	Soil	8164034	MY43A5	1966 / 384590	20	i08147	gcs
06/23/08	8:54	14:24	330 min.	ILMO 5.4	gcs blank soil	8164036	MY43B2	2027 / 392950	20	i08148	gcs
06/25/08	4:29	9:58	329 min.	ILMO 5.4	soil	8164036	MY43B2	2088 / 395710	20	i08149	gcs
06/25/08	10:04	13:25	201 min.	ILMO 5.4	water	8172026	MC00F4	195 / 375280	13	i08150	gcs
06/26/08	7:58	13:32	334 min.	ILMO 5.4	soil	8164037	MY43C7	2062 / 381710	20	i08151	gcs
06/27/08	7:48	9:50	122 min.	ILMO 5.4	soil	8164037	MY43C7	2186 / 396770	8	i08152	gcs
06/27/08	9:56	13:27	211 min.	ILMO 5.4	water	8171040	MC00B6	2084 / 386430	14	i08153	gcs
06/27/08	13:33	17:19	226 min.	ILMO 5.4	water	8171003 (SPLP)	MH2663	2029 / 388890	18	i08154	gcs

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Project No. NA

TITLE DataChem Laboratories - ICP Solutions/Reagents Logbook

Book No. 4535

From Page No. 6

Date	ICP Solution #	Solution Type	Primary Solution ID (Book/Page)	Recipe Page	Acid Lots	Expiration Date	Initials	Comments
04/30/08	ICP-08-058	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G07057 HCl-4107090	10/01/08	gcs	NA
04/30/08	ICP-08-059	Rinse 5%/5%	NA	1	HNO3-G07057 HCl-4107090	10/30/08	gcs	NA
05/07/08	ICP-08-060	Rinse 5%/5%	NA	1	HNO3-G07057 HCl-4108010	11/07/08	gcs	NA
05/12/08	ICP-08-061	Rinse 5%/5%	NA	1	HNO3-G07057 HCl-4108010	11/12/08	gcs	NA
05/12/08	ICP-08-062	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G07057 HCl-4108010	10/01/08	gcs	NA
05/14/08	ICP-08-063	Rinse 5%/5%	NA	1	HNO3-G07057 HCl-4108010	11/14/08	gcs	NA
05/14/08	ICP-08-064	5%/5%	NA	1	HNO3-G07057 HCl-4108010	11/14/08	gcs	1L for SO, ICB, CCB, Diluent
05/21/08	ICP-08-065	Rinse 5%/5%	NA	1	HNO3-G07057 HCl-4108010	11/21/08	gcs	NA
05/21/08	ICP-08-066	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G07057 HCl-4108010	10/01/08	gcs	only 1L made
05/22/08	ICP-08-067	5%/5%	NA	1	HNO3-G04026 HCl-4107090	11/22/08	gcs	1L for SO, ICB, CCB Diluent
05/22/08	ICP-08-068	Rinse 5%/5%	NA	1	HNO3-G04026 HCl-4107090	11/22/08	gcs	NA
05/23/08	ICP-08-069	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G04026 HCl-4107090	10/01/08	gcs	NA
05/27/08	ICP-08-070	Rinse 5%/5%	NA	1	HNO3-G04026 HCl-4108010	11/27/08	gcs	NA
05/28/08	ICP-08-071	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G04026 HCl-4108010	10/01/08	gcs	only 1L made
05/28/08	ICP-08-072	Rinse 5%/5%	NA	1	HNO3-G04026 HCl-4108010	11/28/08	gcs	NA
05/30/08	ICP-08-073	Rinse 5%/5%	NA	1	HNO3-G04026 HCl-4108010	11/30/08	gcs	NA
05/30/08	ICP-08-074	5%/5%	NA	1	HNO3-G04026 HCl-4108010	gcs 6/26/08 11/30/08	gcs	1L for SO, ICB, CCB, Diluent
05/30/08	ICP-08-075	5% 5%	NA	1	HNO3-G04026 HCL-4108010	11/30/08	JK	2L for SO, ICB, CCB Diluent
05/30/08	ICP-08-076	Sc IS.	IP-PS-07-125 (2261/95)	1	↓	10/01/ 11/30/08 gcs 6/26/08	JK	NA
05/30/08	ICP-08-077	RINSE 5% 5%	NA	1	↓	11/30/08	JK	6L of RINSE MADE
06/02/08	ICP-08-078	Sc IS	IP-PS-07-125 (2261/95)	1	HNO3-G11022 HCl-4108010 gcs 6/26/08	10/01/08	gcs	NA
06/03/08	ICP-08-079	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/03/08	gcs	NA
06/05/08	ICP-08-080	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/05/08	gcs	NA
06/05/08 gcs 6/26/08	ICP-08-081	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G11022 HCl-4108010	10/01/08	gcs	NA
06/10/08	ICP-08-082	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/10/08	gcs	NA
06/11/08	ICP-08-083	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/11/08	gcs	2L made
06/11/08	ICP-08-084	5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/11/08	KK	1L for ICB, SO, CCB, Diluent
06/17/08	ICP-08-085	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G02058 HCl-4108010	10/01/08	gcs	1L made
06/18/08	ICP-08-086	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/18/08	JC	2L made
06/18/08	ICP-08-087	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G11022 HCl-4108010	10/01/08	JK	2L made
06/20/08	ICP-08-088	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/20/08	JC	NA
06/20/08	ICP-08-089	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G11022 HCl-4108010	10/01/08	gcs	NA
06/25/08	ICP-08-090	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/25/08	gcs	NA
06/26/08	ICP-08-091	ScIS	IP-PS-07-125 (2261/95)	1	HNO3-G11022 HCl-4108010	10/01/08	gcs	NA
06/26/08	ICP-08-092	Rinse 5%/5%	NA	1	HNO3-G11022 HCl-4108010	12/26/08	gcs	NA

To Page No. 8

Witnessed & Understood by me, Penny S. Foote

Date 26-Jun-2008

Invented by: NA

Recorded by: Joanna C. Sandberg

Date 6/26/08

Project No. N/A

TITLE DATACHEM LABORATORIES - ICP SOLUTION/REAGENTS LOGBOOK

Book No. 4535

From Page No. X

RECIPES

7.5% HNO_3 = TRANSFERRED SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 150ML OF HNO_3 TO THE FLASK. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O STOPPER FLASK, SHAKE TO MIX. USE FOR SO, ICB, CCB AND DILUTANT.

Sc IS = ADDED SOME WATER TO A 2L FLASK. ADD ~~75~~ 100 ML OF HNO_3 AND ~~50~~ 100 ML OF HCl. ADD 1.2mL OF 10,000 ug/mL Sc STAND. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

7.5%/1% RINSE = ADD SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 150mL OF HNO_3 + 20mL OF HCl. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

2ppm Zn. = ADD SOME ASTM TYPE II H_2O TO A 200mL VOLUMETERIC FLASK. ADD 2mL OF HNO_3. SPIKE IN 40ml OF 10,000 ug/mL Zn. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER AND SHAKE WELL. USE FOR TUBE ALIGNMENT.

5%/5% RINSE = ADD SOME ASTM TYPE II H_2O TO A 2L FLASK. ADD 100mL OF HNO_3 AND 100mL OF HCl TO THE FLASK. BRING TO VOLUME WITH MORE ASTM TYPE II H_2O. STOPPER FLASK AND SHAKE WELL.

Thermo Torch Alignment Solution = Add some ASTM Type II H_2O to a 250 mL flask. Add 2.5 mL of HNO_3, 7.5 mL of MeOH and 50 mL of 10,000 ug/mL Zn. Bring to volume with ASTM Type II H_2O, Stopper and shake to mix. 0.03 mL/L MeOH, 2 mg/L Zn in 1% HNO_3.

To Page No. ____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Project No. N/A

TITLE Data Chem Laboratories - Secondary Standards Logbook

Book No. 4676

From Page No. X

ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-072	ILM05.4 Standard 1	S1500

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
As	IP-PS-07-077 (2261/93)	1,000 µg/mL	1.5 mL	1,500 µg/L
Be	IP-PS-07-036 (2261/91)	10,000 µg/mL	0.15 mL	1,500 µg/L
Cd	IP-PS-07-078 (2261/93)	1,000 µg/mL	1.5 mL	1,500 µg/L
Pb	IP-PS-07-079 (2261/93)	1,000 µg/mL	1.5 mL	1,500 µg/L
Se	IP-PS-07-080 (2261/93)	1,000 µg/mL	1.5 mL	1,500 µg/L
Ag	IP-PS-07-052 (2261/92)	1,000 µg/mL	1.5 mL	1,500 µg/L
Tl	IP-PS-07-081 (2261/93)	1,000 µg/mL	1.5 mL	1,500 µg/L
			FINAL VOL.:	1000 mL

MADE TO BE USED: As is

Date Made: 04/08/08

Expiration date: 09/30/08

Date verified: 04/08/08

Verified by: [illegible]

Comments: N/A

Verification data found in Run#: i08097

Verification instrument: ICP07

Acid used - Lot#: 50 mL HNO_3 - E50032 JT Baker

50 mL HCl - 4107090 Fisher

Source: CPI

PIPETTE #4095124(0.15 mL), PIPETTE #Z55088C (1.5 mL) AND A 1 L VOLUMETRIC FLASK WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

