



02/10/10

Technical Report for

KRW Consulting, Inc.

1001-02

Accutest Job Number: D10402

Sampling Date: 01/14/10

Report to:

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Total number of pages in report: 118



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

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Test results relate only to samples analyzed.

Gary K. Ward
Laboratory Director

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Sample Summary

KRW Consulting, Inc.

Job No: D10402

1001-02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D10402-1	01/14/10	09:40	01/15/10	SO	Soil	296-7B1A
D10402-1A	01/14/10	09:40	01/15/10	SO	Soil	296-7B1A
D10402-2	01/14/10	11:20	01/15/10	SO	Soil	296-7B1B
D10402-2A	01/14/10	11:20	01/15/10	SO	Soil	296-7B1B
D10402-3	01/14/10	11:50	01/15/10	SO	Soil	296-7FWP
D10402-3A	01/14/10	11:50	01/15/10	SO	Soil	296-7FWP
D10402-4	01/14/10	12:40	01/15/10	SO	Soil	296-7-RP
D10402-4A	01/14/10	12:40	01/15/10	SO	Soil	296-7-RP
D10402-5	01/14/10	13:57	01/15/10	SO	Soil	296-7-CP
D10402-5A	01/14/10	13:57	01/15/10	SO	Soil	296-7-CP
D10402-6	01/14/10	12:15	01/15/10	SO	Soil	296-7B2A
D10402-6A	01/14/10	12:15	01/15/10	SO	Soil	296-7B2A
D10402-7	01/14/10	12:50	01/15/10	SO	Soil	296-7B2B

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary
(continued)

KRW Consulting, Inc.
1001-02

Job No: D10402

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D10402-7A	01/14/10	12:50	01/15/10	SO	Soil	296-7B2B
D10402-8	01/14/10	14:30	01/15/10	SO	Soil	296-7B3A
D10402-8A	01/14/10	14:30	01/15/10	SO	Soil	296-7B3A
D10402-9	01/14/10	14:40	01/15/10	SO	Soil	296-7B3B
D10402-9A	01/14/10	14:40	01/15/10	SO	Soil	296-7B3B
D10402-10	01/14/10	15:20	01/15/10	SO	Soil	296-7SP
D10402-10A	01/14/10	15:20	01/15/10	SO	Soil	296-7SP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: KRW Consulting, Inc.

Job No D10402

Site: 1001-02

Report Dat 2/10/2010 9:38:13 AM

On 01/15/2010, ten (10) samples were received at Accutest Mountain States Laboratories at a temperature of 5.7°C. The samples were intact and properly preserved, unless noted below. An Accutest Job Number of D10402 was assigned to the project. The laboratory sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix SO

Batch ID: OP1314

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Samples D10286-2MS, D10286-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Sample D10402-3 has surrogates outside control limits. Probable cause due to matrix interference.
- OP1314-MSD: One internal standard recovery is below the QC limits.

Volatiles by GC By Method SW846 8015B

Matrix SO

Batch ID: GGB154

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D10402-3MSD, D10402-3MS, and D10402-3MSD were used as the QC samples indicated.
- The matrix spike and matrix spike duplicate (MS/MSD) recoveries of TPH-GRO (C6-C10) are outside control limits. The laboratory control spike (LCS) recovery is within QC limits, proving the analysis is in control.
- Samples D10402-3MS, D10402-3MSD, and D10402-4 have surrogates outside control limits. Outside control limits due to matrix interference.

Matrix SO

Batch ID: GGB157

- The data for SW846 8015B meets quality control requirements.
- Samples D10402-3MS, D10402-3MSD, D10402-4 have surrogates outside control limits. Outside control limits due to matrix interference. The samples were analyzed in duplicate to confirm surrogate recoveries.
- D10402-4: Confirmation run.

Volatiles by GC By Method SW846 8021B

Matrix SO

Batch ID: GTB154

- All samples were analyzed within the recommended method holding time.
- Samples D10402-3MS and D10402-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike and matrix spike duplicate (MS/MSD) recoveries of Benzene, Ethylbenzene, m,p-Xylene, o-Xylene, and Toluene are outside control limits. The laboratory control spike (LCS) recoveries of these analytes are within QC limits, proving the analysis is in control.
- The RPD for the MS and MSD recoveries of Benzene, Ethylbenzene, m,p-Xylene, o-Xylene, and Toluene are outside control limits for sample D10402-3MSD. Probable cause due to sample homogeneity.
- Samples D10402-3MS, D10402-3MSD, and D10402-4 have surrogates outside control limits. Outside control limits due to matrix interference.