LEGEND: PS=Primary Solution, SS=Secondary Solution,

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

[illegible] 04/08/08

[illegible] 04/08/08

To Page No. X

Witnessed & Understood by me, [signature] Date 04/08/08

Invented by:

Recorded by [signature] Date 04/08/08

Project No. N/A

TITLE Pancheron Laboratories - Secondary Standards Logbook

Book No. 4676

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ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-075	ILM05.4 Standard 2	S10000

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Sb	IP-PS-07-040 (2261/92)	10,000 µg/mL	1.0 mL	10,000 µg/L
Ba	IP-PS-07-035 (2261/91)	10,000 µg/mL	1.0 mL	10,000 µg/L
Cr	IP-PS-07-037 (2261/92)	10,000 µg/mL	1.0 mL	10,000 µg/L
Co	IP-PS-07-058 (2261/92)	10,000 µg/mL	1.0 mL	10,000 µg/L
Cu	IP-PS-07-059 (2261/92)	10,000 µg/mL	1.0 mL	10,000 µg/L
Mn	IP-PS-07-064 (2261/93)	10,000 µg/mL	1.0 mL	10,000 µg/L
Mo	IP-PS-07-065 (2261/93)	10,000 µg/mL	1.0 mL	10,000 µg/L
Ni	IP-PS-07-038 (2261/92)	10,000 µg/mL	1.0 mL	10,000 µg/L
Ti	IP-PS-07-042 (2261/92)	10,000 µg/mL	1.0 mL	10,000 µg/L
V	IP-PS-07-074 (2261/93)	5,000 µg/mL	2.0 mL	10,000 µg/L
Zn	IP-PS-07-076 (2261/93)	10,000 µg/mL	1.0 mL	10,000 µg/L
			FINAL VOL.:	1000 mL

MADE TO BE USED: As is

Date Made: 04/10/08

Expiration date: 09/30/08

Date verified: N/A

Verified by: N/A

Comments: N/A

Verification data found in Run#: N/A

Verification instrument: ICP07

Acid used - Lot#: 50 mL HNO_3 - G07075 JT Baker
50 mL HCl - 4107090 Fisher

Source: CPI

PIPETTE #PL-214(1.0 mL), PIPETTE #Z55088C (2.0 mL) AND A 1 L VOLUMETRIC FLASK WERE USED TO MAKE THIS SOLUTION.
VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.
LEGEND: PS=Primary Solution, SS=Secondary Solution,
CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

JE 04/21/08

JE 04/21/08

To Page No. X

Witnessed & Understood by me, Kristie Bitter

Date 04/23/08

Invented by:

Recorded by:

Date 04/21/08

Project No. NA

TITLE DataChem Laboratories Secondary Standard Logbook Book No. 4721

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ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-113	ILM05.4 STD 3	S50000

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-053 (2261/92)	10,000 µg/mL	5.0 mL	50,000 µg/L
Ca	IP-PS-07-055 (2261/92)	10,000 µg/mL	5.0 mL	50,000 µg/L
Fe	IP-PS-07-060 (2261/92)	10,000 µg/mL	5.0 mL	50,000 µg/L
Mg	IP-PS-07-063 (2261/92)	10,000 µg/mL	5.0 mL	50,000 µg/L
K	IP-PS-07-061 (2261/92)	10,000 µg/mL	5.0 mL	50,000 µg/L
Na	IP-PS-07-066 (2261/93)	10,000 µg/mL	5.0 mL	50,000 µg/L
			FINAL VOL.:	1000 mL

JCS 5/30/08

MADE TO BE USED: As is

Date Made: 05/30/08

Expiration date: 11/30/08

Date verified: 05/30/08

Verified by: JCS

Comments:

Verification data found in Run #: i08130

Verification instrument: ICP07

Acid used - Lot#: 50 mL HNO_3 - G04026 JT Baker
50 mL HCl - 4108010 Fisher

Source: CPI

5 mLCLASS A PIPETTES AND A 1L VOLUMETRIC FLASK WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

LEGEND: PS=Primary Solution, SS=Secondary Solution,

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

JCS 5/30/08

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Witnessed & Understood by me	Date	Invented by: NA	Date
[signature]	05/30/08	Recorded by: Joanna C. Sanchez	5/30/08

Project No. NA

TITLE DataChem Laboratories Secondary Standard Logbook Book No. 4721

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ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-123	ILM05.4 ICV	ICV

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-022 (2261/91)	24820 µg/L	50 mL	2482 µg/L
Sb	IP-PS-07-022 (2261/91)	9920 µg/L	50 mL	992 µg/L
As	IP-PS-07-022 (2261/91)	9960 µg/L	50 mL	996 µg/L
Ba	IP-PS-07-022 (2261/91)	5020 µg/L	50 mL	502 µg/L
Be	IP-PS-07-022 (2261/91)	4930 µg/L	50 mL	493 µg/L
Cd	IP-PS-07-022 (2261/91)	494 µg/L	50 mL	494 µg/L
Ca	IP-PS-07-022 (2261/91)	101800 µg/L	50 mL	10180 µg/L
Cr	IP-PS-07-022 (2261/91)	4900 µg/L	50 mL	490 µg/L
Co	IP-PS-07-022 (2261/91)	4960 µg/L	50 mL	496 µg/L
Cu	IP-PS-07-022 (2261/91)	4900 µg/L	50 mL	490 µg/L
Fe	IP-PS-07-022 (2261/91)	51070 µg/L	50 mL	5107 µg/L
Pb	IP-PS-07-022 (2261/91)	9960 µg/L	50 mL	996 µg/L
Mg	IP-PS-07-022 (2261/91)	60030 µg/L	50 mL	6003 µg/L
Mn	IP-PS-07-022 (2261/91)	4950 µg/L	50 mL	495 µg/L
Ni	IP-PS-07-022 (2261/91)	4920 µg/L	50 mL	492 µg/L
K	IP-PS-07-022 (2261/91)	100080 µg/L	50 mL	10008 µg/L
Se	IP-PS-07-022 (2261/91)	10050 µg/L	50 mL	1005 µg/L
Ag	IP-PS-07-022 (2261/91)	4950 µg/L	50 mL	495 µg/L
Na	IP-PS-07-022 (2261/91)	100390 µg/L	50 mL	10039 µg/L
Tl	IP-PS-07-022 (2261/91)	10270 µg/L	50 mL	1027 µg/L
V	IP-PS-07-022 (2261/91)	5010 µg/L	50 mL	501 µg/L
Zn	IP-PS-07-022 (2261/91)	10000 µg/L	50 mL	1000 µg/L
			FINAL VOL.:	500 mL

JCS 6/4/08

MADE TO BE USED: As is

Date Made: 6/4/2008 by KK

Expiration date: 12/04/08

Date verified: 06/04/08

Verified by: JCS

Comments: none.

Solution Replaces: N/A

Verification data found in Run#: i08136

Verification instrument: ICP07

Acid used - Lot#: 25 mL HNO_3 - G11022 Baker

25 mL HCl - 4108010 Fisher

Source: ICV-1 (1201)

A 50 mL CLASS A PIPETTE AND A 500 mL VOLUMETRIC FLASKS WERE USED TO MAKE THIS SOLUTION.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

LEGEND: PS=Primary Solution, SS=Secondary Solution,

*CALCULATION: ((FINAL VOL.) * (FINAL VOL. CONC.)) / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED*

JCS 6/4/08

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Witnessed & Understood by me, Date 06/05/08

Invented by: NA

Recorded by: Joanna C. Sandoval Date 6/4/08

Project No. NA

TITLE DataChem Laboratories Secondary Standards Logbook Book No. 4721

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ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-112	ILM05.4 CRI	ILM05.4 CRI

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-08-006 (2261/96)	20 µg/mL	10 mL	200 µg/L
Sb	IP-PS-08-006 (2261/96)	6 µg/mL	10 mL	60 µg/L
As	IP-PS-08-006 (2261/96)	1 µg/mL	10 mL	10 µg/L
Ba	IP-PS-08-006 (2261/96)	20 µg/mL	10 mL	200 µg/L
Be	IP-PS-08-006 (2261/96)	0.5 µg/mL	10 mL	5 µg/L
Cd	IP-PS-08-006 (2261/96)	0.5 µg/mL	10 mL	5 µg/L
Ca	IP-PS-08-006 (2261/96)	500 µg/mL	10 mL	5000 µg/L
Cr	IP-PS-08-006 (2261/96)	1 µg/mL	10 mL	10 µg/L
Co	IP-PS-08-006 (2261/96)	5 µg/mL	10 mL	50 µg/L
Cu	IP-PS-08-006 (2261/96)	2.5 µg/mL	10 mL	25 µg/L
Fe	IP-PS-08-006 (2261/96)	10 µg/mL	10 mL	100 µg/L
Pb	IP-PS-08-006 (2261/96)	1 µg/mL	10 mL	10 µg/L
Mg	IP-PS-08-006 (2261/96)	500 µg/mL	10 mL	5000 µg/L
Mn	IP-PS-08-006 (2261/96)	1.5 µg/mL	10 mL	15 µg/L
Ni	IP-PS-08-006 (2261/96)	4 µg/mL	10 mL	40 µg/L
K	IP-PS-08-006 (2261/96)	500 µg/mL	10 mL	5000 µg/L
Se	IP-PS-08-006 (2261/96)	3.5 µg/mL	10 mL	35 µg/L
Ag	IP-PS-08-006 (2261/96)	1 µg/mL	10 mL	10 µg/L
Na	IP-PS-08-006 (2261/96)	500 µg/mL	10 mL	5000 µg/L
Tl	IP-PS-08-006 (2261/96)	2.5 µg/mL	10 mL	25 µg/L
V	IP-PS-08-006 (2261/96)	5 µg/mL	10 mL	50 µg/L
Zn	IP-PS-08-006 (2261/96)	6 µg/mL	10 mL	60 µg/L
			FINAL VOL.:	1000 mL

MADE TO BE USED: As is

Date Made: 05/28/08

Expiration date: 11/28/08

Date verified: 06/29/08

Verified by: gcs

Comments: None.

Verification data found in Run#: i08128

Verification instrument: **ICP07**

Acid used - Lot#: 50 mL HNO_3 - G04026 Baker

50 mL HCl - 4108010 Fisher

Source: Inorganic Ventures

A 10 mL Glass Pipette and a CLASS A 1000 mL Volumeteric Flask were used to make this solution.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

LEGEND: PS=Primary Solution, SS=Secondary Solution,

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

gcs 5/29/08

gcs 5/29/08

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Witnessed & Understood by me, Date 05/29/08

Invented by: NA

Recorded by Joanna C. Sandoval

Date 5/29/08

Project No. NA

TITLE Data Chem Laboratories Secondary Standard Logbook Book No. 4721

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ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-137	ILM05.4 ICSA	ICSA

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-08-014 (2261/97) and	2441 µg/mL	100 mL	244100 µg/L
Ba	IP-PS-08-047 (2261/98)	20 µg/L		(2 µg/L)
Ca		2349 µg/mL		234900 µg/L
Cr		430 µg/L		43 µg/L
Co		40 µg/L		(4 µg/L)
Cu		230 µg/L		(23 µg/L)
Fe		956 µg/mL		95600 µg/L
Pb		10 µg/L		10 µg/L
Mg		2475 µg/mL		247500 µg/L
Mn		190 µg/L		19 µg/L
Ni		210 µg/L		(21 µg/L)
Zn		280 µg/L		(28 µg/L)
			FINAL VOL.:	1000 mL

MADE TO BE USED: As is

Date Made: 06/20/08
Expiration date: 12/20/08
Date verified: 06/20/08
Verified by: JCS
Comments: NA

Verification data found in RUN#: i08147
Verification instrument: ICP07
Acid used - Lot#: 50 mL HNO_3 - G11022 Baker
50 mL HCl - 4108010 Fisher
Source: Part A (1206)

CLASS A 100 mL Pipette and a 1000 mL Volumeteric Flask were used to make this solution.
VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.
LEGEND: PS=Primary Solution, SS=Secondary Solution,
CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED
( ) indicates analytes values that are less than the CRQL and the value is to be used as a set point for the +/- times the CRQL acceptance criteria calculations.

JCS 6/20/08

JCS 6/20/08

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Witnessed & Understood by me, Christopher R Hansen — Date 6/20/2008

Invented by: NA — Date

Recorded by: Joanna C. Sanchez 6/20/08

Project No. NA

TITLE DataChem Laboratories Secondary Standards Logbook

Book No. 4721

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ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-125	ILM05.4 ICSAB	ICSAB

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-08-046, -047 (2261/98)Part A	N/A	100 mL	241100 µg/L
Sb	IP-PS-08-020, -018 (2261/97)Part B		100 mL	589 µg/L
As	ICS Part A and ICS Part B			101 µg/L
Ba	solutions combined			495 µg/L
Be				475 µg/L
Cd				940 µg/L
Ca				231100 µg/L
Cr				511 µg/L
Co				461 µg/L
Cu				548 µg/L
Fe				94800 µg/L
Pb				61 µg/L
Mg				251100 µg/L
Mn				502 µg/L
Ni				984 µg/L
Se				53 µg/L
Ag				206 µg/L
Tl				103 µg/L
V				494 µg/L
Zn				1028 µg/L

FINAL VOL.: 1000 mL

MADE TO BE USED: As is

Date Made: 6/10/2008 by KK

Expiration date: 12/10/08

Date verified:

Verified by:

Comments: N/A

Verification data found in RUN#:

Verification instrument: ICP07

Acid used - Lot#: 50 mL HNO_3 - G11022 JT Baker

50 mL HCl - 4108010 Fisher

Source: Part A (1206) + Part B (0203)

CLASS A 50 mL Pipettes and a 1000 mL Volumeteric Flask were used to make this solution.

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

LEGEND: PS=Primary Solution, SS=Secondary Solution,

CALCULATION: {(FINAL VOL.) * (FINAL VOL. CONC.)} / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

GCS 6/10/08

GCS 6/10/08

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Witnessed & Understood by me, [signature] Date 06/11/08

Invented by: NA

Recorded by: Joanna C. Sanchez Date 6/10/08

Project No. NA

TITLE DataChem Laboratories Secondary Standard Logbook Book No. 4721

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ICP-AES Secondary Standard Solution Write-up

SOLUTION ID:	AKA:	USED FOR:
EI-SS-08-122	ILM05.4 CCV	CCV

This format is used to make a secondary solution from a raw chemical or purchased solution only.

ANALYTES	PRIMARY ID# (INCLUDING BOOK/PG.)	PRIMARY CONC.	VOLUME OF PRIMARY	FINAL CONC.
Al	IP-PS-07-053 (2261/92)	10,000 µg/mL	5 mL	25,000 µg/L
Sb	IP-PS-08-026 (2261/97)	10,000 µg/mL	1.0 mL	5,000 µg/L
As	IP-PS-07-077 (2261/93)	1,000 µg/mL	1.5 mL	750 µg/L
Ba	IP-PS-08-027 (2261/97)	10,000 µg/mL	1.0 mL	5,000 µg/L
Be	IP-PS-08-033 (2261/97)	10,000 µg/mL	0.15 mL	750 µg/L
Cd	IP-PS-07-078 (2261/93)	1,000 µg/mL	1.5 mL	750 µg/L
Ca	IP-PS-07-055 (2261/92)	10,000 µg/mL	5 mL	25,000 µg/L
Cr	IP-PS-08-043 (2261/98)	10,000 µg/mL	1.0 mL	5,000 µg/L
Co	IP-PS-07-058 (2261/92)	10,000 µg/mL	1.0 mL	5,000 µg/L
Cu	IP-PS-07-059 (2261/92)	10,000 µg/mL	1.0 mL	5,000 µg/L
Fe	IP-PS-07-060 (2261/92)	10,000 µg/mL	5 mL	25,000 µg/L
Pb	IP-PS-08-062 (2261/98)	1,000 µg/mL	1.5 mL	750 µg/L
Mg	IP-PS-07-063 (2261/92)	10,000 µg/mL	5 mL	25,000 µg/L
Mn	IP-PS-07-064 (2261/93)	10,000 µg/mL	1.0 mL	5,000 µg/L
Ni	IP-PS-08-037 (2261/97)	10,000 µg/mL	1.0 mL	5,000 µg/L
K	IP-PS-07-061 (2261/92)	10,000 µg/mL	5 mL	25,000 µg/L
Se	IP-PS-07-080 (2261/93)	1,000 µg/mL	1.5 mL	750 µg/L
Ag	IP-PS-08-025 (2261/97)	1,000 µg/mL	1.5 mL	750 µg/L
Na	IP-PS-07-066 (2261/93)	10,000 µg/mL	5 mL	25,000 µg/L
Tl	IP-PS-07-081 (2261/93)	1,000 µg/mL	1.5 mL	750 µg/L
V	IP-PS-07-074 (2261/93)	5,000 µg/mL	2 mL	5,000 µg/L
Zn	IP-PS-07-076 (2261/93)	10,000 µg/mL	1.0 mL	5,000 µg/L
			FINAL VOL.:	2000 mL

JCS 6/4/08

MADE TO BE USED: As is

Date Made: 6/4/2008 by KK

Expiration date: 12/04/08

Date verified: 06/04/08

Verified by: JCS

Comments: N/A

Verification data found in Run#: i08136

Verification instrument: ICP07

Acid used - Lot#: 100 mL HNO_3 - G04026 JT Baker

100 mL HCL - Fisher 410010 KK6/5/08

Source: CPI

Pipettes 11061166 (5 mL, 2 mL, 1.5 mL), PL-214 (1 ml, 0.150 mL) and a 2 L Volumeteric Flask were used to make this solution. (Glass for all others)

VOLUMES OF PRIMARY SOLUTIONS WERE TAKEN TO THE FINAL VOLUME IN THE MATRIX ABOVE.