Matrix SO

Batch ID: GTB157

- The data for SW846 8021B meets quality control requirements.
- Samples D10402-3MS, D10402-3MSD, D10402-4 have surrogates outside control limits. Outside control limits due to matrix interference. The samples were analyzed in duplicate to confirm surrogate recoveries.
- D10402-4: Confirmation run.

Extractables by GC By Method SW846-8015B

Matrix SO

Batch ID: OP1321

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Samples D10403-4MS and D10403-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ

Batch ID: MP1159

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix SO

Batch ID: MP1168

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D10522-3MS, D10522-3MSD, and D10522-3SDL were used as the QC samples for metals.
- The matrix spike (MS) recovery of Barium is outside control limits. The spike amount is low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The RPD for the MS and MSD recoveries of Barium are outside control limits due to the MS recovery.
- The serial dilution RPDs for Boron, Copper, Lead, and Selenium are outside control limits for sample MP1168-SD1. The percent difference is acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 6020

Matrix SO

Batch ID: MP1111

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D10400-1DUP, D10400-1MS, D10400-1MSD, and D10400-1SDL were used as the QC samples for metals.

Matrix SO

Batch ID: MP1169

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D10522-3MS, D10522-3SDL, D10522-3MSD, and D10522-3DUP were used as the QC samples for metals.
- The duplicate RPD for Arsenic is outside control limits for sample MP1169-D1. The high RPD is due to possible sample nonhomogeneity.

Metals By Method SW846 7471A

Matrix SO

Batch ID: MP1151

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples D10402-3MSD and D10402-3MS were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery of Mercury is outside control limits. The spike amount is low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The RPD for the MS and MSD recoveries of Mercury is outside control limits for sample MP1151-S2. The high RPD is due to possible sample nonhomogeneity.

Wet Chemistry By Method ASTM E1498-76M

Matrix SO

Batch ID: M:GN30926

- The data for ASTM E1498-76M meets quality control requirements.
- The following samples were run outside of holding time for method ASTM E1498-76M: D10402-10, D10402-3, D10402-4, D10402-5
- Redox Potential Vs H2: Analysis performed at Accutest Laboratories, Marlborough, MA.

Wet Chemistry By Method LADNR29B

Matrix SO

Batch ID: R1029

- The data for LADNR29B meets quality control requirements.
- Sodium Adsorption Ratio: Calculated as: $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN2900

- The data for SM19 2540B M meets quality control requirements.

Wet Chemistry By Method SW846 3060/7196A M

Matrix SO

Batch ID: R1058

- Trivalent Chromium, : Calculated as: $(\text{Chromium}) - (\text{Hexavalent Chromium})$

Wet Chemistry By Method SW846 3060A/7196A**Matrix** SO**Batch ID:** M:GP11206

- The data for SW846 3060A/7196A meets quality control requirements.
- Hexavalent Chromium: Analysis performed at Accutest Laboratories, Marlborough, MA.

Wet Chemistry By Method SW846 9045C**Matrix** SO**Batch ID:** GN2907

- The following samples were run outside of holding time for method SW846 9045C: D10402-1, D10402-10, D10402-2, D10402-3, D10402-4, D10402-5, D10402-7, D10402-8, D10402-9, D10402-6

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest Mountain States**Job No** D10402**Site:** KRWCCOL: KRW, Lakewood, CO**Report Date** 1/26/2010 3:50:21 PM

4 Samples were collected on 01/14/2010 and were received at Accutest on 01/15/2010 properly preserved, at 2.7 Deg. C and intact. These Samples received an Accutest job number of D10402. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method ASTM E1498-76M

Matrix SO**Batch ID:** GN30926

- Sample(s) D10403-2CDUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method SW846 3060A/7196A

Matrix SO**Batch ID:** GP11206

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D10404-2BDUP, D10404-2BMS were used as the QC samples for Chromium, Hexavalent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(D10402).



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	296-7B1A		
Lab Sample ID:	D10402-1	Date Sampled:	01/14/10
Matrix:	SO - Soil	Date Received:	01/15/10
		Percent Solids:	82.4
Project:	1001-02		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.8	0.39	mg/kg	1	01/28/10	01/29/10 SES	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA361
(2) Prep QC Batch: MP1169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B1A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-1	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	82.4
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.4		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	281	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	8.99		su	1	01/18/10 08:45	CJ	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B1A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-1A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	82.4
Project:	1001-02		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	26.0	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	5.25	1.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	19.7	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²

- (1) Instrument QC Batch: MA355
(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B1A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-1A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	82.4
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.921		ratio	1	01/27/10 23:06	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B1B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-2	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	90.3
Project:	1001-02		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.0	0.36	mg/kg	1	01/28/10	01/29/10 SES	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA361
(2) Prep QC Batch: MP1169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B1B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-2	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	90.3
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	90.3		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	626	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	8.40		su	1	01/18/10 08:45	CJ	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B1B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-2A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	90.3
Project:	1001-02		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	61.6	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	13.0	1.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	26.3	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²

- (1) Instrument QC Batch: MA355
(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B1B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-2A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	90.3
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.794		ratio	1	01/27/10 23:13	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7FWP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-3	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.8
Method:	SW846 8270C SW846 3540C		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G05293.D	10	01/20/10	TMB	01/18/10	OP1314	E1G160
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	25.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	11000	8400	ug/kg	
208-96-8	Acenaphthylene	ND	11000	9600	ug/kg	
120-12-7	Anthracene	ND	11000	7200	ug/kg	
56-55-3	Benzo(a)anthracene	ND	11000	8400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	11000	7200	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	12000	11000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	11000	7200	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	13000	12000	ug/kg	
218-01-9	Chrysene	ND	13000	12000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	12000	8600	ug/kg	
206-44-0	Fluoranthene	ND	20000	11000	ug/kg	
86-73-7	Fluorene	ND	12000	9600	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	11000	7800	ug/kg	
90-12-0	1-Methylnaphthalene	28400	13000	11000	ug/kg	
91-57-6	2-Methylnaphthalene	138000	11000	8100	ug/kg	
91-20-3	Naphthalene	174000	20000	9600	ug/kg	
85-01-8	Phenanthrene	38800	20000	11000	ug/kg	
129-00-0	Pyrene	ND	12000	11000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	103%		33-130%
321-60-8	2-Fluorobiphenyl	110%		37-130%
1718-51-0	Terphenyl-d14	166% ^a		48-130%

(a) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7FWP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-3	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.8
Method:	SW846 8015B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB3047.D	1	01/18/10	SD	n/a	n/a	GGB154
Run #2							

Run #	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.82	1.2	1.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	13% ^a		60-140%		

(a) Outside control limits due to matrix interference. MS/MSD surrogate recovery confirms low sample surrogate.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7FWP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-3	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.8
Method:	SW846 8021B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB3047.D	1	01/18/10	SD	n/a	n/a	GTB154
Run #2							

Run #	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	ug/kg	
	m,p-Xylene	41.7	12	ug/kg	
95-47-6	o-Xylene	ND	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	-1% ^a		60-140%

(a) Outside control limits due to matrix interference. MS/MSD surrogate recovery confirm low sample surrogate recovery.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7FWP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-3	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.8
Method:	SW846-8015B SW846 3550B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FC1547.D	20	01/20/10	LAC	01/20/10	OP1321	GFC91
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	8.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	92200	1200	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
98-06-6	t-Butylbenzene	74%		39-130%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 296-7FWP

Lab Sample ID: D10402-3

Matrix: SO - Soil

Project: 1001-02

Date Sampled: 01/14/10

Date Received: 01/15/10

Percent Solids: 86.8

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	3.5	0.34	mg/kg	1	01/20/10	01/26/10 SES	SW846 6020 ¹	SW846 3050B ⁶
Barium	6670	18	mg/kg	20	01/28/10	02/03/10 JM	SW846 6010B ⁵	SW846 3050B ⁸
Boron	28.3	4.5	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Cadmium	< 0.91	0.91	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Chromium	50.2	0.91	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Copper	63.9	4.5	mg/kg	10	01/28/10	02/02/10 JM	SW846 6010B ⁴	SW846 3050B ⁸
Lead	19.7	4.5	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Mercury	71.6	9.4	mg/kg	100	01/26/10	01/27/10 CM	SW846 7471A ²	SW846 7471A ⁷
Nickel	16.0	2.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Selenium	< 4.5	4.5	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Silver	< 2.7	2.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Zinc	148	2.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸

(1) Instrument QC Batch: MA350

(2) Instrument QC Batch: MA354

(3) Instrument QC Batch: MA362

(4) Instrument QC Batch: MA370

(5) Instrument QC Batch: MA373

(6) Prep QC Batch: MP1111

(7) Prep QC Batch: MP1151

(8) Prep QC Batch: MP1168

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7FWP
 Lab Sample ID: D10402-3
 Matrix: SO - Soil
 Project: 1001-02

Date Sampled: 01/14/10
 Date Received: 01/15/10
 Percent Solids: 86.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	< 2.3	2.3	mg/kg	1	01/20/10 17:40	AMA	SW846 3060A/7196A
Chromium, Trivalent ^b	49.5	3.2	mg/kg	1	01/30/10 03:17	JM	SW846 3060/7196A M
Redox Potential Vs H2 ^a	125		mv	1	01/19/10	AMA	ASTM E1498-76M
Solids, Percent	86.8		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	5360	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	9.07		su	1	01/18/10 08:45	CJ	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7FWP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-3A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.8
Project:	1001-02		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	40.0	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	3.09	1.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	740	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA355

(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7FWP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-3A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.8
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	30.3		ratio	1	01/27/10 23:21	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7-RP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-4	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	59.6
Method:	SW846 8270C SW846 3540C		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G05295.D	10	01/20/10	TMB	01/18/10	OP1314	E1G160
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	7.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4300	3400	ug/kg	
208-96-8	Acenaphthylene	ND	4300	3900	ug/kg	
120-12-7	Anthracene	ND	4300	2900	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4300	3400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4300	2900	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4700	4300	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4300	2900	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	5500	4700	ug/kg	
218-01-9	Chrysene	ND	5500	4700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4700	3500	ug/kg	
206-44-0	Fluoranthene	ND	8200	4300	ug/kg	
86-73-7	Fluorene	ND	4700	3900	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4300	3200	ug/kg	
90-12-0	1-Methylnaphthalene	ND	5500	4300	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4300	3300	ug/kg	
91-20-3	Naphthalene	ND	8200	3900	ug/kg	
85-01-8	Phenanthrene	13900	8200	4300	ug/kg	
129-00-0	Pyrene	ND	4700	4300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		33-130%
321-60-8	2-Fluorobiphenyl	94%		37-130%
1718-51-0	Terphenyl-d14	104%		48-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7-RP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-4	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	59.6
Method:	SW846 8015B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB3050.D	1	01/18/10	SD	n/a	n/a	GGB154
Run #2 ^a	GB3094.D	1	01/21/10	SD	n/a	n/a	GGB157

Run #	Initial Weight
Run #1	1.0 g
Run #2	1.0 g

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.7	1.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	31% ^c	30% ^b	60-140%

(a) Confirmation run.

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7-RP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-4	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	59.6
Method:	SW846 8021B		
Project:	1001-02		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB3050.D	1	01/18/10	SD	n/a	n/a	GTB154
Run #2 ^a	TB3094.D	1	01/21/10	SD	n/a	n/a	GTB157

	Initial Weight
Run #1	1.0 g
Run #2	1.0 g

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	8.4	ug/kg	
108-88-3	Toluene	ND	17	ug/kg	
100-41-4	Ethylbenzene	ND	17	ug/kg	
	m,p-Xylene	ND	17	ug/kg	
95-47-6	o-Xylene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	6% ^c	4% ^b	60-140%

(a) Confirmation run.

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

(c) Outside control limits due to matrix interference.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7-RP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-4	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	59.6
Method:	SW846-8015B SW846 3550B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FC1548.D	20	01/20/10	LAC	01/20/10	OP1321	GFC91
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	172000	2200	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
98-06-6	t-Butylbenzene	69%		39-130%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 296-7-RP
 Lab Sample ID: D10402-4
 Matrix: SO - Soil
 Project: 1001-02