LEGEND: PS=Primary Solution, SS=Secondary Solution,

CALCULATION: ((FINAL VOL.) * (FINAL VOL. CONC.)) / CONC. OF PRIMARY = VOL. OF PRIMARY SOLUTION USED

JCS 6/4/08

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Witnessed & Understood by me,	Date	Invented by: NA	Date
[signature]	06/05/08	Recorded by: Joanna C Sanchez	6/4/08

Project No. N/A

TITLE Data Chem Laboratories - Primary Standards Logbook

Book No. 2261

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DCL Solution #	Analytes	Concentration	Vendor	Lot #	Date Rcvd.	Date Opened	Date Expires	Initials
(LPP-SPL-1) IP-PS-07-013/14	Al, Ba / Fe	2,000 ug/mL / 1,000 ug/mL	Inorganic Ventures	Z-MEB194075	03/07/07	03/07/07	04/01/08	KE
776	Co, Mn, Ni, V, Zn	500 ug/mL						
	Cu / Cr3	250 ug/mL / 200 ug/mL						
	Ag, Be	50 ug/mL						
(LPP-SPL-5) IP-PS-07-015	Sb / Cd, Se, Tl	100 ug/mL / 50 ug/mL	Inorganic Ventures	Z-CLCP18071	03/07/07	03/07/07	04/01/08	KE
776	As / Pb	40 ug/mL / 20 ug/mL						
CRI 3.4 IP-PS-07-016	Ba / Se, V	10 ug/mL / 5 ug/mL	Inorganic Ventures	A2-MEB194150	03/28/07	03/29/07	05/01/08	KB
	Cr3, Cu, Sb, Zn	2 ug/mL						
	Ag, As, Be, Cd, Co, Mn, Ni, Pb, Tl	1 ug/mL						
ISS IP-PS-07-017	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194055	03/28/07	03/29/07	05/01/08	KB
ISS IP-PS-07-018	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194055	03/28/07	03/29/07	05/01/08	KB
IP-PS-07-019	Se, Al, Ca / As, Fe, Pb, Mg, Ni, Na	1000 ug/mL / 500 ug/mL	CPI	07C089	04/01/07	04/18/07	09/08/08	KE
	Ba, Be, Cr, Co, Li, Mn, Mo, Sr,	200 ug/mL						
	Ti, V, Y, Zn, Zr, Cu	200 ug/mL						
6010 ICV IP-PS-07-020	K, Na / Fe, P	2000 ug/mL / 200 ug/mL	CPI	07C088	04/01/07	04/18/07	09/08/08	KE
	Ba, Cu, Pb, Se, Tl, Al, As, Mg, B	400 ug/mL						
	Ag, Be, Cd, Co, Cr, Cu, Mn, Ni	100 ug/mL						
	V, Zn, Sr, Li							
IP-PS-07-021	Sb, Mo, Sn, Ti, Si	400 ug/mL, 100 ug/mL	CPI	07C088	04/01/07	04/18/07	09/08/08	KE
IP-PS-07-022	ICV-1	See facing page	EPA/QATS	ICV-1 (1201)	04/18/07		NA	KB
IP-PS-07-023	See facing page							
IP-PS-07-024								
IP-PS-07-025	ICSA (ICP-MS)	See facing page	EPA/QATS	ICSA (0803)	04/18/07	09/23/07	NA	KB
IP-PS-07-026	See facing page					01/17/08		
IP-PS-07-027								
IP-PS-07-028								
IP-PS-07-029								
IP-PS-07-030								
IP-PS-07-031	ICSB (ICP-MS)					09/23/07		
IP-PS-07-032	See facing page	See facing page	EPA/QATS	ICSB (0803)	04/18/07		NA	KB
IP-PS-07-033								
IP-PS-07-034	As	10,000 ug/mL	CPI	07B146	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-035	Ba	10,000 ug/mL	CPI	07C169	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-036	Be	10,000 ug/mL	CPI	07A145	04/01/07	04/20/07	~~09/10~~ 04/20/08	KE

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Witnessed & Understood by me, Kristin Bitner

Date 04/20/07

Invented by

Date

Recorded by

04/20/07

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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

KB 4/19/07

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP and AA instruments. These solutions may also be used as aqueous Laboratory Control Solutions.

The values for each element in the ICVs are listed below in µg/L (ppb) for the solutions that result after the concentrates have been diluted according to the following instructions:

1. ICV-1 (1201) — For ICP-AES use, dilute the ICV-1 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For ICP-MS use, dilute the ICV-1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

2. ICV-2 (0601) -- For furnace AA use, dilute the ICV-2 concentrate 20-fold with 2% (v/v) nitric acid; pipet 5 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

3. ICV-3 (0500) -- For ICP use, dilute the ICV-3 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For furnace AA use, dilute the ICV-3 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

KB 4/19/07

4. ICV-4 (0499) -- For the furnace AA determination of lead and thallium, dilute the ICV-4 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. For the furnace AA determination of silver and cadmium, dilute the ICV-4 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

5. ICV-5 (1104) -- For the cold vapor analysis of mercury by AA, dilute the ICV-5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV-5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

6. ICV-6 (0400) -- For the analysis of cyanide, dilute the ICV-6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100-mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE FOR ICP-MS
PART A (0803) WITH PART B (0803)

Part A (0803), Inferferents: Pipet 10 mL of the Part A solution into a 100-mL volumetric flask and dilute to volume with 1% v/v HNO3. Analyze this solution, Soln. A, by ICP-MS.

Part B (0803), Analytes, mixed with Part A (0803), 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 1% v/v HNO3. Analyze this solution, Soln. AB, by ICP-MS.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS PART A (0803) AND PART A (0803) MIXED WITH PART B (0803)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	[100000]	[100000]
Sb	(1.5)	22
As	(0.1)	19
Ba	(1.2)	22
Be	(0)	19
Cd	(0.7)	20
Ca	[100000]	[100000]
C	[200000]	[200000]
Cl	[1000000]	[1000000]
Cr	21	40
Co	1	20
Cu	8	25
Fe	[100000]	[100000]
Pb	4	25
Mg	[100000]	[100000]
Mn	7	27
Mo	[2000]	[2000]
Ni	6	24
P	[100000]	[100000]
K	[100000]	[100000]
Se	(0.3)	19
Ag	(0)	18
Na	[100000]	[100000]
S	[100000]	[100000]
Tl	(0)	21
Ti	[2000]	[2000]
V	(0.5)	19
Zn	11	29

KB 04/19/07

[ ] INDICATES ANALYTES THAT DO NOT REQUIRE ICP-MS DETERMINATION IN THE ICS.
( ) INDICATES ANALYTE VALUES THAT ARE LESS THAN THE CRQL AND THE VALUE IS TO BE USED AS A SET POINT FOR THE ± 3 TIMES CRQL ACCEPTANCE CRITERIA CALCULATIONS.

Project No. N/A

TITLE Datachem Laboratories - Primary Standards Logbook

Book No. 22601

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DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE RECD	DATE OPENED	DATE EXPIRES	INIT.
IP-PS-07-037	Cr	10,000 ug/mL	CPI	07A104	04/01/07	04/20/07	10/04/08	KE
IP-PS-07-038	Ni	10,000 ug/mL	CPI	07B236	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-039	Pt	10,000 ug/mL	CPI	06D247	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-040	Sb	10,000 ug/mL	CPI	06D239	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-041	Si	10,000 ug/mL	CPI	06J226	04/01/07	04/20/07	10/04/08	KE
IP-PS-07-042	Ti	10,000 ug/mL	CPI	06I044	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-043	W	1,000 ug/mL	CPI	06L114	04/01/07	04/20/07	09/30/08	KE
IP-PS-07-044	Zr	1,000 ug/mL	CPI	07C203	04/01/07	04/20/07	09/30/08	KE
6020 std IP-PS-07-045	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20.00 ug/mL	Inorganic Ventures	Z-MEB194104	05/29/07	05/29/07	06/01/08	KB
ICP-MS CLP Spike IP-PS-07-046	As, Ba/Ca, Mn, Ni, V, Zn Cu / Cr3 Sb/Ag, Be, Cd, Tl As/Pb/Se	200 ug/mL / 50 ug/mL 25 ug/mL / 20 ug/mL 10 ug/mL / 5 ug/mL 4 ug/mL / 2 ug/mL / 1 ug/mL	Inorganic Ventures	A2-MEB194119	05/29/07	05/29/07	06/01/08	KB
6020 ISTD IP-PS-07-047	Bi, Ho, In, Li6, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194055	05/29/07	05/29/07	06/01/08	KB
6020 ISTD IP-PS-07-048	Bi, Ho, In, Li6, Rh, Sc, Tb, Y	10 ug/mL	Inorganic Ventures	Z-MEB194055	05/29/07	05/29/07	06/01/08	KB
IP-PS-07-049	Li, Sr, Th, U	20 ug/mL	Inorganic Ventures	A2-MEB238016	06/01/07	06/04/07	06/01/08	KB
IP-PS-07-050	B, Mo, Sn, Ti	20 ug/mL	Inorganic Ventures	A2-MEB238017	06/01/07	06/04/07	06/01/08	KB
X-STUNE IP-PS-07-051	Ba, Be, Bi, Cr, Co, In, Li, Ni, Pb, U	10 ug/mL	Inorganic Ventures	A2-MEB238018	06/01/07	06/04/07	06/01/08	KB
IP-PS-07-052	Ag	1,000 ug/mL	CPI	06J107	06/06/07	06/07/07	12/01/08	KE
IP-PS-07-053	Al	10,000		07E205	07/09/07	07/19/07	01/05/09	JK
IP-PS-07-054	B	5,000		06K019				
IP-PS-07-055	CA	10,000		07F345				
IP-PS-07-056	CA	10,000		07F345				
IP-PS-07-057	Cd	10,000		07E050				
IP-PS-07-058	Co	10,000		07F078				
IP-PS-07-059	Cu	10,000		07F075				
IP-PS-07-060	Fe	10,000		07E183				
IP-PS-07-061	K	10,000		07F131				
IP-PS-07-062	Li	10,000		06I145				
IP-PS-07-063	Mg	10,000		07D085				
~~IP-PS-07-064~~	JK 07-19-07							

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Witnessed & Understood by me, [signature] Date 07/19/07

Invented by

Recorded by [signature] Date 07/19/07

Project No. N/A

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK

Book No. 2261

From Page No. 92

DCL Solution #	Analytes	Concentration	Vendor	Lot #	Date Rec'd	Date Opened	Date Expires	Initials
IP-PS-07-064	Mn	10,000 ug/mL	CPI	07C113	07/09/07	07/19/07	01/05/09	JK
IP-PS-07-065	Mo	10,000		06H253				
IP-PS-07-066	Na	10,000		07F228				
IP-PS-07-067	P	10,000		07E211				
IP-PS-07-068	Pb	10,000		07F278				
IP-PS-07-069	Se	10,000		07C158				
IP-PS-07-070	Sn	10,000		06B011				
IP-PS-07-071	Sr	10,000		06J208				
IP-PS-07-072	Te	10,000		4BK070				
IP-PS-07-073	Tl	10,000		05K082				
IP-PS-07-074	V	5,000		07B083				
IP-PS-07-075	Y	10,000		07A200				
IP-PS-07-076	Zn	10,000		07D133				
IP-PS-07-077	As	1,000		07F105				
IP-PS-07-078	Cd	1,000		07C053				
IP-PS-07-079	Pb	1,000		07F108				
IP-PS-07-080	Se	1,000		07C044				
IP-PS-07-081	Tl	1,000		06C009				
IP-PS-07-082	Sb	1,000		07A076				
IP-PS-07-083	ICSA	SEE FACING PAGE	EPA / QATS	ICSA (1206)	07/19/07	07/28/07	N/A	JK
IP-PS-07-084	SEE FACING PAGE					08/28/07		
IP-PS-07-085						08/27/07		
IP-PS-07-086						08/30/07		
IP-PS-07-087						10/15/07		
IP-PS-07-088						10/15/07		
IP-PS-07-089								
IP-PS-07-090								
IP-PS-07-091	ICSB	SEE FACING PAGE	EPA / QATS	ICSB (0203)	07/19/07	08/27/07	N/A	JK
IP-PS-07-092	SEE FACING PAGE					10/15/07		
IP-PS-07-093						12/21/07		
IP-PS-07-094						12/21/07		
IP-PS-07-095	ICV-1 SEE FACING PAGE	SEE FACING PAGE	EPA / QATS	ICV-1 (1201)	07/19/07	07/28/07	N/A	AE
IP-PS-07-096						08/30/07		
IP-PS-07-097						10/31/07		
IP-PS-07-098								

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Witnessed & Understood by me, John Kershaw

Date 07/29/07

Invented by

Recorded by

Date 07/20/07

Project No. 19

TITLE DataChem Laboratories - Primary Standards Log book

Book No. 2261

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DCL Solution #	Analytes	Concentration	Vendor	Lot #	Date Rec'd	Date Opened	Date Expires	Initials
6020 ICSB IP-PS-07-118	Co, Cr3, Cu, Mn, Ni, V	20 µg/mL	Inorganic Ventures	Z-MEB194098	09/26/07	10/01/07	10/01/08	KB
	As, Cd, Sr, Zn / Ag	10/5 µg/mL						
Std IP-PS-07-119	Ce	1000 µg/mL	Inorganic Ventures	A2-CE01055	09/26/07	10/01/07	10/01/08	KB
Std IP-PS-07-120	Cs	1000 µg/mL	Inorganic Ventures	Z-CS01113	09/26/07	10/01/07	10/01/08	KB
Std IP-PS-07-121	Ga	1000 µg/mL	Inorganic Ventures	Z-GA01072	09/26/07	10/01/07	10/01/08	KB
6020 Std IP-PS-07-122	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20 µg/mL	Inorganic Ventures	Z-MEB194104	09/26/07	10/01/07	10/01/08	KB
ISS IP-PS-07-123	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 µg/mL	Inorganic Ventures	A2-MEB194155	09/26/07	10/01/07	10/01/08	KB
ISS IP-PS-07-124	Bi, Ho, In, Li, Rh, Sc, Tb, Y	10 µg/mL	Inorganic Ventures	A2-MEB194155	09/26/07	10/01/07	10/01/08	KB
IP-PS-07-125	Se	10000 µg/mL	INORGANIC VENTURES	A2-SE020273	09/26/07	10/03/07	10/01/08	Jmy
IP-PS-07-126	Li, Sr, Th, U	20 µg/mL	Inorganic Ventures	A2-MEB248043	10/26/07 ~~09/26/07~~	10/29/07	11/01/08	KB
IP-PS-07-127	B, Mo, Sn, Ti	20 µg/mL	Inorganic Ventures	A2-MEB248044	10/26/07	10/29/07	11/01/08	KB
IP-PS-07-128	Au, Ir, Os, Pd, Pt, Re, Rh, Ru	10 µg/mL	Inorganic Ventures	Z-MEB208107	10/26/07	10/29/07	11/01/08	KB
IP-PS-07-129	Li	10 µg/mL	Inorganic Ventures	A2-QLI02142	10/26/07	10/29/07	11/01/08	KB
IP-PS-07-130	Ag, Be, Cd	10 µg/mL	Inorganic Ventures	A2-MEB250073	12/03/07	12/05/07	01/01/09	gcs
	Cr3	40 µg/mL						
	Cu	50 µg/mL						
	Co, Li, Mn, Ni, Pb, V, Zn	100 µg/mL						
	As, B, Fe, Se, Sr	200 µg/mL						
	Al, Ba, Tl	400 µg/mL						gcs
IP-PS-07-131	Sb, Ti	100 µg/mL	Inorganic Ventures	A2-MEB250074	12/03/07	12/05/07	01/01/09	gcs
	Si, Sn	200 µg/mL						
	Mo	400 µg/mL						gcs
IP-PS-07-132	SOIL LCSS	SEE FACING PAGE	EPA/QATS	LCS-S (0405)	11/08/07		N/A	NE
IP-PS-07-133	(SEE FACING PAGE)							
IP-PS-07-134								
IP-PS-07-135	ICV-1	SEE FACING PAGE	EPA/QATS	ICV-1 (1201)	11/08/07		N/A	NE
IP-PS-07-136	SEE FACING PAGE					01/08/08		
IP-PS-07-137						02/28/08		
IP-PS-07-138								
IP-PS-07-139						3/25/08		

NE 12/12/07

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Witnessed & Understood by me,	Date	Invented by	Date
Kristie Bitner	04/08/08	Recorded by	12/12/07

Project No. N/A

TITLE DATACHEM LABORATORIES- PRIMARY STANDARDS LOGBOOK

Book No. 2261

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DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE REC'D	DATE OPENED	DATE EXPIRES	ENG.
IP-PS-07-140	ICSA:	SEE FACING PAGE	EPA / QATS	PART A (1206)	11/08/07	12/12/07	N/A	KE
IP-PS-07-141	SEE FACING PAGE					12/21/07		
IP-PS-07-142						12/21/07		
IP-PS-07-143						01/05/08		
IP-PS-07-144								
IP-PS-07-145								
IP-PS-07-146	ICSAB	SEE FACING PAGE	EPA / QATS	PART B (0203)	11/08/07		N/A	KE
IP-PS-07-147	SEE FACING PAGE					03/19/08		
IP-PS-07-148						05/09/08		
6020 Std IP-PS-07-149 6020 Std IP-PS-07-150	Ag, Al, As, Ba, Be, Co, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Tl, V, Zn	20 mg/mL	Inorganic Ventures	Z-MEB194104	12/17/07	12/17/07	01/01/09	KB
12/17/07 KB 6020 Std IP-PS-07-151	Ba/ Ba, Cr3, Cu, Zn Ni/Co, Pb, Sb/V Ag, As, Cd/Be, Se, Tl	50 mg/mL 25 mg/mL / 20 mg/mL / 50 mg/mL 10 mg/mL / 5 mg/mL	Inorganic Ventures	A2-CICP20089	12/17/07	12/17/07	01/01/09	KB
2255 IP-PS-07-152 2255 IP-PS-07-153	Be, Ho, In, Li, Rh, Sc, Tl, Y	10 mg/mL	Inorganic Ventures	A2-MEB194155	12/17/07	12/07/07	01/01/09	KB
IP-PS-08-001	Li, Zn, Y, Bi, Se, Ho, Th	10 mg/mL	INORGANIC VENTURES	B2-MEB255572	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-002	In	10 mg/mL	INORGANIC VENTURES	A2-QINO1098	02/05/08	02/05/08	03/01/09	KE
6020 WATER STD IP-PS-08-003	Fe / Ba, Zn Co, Cr3, Cu, Mn, Ni, Sb, V As, Pb Ag, Be, Cd, Se, Tl	100 mg/mL / 50 mg/mL 20 mg/mL 10 mg/mL 5 mg/mL	INORGANIC VENTURES	Z-MEB194099	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-004	Li, Sr, Th, U	20 mg/mL	INORGANIC VENTURES	A2-MEB248045	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-005	B, Mo, Sn, Ti	20 mg/mL	INORGANIC VENTURES	A2-MEB248044	02/05/08	02/05/08	03/01/09	KE
IP-PS-08-006	Ca, Mg, K, Na / Al, Ba Fe / Sb, Zn Co, V / Ni / Se Cu, Tl / Mn Ag, As, Cr3, Pb / Be, Cd	500 mg/mL / 20 mg/mL 10 mg/mL / 6 mg/mL 5 mg/mL / 4 mg/mL / 3.5 2.5 mg/mL / 1.5 mg/mL 1.0 mg/mL / 0.5 mg/mL	INORGANIC VENTURES	KE 02/14/08 Z-MEB194095	02/13/08	02/14/08	03/01/09	KE
IP-PS-08-007	Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn	10 mg/mL	SPEX KB 2/29/08 ~~Inorganic Ventures~~	S-11263	02/28/08	02/29/08	02/28/09	KB
CLP-SPK-6 IP-PS-08-008 KB2	Sb / Cd, Se, Tl As / Pb	100 mg/mL / 50 mg/mL 40 mg/mL / 20 mg/mL	INORGANIC VENTURES	Z-MEB194090	03/10/08	03/10/08	03/01/09	KE