Date Sampled: 01/14/10
 Date Received: 01/15/10
 Percent Solids: 59.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	3.6	0.55	mg/kg	1	01/20/10	01/27/10 SES	SW846 6020 ¹	SW846 3050B ⁶
Barium	14200	120	mg/kg	100	01/28/10	02/08/10 JM	SW846 6010B ⁵	SW846 3050B ⁸
Boron	24.2	6.1	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Cadmium	< 1.2	1.2	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Chromium	30.5	1.2	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Copper	34.3	6.1	mg/kg	10	01/28/10	02/02/10 JM	SW846 6010B ⁴	SW846 3050B ⁸
Lead	12.0	6.1	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Mercury	1.8	0.37	mg/kg	10	01/26/10	01/27/10 CM	SW846 7471A ²	SW846 7471A ⁷
Nickel	12.5	3.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Selenium	< 6.1	6.1	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Silver	< 3.7	3.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Zinc	43.7	3.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸

- (1) Instrument QC Batch: MA353
 (2) Instrument QC Batch: MA354
 (3) Instrument QC Batch: MA362
 (4) Instrument QC Batch: MA370
 (5) Instrument QC Batch: MA380
 (6) Prep QC Batch: MP1111
 (7) Prep QC Batch: MP1151
 (8) Prep QC Batch: MP1168

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7-RP
 Lab Sample ID: D10402-4
 Matrix: SO - Soil
 Project: 1001-02

Date Sampled: 01/14/10
 Date Received: 01/15/10
 Percent Solids: 59.6

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	< 2.1	2.1	mg/kg	1	01/20/10 17:40	AMA	SW846 3060A/7196A
Chromium, Trivalent ^b	29.7	3.3	mg/kg	1	01/30/10 03:24	JM	SW846 3060/7196A M
Redox Potential Vs H2 ^a	261		mv	1	01/19/10	AMA	ASTM E1498-76M
Solids, Percent	59.6		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	2300	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	9.23		su	1	01/18/10 08:45	CJ	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7-RP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-4A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	59.6
Project:	1001-02		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	18.6	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	2.08	1.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	443	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA355

(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7-RP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-4A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	59.6
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	26.0		ratio	1	01/27/10 23:28	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7-CP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-5	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	87.4
Method:	SW846 8270C SW846 3540C		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G05294.D	10	01/20/10	TMB	01/18/10	OP1314	E1G160
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	840	660	ug/kg	
208-96-8	Acenaphthylene	ND	840	760	ug/kg	
120-12-7	Anthracene	ND	840	570	ug/kg	
56-55-3	Benzo(a)anthracene	ND	840	660	ug/kg	
50-32-8	Benzo(a)pyrene	ND	840	570	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	920	840	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	840	570	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1100	920	ug/kg	
218-01-9	Chrysene	ND	1100	920	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	920	690	ug/kg	
206-44-0	Fluoranthene	ND	1600	840	ug/kg	
86-73-7	Fluorene	ND	920	760	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	840	620	ug/kg	
90-12-0	1-Methylnaphthalene	ND	1100	840	ug/kg	
91-57-6	2-Methylnaphthalene	843	840	640	ug/kg	
91-20-3	Naphthalene	ND	1600	760	ug/kg	
85-01-8	Phenanthrene	ND	1600	840	ug/kg	
129-00-0	Pyrene	ND	920	840	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		33-130%
321-60-8	2-Fluorobiphenyl	92%		37-130%
1718-51-0	Terphenyl-d14	121%		48-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7-CP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-5	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	87.4
Method:	SW846 8015B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB3051.D	1	01/18/10	SD	n/a	n/a	GGB154
Run #2							

Run #	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.1	1.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	89%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7-CP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-5	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	87.4
Method:	SW846 8021B		
Project:	1001-02		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB3051.D	1	01/18/10	SD	n/a	n/a	GTB154
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.7	ug/kg	
108-88-3	Toluene	ND	11	ug/kg	
100-41-4	Ethylbenzene	ND	11	ug/kg	
	m,p-Xylene	ND	11	ug/kg	
95-47-6	o-Xylene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	88%		60-140%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7-CP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-5	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	87.4
Method:	SW846-8015B SW846 3550B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FC1549.D	10	01/20/10	LAC	01/20/10	OP1321	GFC91
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	946	150	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
98-06-6	t-Butylbenzene	49%		39-130%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 296-7-CP
 Lab Sample ID: D10402-5
 Matrix: SO - Soil
 Project: 1001-02