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Witnessed & Understood by me, Kristie Bitner

Date 03/28/08

Invented by

Date 03/10/08

Recorded by

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QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET
PART A (1206) WITH PART B (0203) FOR ICP-AES

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: ILM05.4 Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis. Preparation and analysis must be performed according to the following instructions:

Part A (1206), Interferents: Pipet 10 mL of the Part A solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this solution, Soln. A, by ICP-AES.

Part B (0203), Analytes, mixed with Part A (1206), 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 HNO_3. Analyze this solution, Soln. AB, by ICP-AES.

NOTE: THIS ICS SET IS FOR USE WITH ILM05.4 AND REVISIONS ONLY, NOT ILM04.x.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES PART A (1206), AND PART A (1206) MIXED WITH PART B (0203)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	244100	241100
Sb	(0)	589
As	(0)	101
Ba	2	495
Be	(0)	475
Cd	(0)	940
Ca	234900	231100
Cr	43	511
Co	(4)	461
Cu	(23)	548
Fe	95600	94800
Pb	10	61
Mg	247500	251100
Mn	19	502
Ni	(21)	984
Se	(0)	53
Ag	(0)	206
Tl	(0)	103
V	(0)	494
Zn	28	1028

(.) 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.

KE 12/12/07

Project No. N/A

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK

Book No. 2261

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DCL SOLUTION #	ANALYTES	CONCENTRATION	VENDOR	LOT #	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT
CLPP-SPK-1 IP-PS-08-009	Al, Ba / Fe	2000 mg/mL / 1000 mg/mL	INORGANIC VENTURES	Z-MEB174075	03/10/08	03/10/08	03/01/09	KE
	Co, Mn, Ni, V, Zn / Cu	500 mg/mL / 250 mg/mL						
2261	Cr3 / Ag, Be	200 mg/mL / 50 mg/mL						
IP-PS-08-010	ICSA (SEE FACING PAG)	SEE FACING PAGE	EPA / RATS	ICSA (1206)	03/10/08	03/19/08	N/A	KE
IP-PS-08-011						03/19/08		
IP-PS-08-012								
IP-PS-08-013								
IP-PS-08-014								
IP-PS-08-015						05/21/08		
IP-PS-08-016						05/09/08		
IP-PS-08-017						05/21/08		
IP-PS-08-018	ICSAB	SEE FACING PAGE	EPA / RATS	ICSAB (0203)	03/10/08		N/A	KE
IP-PS-08-019	SEE FACING PAGE							
IP-PS-08-020								
6020 ICS IP-PS-08-021	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn	20 µg/mL	Inorganic Ventures	Z-MEB194104	03/27/08		04/01/09	KB
6020 ICS 03/28/08 IP-PS-08-022	Bi, Hf, In, Li6, Rh, Sc, Tb, Y	10 µg/mL	Inorganic Ventures	A2-MEB194165	03/27/08		04/01/09	KB
6020 ICS 03/28/08 IP-PS-08-023								
6020 ICS 03/28/08 IP-PS-08-024								
IM08023 (1879) IP-PS-08-025	Ag	1000 mg/mL	CPI	07H114	5/1/08	5/1/08	10/28/09	RKA
IM08024 (1883) IP-PS-08-026	Sb	10,000 mg/mL	CPI	07F023	5/1/08		10/28/09	RKA
IM08028 (1885) IP-PS-08-027	Ba	10,000 mg/mL	CPI	07C169	5/1/08		10/28/09	RKA
IP-PS-08-028 IM08026 (1886)	K	10,000 mg/mL	CPI	08C049	5/1/08		10/28/09	RKA
IP-PS-08-029 IM08027 (1887)	W	1000 mg/mL	CPI	07I208	5/1/08		10/28/09	RKA
IP-PS-08-030 IM08028 (1888)	Pt	10,000 mg/mL	CPI	07D260	5/1/08		10/28/09	RKA
IP-PS-08-031 IM08029 (1889)	Na	10,000 mg/mL	CPI	08A030	5/1/08		10/28/09	RKA
IM08030 (1890) IP-PS-08-032	Ti	10,000 mg/mL	CPI	08A002	5/1/08		10/28/09	RKA
IM08031 (1891) IP-PS-08-033	Be	10,000 mg/mL	CPI	07F218	5/1/08		10/28/09	RKA
IM08032 (1892) IP-PS-08-034	Al	10,000 mg/mL	CPI	08C004	5/1/08		10/28/09	RKA
IP-PS-08-035 IM08033 (1893)	Fe	10,000 mg/mL	CPI	08B059	5/1/08		10/28/09	RKA
IP-PS-08-036 IM08034 (1894)	Zr	1,000 mg/mL	CPI	08A083	5/1/08		10/28/09	RKA
IP-PS-08-037 IM08035 (1895)	Ni	10,000 mg/mL	CPI	08A040	5/1/08		10/28/09	RKA
IP-PS-08-038 IM08036 (1896)	Mg	10,000 mg/mL	CPI	08C006	5/1/08		10/28/09	RKA

To Page No. 98

Witnessed & Understood by me, Joanna C. Sanchez

Date 5/5/08

Invented by NA

Recorded by [signature]

Date 5/5/08

156

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET
PART A (1206) WITH PART B (0203) FOR ICP-AES

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: ILM05.4 Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis. Preparation and analysis must be performed according to the following instructions:

Part A (1206), Interferents: Pipet 10 mL of the Part A solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this solution, Soln. A, by ICP-AES.

Part B (0203), Analytes, mixed with Part A (1206), 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 HNO_3. Analyze this solution, Soln. AB, by ICP-AES.

NOTE: THIS ICS SET IS FOR USE WITH ILM05.4 AND REVISIONS ONLY, NOT ILM04.x.

Page facing page 97
book 2261 gcs 5/9/08

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES PART A (1206), AND PART A (1206) MIXED WITH PART B (0203)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	244100	241100
Sb	(0)	589
As	(0)	101
Ba	(2)	495
Be	(0)	475
Cd	(0)	940
Ca	234900	231100
Cr	43	511
Co	(4)	461
Cu	(23)	548
Fe	95600	94800
Pb	10	81
Mg	247500	251100
Mn	19	502
Ni	(21)	984
Se	(0)	53
Ag	(0)	208
Tl	(0)	103
V	(0)	494
Zn	(28)	1028

( ) 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.

AE 03/10/08

Project No. NA

TITLE DATACHEM LABORATORIES - PRIMARY STANDARDS LOGBOOK 6/6/08 PPA

Book No. 2261

From Page No. 97

DCL Solution #	ANALYTES	CONCENTRATION	VENDOR	LOT#	DATE REC'D	DATE OPENED	DATE EXPIRES	INIT
IM080037(1877) IP-PS-08-039	As	10,000 µg/mL	CPI	07H102	5/1/08	5/1/08	10/28/09	RKA
IM080381(1878) IP-PS-08-040	Si	10,000 µg/mL	CPI	07D206	5/1/08	5/1/08	10/28/09	RKA
CRI-MS IP-PS-08-041	Ba / Be, V Cr3, Cu, Sb, Zn Ag, As, Br, Cd, Co, Mn, Ni, Pb, Tl	10 µg/mL / 5 µg/mL 2 µg/mL 1 µg/mL	Inorganic Ventures	A2-MEB194150	05/05/08	05/05/08	06/01/09	KB
CLP-MS-SPK IP-PS-08-042	Al, Ba Co, Mn, Ni, V, Zn Cu / Cr3 Sb / Ag, Br, Cd, Tl As / Pb Se	200 µg/mL 50 µg/mL 25 µg/mL / 20 µg/mL 10 µg/mL / 5 µg/mL 4 µg/mL / 2 µg/mL 1 µg/mL	Inorganic Ventures	A2-MEB194119	05/05/08	05/05/08	06/01/09	KB
IM080089(1899) IP-PS-08-043	Cr	10,000 µg/mL	CPI	07I020	5/6/08	5/6/08	11/2/09	RKA
IM080342(1902) IP-PS-08-044	Bi	10,000 µg/mL	Elements	CS7011437	4/16/08	5/8/08	10/09	RKA
IP-PS-08-045	ICSA (See facing page)	See facing page	EPA/QATS	ICSA (1206)	04/16/08		NA	GCS
IP-PS-08-046								
IP-PS-08-047								
IP-PS-08-048								
IP-PS-08-049					04/17/08 GCS 6/6/08			
IP-PS-08-050	ICSAB (See facing Pg)	See facing page	EPA / QATS	ICSAB (0203)	04/16/08		NA	GCS
IP-PS-08-051								
IP-PS-08-052					04/17/08 GCS 6/6/08			
IP-PS-08-053	ICV-1 (See facing Pg)	See facing page	EPA / QATS	ICV-1 (1201)	04/16/08		NA	GCS
IP-PS-08-054								
IP-PS-08-055								
IP-PS-08-056								
IP-PS-08-057					04/17/08			
IP-PS-08-058	Soil LCSS (See facing page)	See facing page	EPA / QATS	LCS-S (0405)	04/17/08		NA	GCS
IP-PS-08-059	Ba, Be, Bi, Ce, Co, In, Li, Ni, Pb, U	10 µg/mL	Inorganic Ventures	B2-MEB265024	05/08/08	05/13/08	06/01/09	KB
ICP-MS CLP ICSA IP-PS-08-060	See p.91 facing page	See p.91 facing page	EPA/QATS	Part A ICS-MS (0803)	04/17/08		NA	KB
IP-PS-08-061	See p.91 facing page	See p.91 facing page	EPA/QATS	Part B ICS-MS (0803)	04/17/08		NA	KB
IP-PS-08-062	Pb	1,000 µg/mL	CPI	08D051	05/20/08	06/04/08	11/16/09	GCS
(6020 Ca) IP-PS-08-063	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr3, Cu, Fe, K, Mg, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn	20 µg/mL	Inorganic Ventures	Z-MEB194104	06/17/08	06/18/08	07/01/09	KB

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Witnessed & Understood by me, Joanna C. Sanchez

Date 6/27/08

Invented by

Date 06/18/08

Recorded by Kristie Butler

QATS INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET
PART A (1206) WITH PART B (0203) FOR ICP-AES

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: ILM05.4 Pre-award analysis, Quarterly Blind analysis, CLP laboratory referee analysis, and QATS Laboratory analysis. Preparation and analysis must be performed according to the following instructions:

Part A (1206), Interferents: Pipet 10 mL of the Part A solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this solution, Soln. A, by ICP-AES.

Part B (0203), Analytes, mixed with Part A (1206), 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 HNO_3. Analyze this solution, Soln. AB, by ICP-AES.

NOTE: THIS ICS SET IS FOR USE WITH ILM05.4 AND REVISIONS ONLY, NOT ILM04.x.

GCS 5/12/08

Page facing page 98
book 2261 gcs 5/12/08

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES PART A (1206), AND PART A (1206) MIXED WITH PART B (0203)

Element	Concentration (µg/L) Part A	Concentration (µg/L) Part A + Part B
Al	244100	241100
Sb	(0)	589
As	(0)	101
Ba	(2)	495
Be	(0)	475
Cd	(0)	940
Ca	234900	231100
Cr	43	511
Co	(4)	461
Cu	(23)	548
Fe	95600	94800
Pb	10	61
Mg	247500	251100
Mn	19	502
Ni	(21)	984
Se	(0)	53
Ag	(0)	206
Tl	(0)	103
V	(0)	494
Zn	(28)	1028

( ) 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.

QATS INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICVs)

Element	ICV-1 (1201) 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

GCS 5/12/08

QATS INORGANIC REFERENCE MATERIAL
SOLID LABORATORY CONTROL SAMPLE
LCS-S (0405)

TABLE 1. "CERTIFIED VALUE" CONCENTRATIONS AND CONTROL LIMITS FOR THE ELEMENTS IN THE SOLID LABORATORY CONTROL SAMPLE, LCS-S (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.

GCS 5/12/08

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Wednesday, June 18, 2008 2:47 PM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Attachments: 2008061810320025.pdf; 37402 CLP IDs.xls

2008061810320025.pdf (642 KB) 37402 CLP IDs.xls (28 KB)

-----Original Message-----
From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Wednesday, June 18, 2008 2:24 PM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,
Summary Start
-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC. with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.
Resolution 1: Per Region 8, the laboratory will note issue in the SDG Narrative and will use the CLP sample ID provided in the attached table for the DM water and soil samples. The TM water samples will retain the CLP ID listed on the TR/COC.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4. TM container was received.
Resolution 2: Per Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----
From: Beard.Carol@epamail.epa.gov [mailto:Beard.Carol@epamail.epa.gov]
Sent: Wednesday, June 18, 2008 1:17 PM
To: Kramer, Caroline
Subject: Re: Region 08 |Case 37402 | Lab DATAC | Issue Multiple

Caroline-

Issue 1 : Please provide the laboratory with new ID for the different matrices for Case 37402.

Issue 2 : Please have the laboratory note this in the case narrative and proceed with the analysis.

Thanks! Carol

"Kramer, Caroline" <ckramer5@fedcsc.com>
06/18/2008 11:06 AM

To: Carol Beard/EPR/R8/USEPA/US@EPA
cc:
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Multiple

Carol,
DATAC is reporting the follow issues regarding Case 37402 for samples delivered today. TR/COC are attached for reference. Please advise on how the Region wishes the laboratory to proceed.

-Discrepancies with tags, jars, and/or TR/COC- Issue 1: The soil, TM and DM samples were all given the same sample ID on the TR/COC.

*Please advise if you would like me to provide new ID for the different matrices. I can do this in a table like last time.

-Sample listed on TR/COC but not received at laboratory- Issue 2: No sample container was received for DM for sample on TR designated MH25A4.
TM container was received.

Please let me know if you have any questions.
Thanks,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Wednesday, June 18, 2008 12:40 PM
To: Kramer, Caroline
Cc: Edwards, Meredith D.
Subject: Case 37402 Sample Delivery 6/18

Caroline: Here are the TRs for case 37402 for samples we received today and which we spoke about a few minutes ago on the phone.

Issues we see immediately:

TM, DM and Sediment samples all have same EPA IDs. Water containers labels do

differentiate between DM and TM.
No container was received for DM for sample on TR designated MH25A4. TM container was received.
How do we complete DC-1 forms?

More issues may crop up but we can't begin to address this delivery until we get the first issues taken care of.

Thanks for your help!

Roxy
(See attached file: 2008061810320025.pdf)

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Thursday, June 19, 2008 9:05 AM
To: Edwards, Meredith D.
Subject: FW: Region 08 | Case 37402 | Lab DATAC | Issue Sample received at laboratory but not listed on TR/COC | FINAL

-----Original Message-----
From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Thursday, June 19, 2008 9:07 AM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 | Case 37402 | Lab DATAC | Issue Sample received at laboratory but not listed on TR/COC | FINAL

Roxy,
Summary Start
Issue: The laboratory did received a soil container for sample MH25A4; however there was no sediment matrix listed under this sample on the TR.
Does the Region want this soil sample analyzed? If so it will need a unique CLP sample ID, since MH25A4 is being used for the TM fraction of this sample.
Resolution: Per Region 8, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the soil sample using the CLP sample ID provided below. Case 37402 is now complete.
TR sample ID--> New ID for soil matrix
MH25A4 --> MH26D2
Summary End

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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--> 6/19/2008 Phone conversation between Caroline Kramer, SMO, and Carol Beard, Region 8. Carol indicated that the laboratory should proceed with the analysis of the soil sample received under ID MH25A4, and that SMO should provide a new CLP sample ID for the soil matrix. Carol also confirmed that Case 37402 is complete.

-----Original Message-----
From: Kramer, Caroline
Sent: Thursday, June 19, 2008 8:18 AM
To: 'beard.carol@epa.gov'
Subject: Region 08 | Case 37402 | Lab DATAC | Issue Sample received at laboratory but not listed on TR/COC

Carol,

DATAC is reporting an additional issue regarding Case 37402. Please advise on how the Region wishes the laboratory to proceed.

Issue: The laboratory did received a soil container for sample MH25A4; however there was no sediment matrix listed under this sample on the TR.
Does the Region want this soil sample analyzed? If so it will need a unique CLP sample ID, since MH25A4 is being used for the TM fraction of this sample.

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Wednesday, June 18, 2008 5:36 PM
To: Kramer, Caroline
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Caroline:

One more issue with this case. Although not listed on the TR we did receive a soil container for sample MH25A4. If the region wants us to analyze it we will need a uniqe ID for that Soil sample. We are using
MH25A4 ID for the TM.

Roxy

-----Original Message-----
From: Edwards, Meredith D.
Sent: Wednesday, June 18, 2008 3:25 PM
To: Olson, Roxanne
Subject: RE: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Upon trying to fill out the DC-1 forms for this case I noticed that we did receive a soil sample for MH25A4 but the TR doesn't list any soils.
Do they want us to analyze it? If so then I will need a new ID number.