Date Sampled: 01/14/10
 Date Received: 01/15/10
 Percent Solids: 87.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analized By	Method	Prep Method
Arsenic	15.1	0.37	mg/kg	1	01/20/10	01/27/10 SES	SW846 6020 ¹	SW846 3050B ⁶
Barium	3640	18	mg/kg	20	01/28/10	02/03/10 JM	SW846 6010B ⁵	SW846 3050B ⁸
Boron	11.6	4.4	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Cadmium	< 0.89	0.89	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Chromium	11.0	0.89	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Copper	29.2	4.4	mg/kg	10	01/28/10	02/02/10 JM	SW846 6010B ⁴	SW846 3050B ⁸
Lead	16.4	4.4	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Mercury	< 0.097	0.097	mg/kg	1	01/26/10	01/27/10 CM	SW846 7471A ²	SW846 7471A ⁷
Nickel	12.5	2.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Selenium	< 4.4	4.4	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Silver	< 2.7	2.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Zinc	52.4	2.7	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸

- (1) Instrument QC Batch: MA353
 (2) Instrument QC Batch: MA354
 (3) Instrument QC Batch: MA362
 (4) Instrument QC Batch: MA370
 (5) Instrument QC Batch: MA373
 (6) Prep QC Batch: MP1111
 (7) Prep QC Batch: MP1151
 (8) Prep QC Batch: MP1168

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7-CP
 Lab Sample ID: D10402-5
 Matrix: SO - Soil
 Project: 1001-02

Date Sampled: 01/14/10
 Date Received: 01/15/10
 Percent Solids: 87.4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	< 2.2	2.2	mg/kg	1	01/20/10 17:40	AMA	SW846 3060A/7196A
Chromium, Trivalent ^b	10.5	3.1	mg/kg	1	01/30/10 03:31	JM	SW846 3060/7196A M
Redox Potential Vs H2 ^a	331		mv	1	01/19/10	AMA	ASTM E1498-76M
Solids, Percent	87.4		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	7180	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	8.39		su	1	01/18/10 08:45	CJ	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7-CP
Lab Sample ID: D10402-5A
Matrix: SO - Soil
Project: 1001-02

Date Sampled: 01/14/10
Date Received: 01/15/10
Percent Solids: 87.4

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	190	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	48.2	1.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	1400	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA355

(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7-CP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-5A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	87.4
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	23.5		ratio	1	01/27/10 23:35	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B2A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-6	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	85.3
Project:	1001-02		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.5	0.37	mg/kg	1	01/28/10	01/29/10 SES	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA361
(2) Prep QC Batch: MP1169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B2A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-6	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	85.3
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.3		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	495	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	7.79		su	1	01/18/10 08:45	CJ	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7B2A
Lab Sample ID: D10402-6A
Matrix: SO - Soil
Project: 1001-02

Date Sampled: 01/14/10
Date Received: 01/15/10
Percent Solids: 85.3

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	41.9	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	9.79	1.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	30.9	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA355

(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B2A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-6A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	85.3
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	1.12		ratio	1	01/27/10 23:46	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B2B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-7	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.4
Project:	1001-02		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	16.0	0.38	mg/kg	1	01/28/10	01/31/10 SES	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA364
(2) Prep QC Batch: MP1169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B2B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-7	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.4
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.4		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	1440	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	9.40		su	1	01/18/10 08:45	CJ	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B2B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-7A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.4
Project:	1001-02		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	50.7	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	17.5	1.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	222	2.0	mg/l	1	01/26/10	01/27/10 JM	SW846 6010B ¹	SW846 3010A ²

- (1) Instrument QC Batch: MA355
(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B2B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-7A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.4
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	6.85		ratio	1	01/27/10 23:53	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B3A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-8	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.5
Project:	1001-02		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.2	0.36	mg/kg	1	01/28/10	01/29/10 SES	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA361
(2) Prep QC Batch: MP1169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B3A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-8	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.5
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.5		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	230	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	8.93		su	1	01/18/10 08:45	CJ	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B3A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-8A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.5
Project:	1001-02		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	27.6	2.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ¹	SW846 3010A ²
Magnesium	6.55	1.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ¹	SW846 3010A ²
Sodium	5.47	2.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ¹	SW846 3010A ²