Thanks

mere

Listed TR ID	Matrix	Analysis	New CLP ID
MH2599	water	TM	MH2599
	water (filterd)	DM	MH2662
	soil	TM	MH2663
MH25A0	water	TM	MH25A0
	water (filterd)	DM	MH2664
	soil	TM	MH2665
MH25A1	water	TM	MH25A1
	water (filterd)	DM	MH2666
	soil	TM	MH2667
MH25A2	water	TM	MH25A2
	water (filterd)	DM	MH2668
	soil	TM	MH2669
MH25A3	water	TM	MH25A3
	water (filterd)	DM	MH2670
	soil	TM	MH2671
MH25A6	water	TM	MH25A6
	water (filterd)	DM	MH2672
MH25A7	water	TM	MH25A7
	water (filterd)	DM	MH2673
	soil	TM	MH2674
MH25A9	water	TM	MH25A9
	water (filterd)	DM	MH2675
	soil	TM	MH2676
MH25B0	water	TM	MH25B0
	water (filterd)	DM	MH2677
	soil	TM	MH2678
MH25B1	water	TM	MH25B1
	water (filterd)	DM	MH2679
	soil	TM	MH2680
MH25B2	water	TM	MH25B2
	water (filterd)	DM	MH2681
	soil	TM	MH2682
MH25B3	water	TM	MH25B3
	water (filterd)	DM	MH2683
	soil	TM	MH2684
MH25B4	water	TM	MH25B4
	water (filterd)	DM	MH2685
MH25B5	water	TM	MH25B5
	water (filterd)	DM	MH2686
	soil	TM	MH2687
MH25B6	water	TM	MH25B6
	water (filterd)	DM	MH2688
	soil	TM	MH2689
MH25B7	water	TM	MH25B7
	water (filterd)	DM	MH2690
	soil	TM	MH2691

MH25B8	water	TM	MH25B8
	water (filterd)	DM	MH2692
	soil	TM	MH2693
MH25C0	water	TM	MH25C0
	water (filterd)	DM	MH2694
	soil	TM	MH9695
MH25C4	water	TM	MH25C4
	water (filterd)	DM	MH2696
MH25C5	water	TM	MH25C5
	water (filterd)	DM	MH2697
	soil	TM	MH2698
MH25C7	water	TM	MH25C7
	water (filterd)	DM	MH2699
	soil	TM	MH26A0
MH25C8	water	TM	MH25C8
	water (filterd)	DM	MH26A1
	soil	TM	MH26A2
MH25C9	water	TM	MH25C9
	water (filterd)	DM	MH26A3
MH25D1	water	TM	MH25D1
	water (filterd)	DM	MH26A4
	soil	TM	MH26A5
MH25D3	water	TM	MH25D3
	water (filterd)	DM	MH26A6
MH25D4	water	TM	MH25D4
	water (filterd)	DM	MH26A7
	soil	TM	MH26A8
MH25D5	water	TM	MH25D5
	water (filterd)	DM	MH26A9
	soil	TM	MH26B0
MH25D6	water	TM	MH25D6
	water (filterd)	DM	MH26B1
MH25D7	water	TM	MH25D7
	water (filterd)	DM	MH26B2
	soil	TM	MH26B3
MH25D8	water	TM	MH25D8
	water (filterd)	DM	MH25B4
MH25D9	water	TM	MH25D9
	water (filterd)	DM	MH26B5
MH25E0	water	TM	MH25E0
	water (filterd)	DM	MH26B6
MH25E1	water	TM	MH25E1
	water (filterd)	DM	MH26B7
MH25E2	water	TM	MH25E2
	water (filterd)	DM	MH26B8
MH25E3	water	TM	MH25E3
	water (filterd)	DM	MH26B9

MH25E4	water	TM	MH25E4
	water (filterd)	DM	MH26C0
	soil	TM	MH26C1
MH25E5	water	TM	MH25E5
	water (filterd)	DM	MH26C2
	soil	TM	MH26C3
MH25E6	water	TM	MH25E6
	water (filterd)	DM	MH26C4
	soil	TM	MH26C5
MH25E7	water	TM	MH25E7
	water (filterd)	DM	MH26C6
	soil	TM	MH26C7
MH25E8	water	TM	MH25E8
	water (filterd)	DM	MH26C8
	soil	TM	MH26C9
MH25E9	water	TM	MH25E9
	water (filterd)	DM	MH26D0
MH25F0	water	TM	MH25F0
	water (filterd)	DM	MH26D1

Edwards, Meredith D.

From: Olson, Roxanne
Sent: Friday, June 20, 2008 9:54 AM
To: Edwards, Meredith D.
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

From: Kramer, Caroline [mailto:ckramer5@fedcsc.com]
Sent: Friday, June 20, 2008 9:46 AM
To: Olson, Roxanne
Cc: beard.carol@epa.gov
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume | FINAL

Roxy,
Summary Start
Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.
MH2599 (TM water) no QC selected as there is not enough volume.
MH25C5 (TM water) no QC selected as there is not enough volume.
MH25E8 (TM water) no QC selected as there is not enough volume.
MH2662 (DM water) no QC selected as there is not enough volume.
MH2697 (DM water) no QC selected as there is not enough volume.
MH26C8 (DM water) no QC selected as there is not enough volume.
MH25F1 (TM soil) selected MH26C9 for QC.
MH2663 (TM soil) selected MH2695 for QC
Resolution: Per Region 8, the laboratory's selection of soil QC samples is acceptable. The laboratory will note the volume insufficiency in the SDG Narrative, cancel lab QC on the TM and DM SDG and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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→ **6/20/2008 Phone conversation between Caroline Kramer, SMO, and Carol Beard, Region 8. Carol confirmed that the soil samples selected for QC are acceptable and that DATAC can cancel the QC for the water samples due to insufficient sample volume. The laboratory will note the issue in the SDG Narrative.**

From: Kramer, Caroline

Sent: Thursday, June 19, 2008 3:21 PM
To: 'beard.carol@epa.gov'
Subject: Region 08 |Case 37402 | Lab DATAC | Issue Insufficient volume

Carol,
DATAC is reporting the following issue regarding Case 37402. Please advise on how the Region wishes the laboratory to proceed.

Issue: There were no samples designated on the TR/COC for laboratory QC and lab QC is required per scheduling. The laboratory is unable to perform a reduced volume QC on the waters as the samplers delivered the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. Below is a list of the SDG for Case 37402 and the laboratory has indicated which SDG will not have sufficient volume for QC, and where possible selected a sample they would like to use for QC.

MH2599 (TM water) no QC selected as there is not enough volume.
MH25C5 (TM water) no QC selected as there is not enough volume.
MH25E8 (TM water) no QC selected as there is not enough volume.
MH2662 (DM water) no QC selected as there is not enough volume.
MH2697 (DM water) no QC selected as there is not enough volume.
MH26C8 (DM water) no QC selected as there is not enough volume.
MH25F1 (TM soil) selected MH26C9 for QC.
MH2663 (TM soil) selected MH2695 for QC

Please let me know if you have any questions or problems.
Thank you,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, June 19, 2008 3:04 PM
To: Kramer, Caroline
Subject: FW: Region 8 Case 37402

Caroline: See the following for the SDGs and where possible DATAC's selection for QC. Please note that because this was a confusing login effort we have one SDG (MH2663) that we did not use the lowest alpha numeric number to name the SDG.

Roxy

From: Edwards, Meredith D.
Sent: Thursday, June 19, 2008 12:57 PM
To: DataChem EPA List
Subject: Region 8 Case 37402

Here are the SDG names and then the samples I chose for QC.

MH2599 TM water no QC selected as there is not enough volume.

MH25C5 TM water no QC selected as there is not enough volume.

MH25E8 TM water no QC selected as there is not enough volume.

MH2662 DM water no QC selected as there is not enough volume.

MH2697 DM water no QC selected as there is not enough volume.

MH26C8 DM water no QC selected as there is not enough volume.

MH25F1 TM soil selected MH26C9 for QC.

MH2663 TM soil selected MH2695 for QC also on this SDG I used a higher number to name the SDG. Since there were only 2 samples that didn't change names after receipt it was very confusing.

Thanks

Mere

-----Original Message-----
From: Kramer, Caroline
Sent: Thursday, June 19, 2008 10:47 AM
To: 'Olson, Roxanne'
Subject: RE: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Roxy,
Just let me know as soon as you know which SDG will not have sufficient volume and I will pass it along to the Region for a resolution.
Please let me know if you have any confusion with the spreadsheet of new sample IDs as you are logging them in.
Thanks,

Caroline L. Kramer
ckramer5@fedcsc.com
Computer Sciences Corporation (CSC)
703.818.4248

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-----Original Message-----
From: Olson, Roxanne [mailto:olsonr@datachem.com]
Sent: Thursday, June 19, 2008 10:38 AM
To: Kramer, Caroline
Subject: FW: Region 08 |Case 37402 | Lab DATAC | Issue Multiple | FINAL

Caroline: Another issue with the samples from yesterday as we were logging them in. We have no extra volume for the water samples for QC. Is the case closed or should we expect additional volume from another delivery? We can't even do a reduced volume on the waters as the samplers are delivering the samples in 500 mL bottles instead of the 1000 mL recommended in the SOW. I will let you know which SDGs will not have QC as soon as we complete the login.