- (1) Instrument QC Batch: MA355
(2) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B3A	Date Sampled:	01/14/10
Lab Sample ID:	D10402-8A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	86.5
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.243		ratio	1	01/28/10 00:01	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B3B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-9	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	85.2
Project:	1001-02		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.3	0.36	mg/kg	1	01/28/10	01/29/10 SES	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA361
(2) Prep QC Batch: MP1169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B3B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-9	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	85.2
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.2		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	503	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	9.22		su	1	01/18/10 08:45	CJ	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7B3B
Lab Sample ID: D10402-9A
Matrix: SO - Soil
Project: 1001-02

Date Sampled: 01/14/10
Date Received: 01/15/10
Percent Solids: 85.2

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	21.9	2.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ¹	SW846 3010A ³
Magnesium	8.55	1.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ²	SW846 3010A ³
Sodium	41.5	2.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA355

(2) Instrument QC Batch: MA359

(3) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7B3B	Date Sampled:	01/14/10
Lab Sample ID:	D10402-9A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	85.2
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	1.90		ratio	1	01/28/10 20:36	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7SP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-10	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	80.9
Method:	SW846 8270C SW846 3540C		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G05288.D	10	01/20/10	TMB	01/18/10	OP1314	E1G160
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	450	360	ug/kg	
208-96-8	Acenaphthylene	ND	450	410	ug/kg	
120-12-7	Anthracene	ND	450	310	ug/kg	
56-55-3	Benzo(a)anthracene	ND	450	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	450	310	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	490	450	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	450	310	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	580	490	ug/kg	
218-01-9	Chrysene	ND	580	490	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	490	370	ug/kg	
206-44-0	Fluoranthene	ND	870	450	ug/kg	
86-73-7	Fluorene	ND	490	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	450	330	ug/kg	
90-12-0	1-Methylnaphthalene	622	580	450	ug/kg	
91-57-6	2-Methylnaphthalene	1110	450	350	ug/kg	
91-20-3	Naphthalene	571	870	410	ug/kg	J
85-01-8	Phenanthrene	ND	870	450	ug/kg	
129-00-0	Pyrene	ND	490	450	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		33-130%
321-60-8	2-Fluorobiphenyl	83%		37-130%
1718-51-0	Terphenyl-d14	113%		48-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7SP						
Lab Sample ID:	D10402-10				Date Sampled:	01/14/10	
Matrix:	SO - Soil				Date Received:	01/15/10	
Method:	SW846 8015B				Percent Solids:	80.9	
Project:	1001-02						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB3052.D	1	01/18/10	SD	n/a	n/a	GGB154
Run #2							

	Initial Weight
Run #1	1.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.2	1.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	102%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7SP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-10	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	80.9
Method:	SW846 8021B		
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TB3052.D	1	01/18/10	SD	n/a	n/a	GTB154
Run #2							

Run #	Initial Weight
Run #1	1.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	6.2	ug/kg	
108-88-3	Toluene	ND	12	ug/kg	
100-41-4	Ethylbenzene	ND	12	ug/kg	
	m,p-Xylene	ND	12	ug/kg	
95-47-6	o-Xylene	ND	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	101%		60-140%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7SP		
Lab Sample ID:	D10402-10	Date Sampled:	01/14/10
Matrix:	SO - Soil	Date Received:	01/15/10
Method:	SW846-8015B SW846 3550B	Percent Solids:	80.9
Project:	1001-02		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FC1550.D	20	01/20/10	LAC	01/20/10	OP1321	GFC91
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	491	330	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
98-06-6	t-Butylbenzene	54%		39-130%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	296-7SP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-10	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	80.9
Project:	1001-02		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.5	0.36	mg/kg	1	01/20/10	01/27/10 SES	SW846 6020 ¹	SW846 3050B ⁶
Barium	4820	19	mg/kg	20	01/28/10	02/03/10 JM	SW846 6010B ⁵	SW846 3050B ⁸
Boron	5.2	4.8	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Cadmium	< 0.97	0.97	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Chromium	14.7	0.97	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Copper	13.5	4.8	mg/kg	10	01/28/10	02/02/10 JM	SW846 6010B ⁴	SW846 3050B ⁸
Lead	15.4	4.8	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Mercury	< 0.098	0.098	mg/kg	1	01/26/10	01/27/10 CM	SW846 7471A ²	SW846 7471A ⁷
Nickel	10.5	2.9	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Selenium	< 4.8	4.8	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Silver	< 2.9	2.9	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸
Zinc	36.3	2.9	mg/kg	1	01/28/10	01/30/10 JM	SW846 6010B ³	SW846 3050B ⁸

- (1) Instrument QC Batch: MA353
 (2) Instrument QC Batch: MA354
 (3) Instrument QC Batch: MA362
 (4) Instrument QC Batch: MA370
 (5) Instrument QC Batch: MA373
 (6) Prep QC Batch: MP1111
 (7) Prep QC Batch: MP1151
 (8) Prep QC Batch: MP1168

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7SP
 Lab Sample ID: D10402-10
 Matrix: SO - Soil
 Project: 1001-02

Date Sampled: 01/14/10
 Date Received: 01/15/10
 Percent Solids: 80.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	< 2.4	2.4	mg/kg	1	01/20/10 17:40	AMA	SW846 3060A/7196A
Chromium, Trivalent ^b	13.9	3.4	mg/kg	1	01/30/10 03:38	JM	SW846 3060/7196A M
Redox Potential Vs H2 ^a	323		mv	1	01/19/10	AMA	ASTM E1498-76M
Solids, Percent	80.9		%	1	01/18/10	SWT	SM19 2540B M
Specific Conductivity	2970	1.0	umhos/cm	1	01/22/10	JD	DEPT.OF AG, BOOK N9
pH	9.24		su	1	01/18/10 08:45	CJ	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Marlborough, MA.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID: 296-7SP
Lab Sample ID: D10402-10A
Matrix: SO - Soil
Project: 1001-02

Date Sampled: 01/14/10
Date Received: 01/15/10
Percent Solids: 80.9

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	153	2.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ¹	SW846 3010A ³
Magnesium	18.4	1.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ²	SW846 3010A ³
Sodium	450	2.0	mg/l	1	01/26/10	01/28/10 JM	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA355

(2) Instrument QC Batch: MA359

(3) Prep QC Batch: MP1159

RL = Reporting Limit

Report of Analysis

Client Sample ID:	296-7SP	Date Sampled:	01/14/10
Lab Sample ID:	D10402-10A	Date Received:	01/15/10
Matrix:	SO - Soil	Percent Solids:	80.9
Project:	1001-02		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	9.14		ratio	1	01/28/10 20:59	JM	LADNR29B

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Patty McClellan

From: Gregory Knell [GKnell@krwconsulting.com]
Sent: Tuesday, January 19, 2010 10:28 AM
To: Patty McClellan
Subject: Samples submitted Friday, Jan 15

Hi Patty,

Three coolers of samples from 2 different projects were submitted last Friday. For sample numbers starting with '296-7' can you PLEASE add the project number 1001-02 on the chain of custody. For the chain of custody regarding sample numbers starting with '297-15' please add the project number 1001-05. This will greatly aid us in invoicing the client, as the sampler (that's me) did not have project numbers in the field last week.

Thank you,
Greg Knell

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D10402: Chain of Custody
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GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1314-MB	1G05272.D	1	01/19/10	TMB	01/18/10	OP1314	E1G160

The QC reported here applies to the following samples:

Method: SW846 8270C

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	37	29	ug/kg	
208-96-8	Acenaphthylene	ND	37	33	ug/kg	
120-12-7	Anthracene	ND	37	25	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	29	ug/kg	
50-32-8	Benzo(a)pyrene	ND	37	25	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	40	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	37	25	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	47	40	ug/kg	
218-01-9	Chrysene	ND	47	40	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	40	30	ug/kg	
206-44-0	Fluoranthene	ND	70	37	ug/kg	
86-73-7	Fluorene	ND	40	33	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	27	ug/kg	
90-12-0	1-Methylnaphthalene	ND	47	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	37	28	ug/kg	
91-20-3	Naphthalene	ND	70	33	ug/kg	
85-01-8	Phenanthrene	ND	70	37	ug/kg	
129-00-0	Pyrene	ND	40	37	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	64% 26-130%
4165-62-2	Phenol-d5	67% 47-130%
118-79-6	2,4,6-Tribromophenol	84% 50-130%
4165-60-0	Nitrobenzene-d5	57% 33-130%
321-60-8	2-Fluorobiphenyl	58% 37-130%
1718-51-0	Terphenyl-d14	84% 48-130%

Blank Spike Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1314-BS	1G05273.D	1	01/19/10	TMB	01/18/10	OP1314	E1G160

The QC reported here applies to the following samples:

Method: SW846 8270C

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	3330	3000	90	54-130
208-96-8	Acenaphthylene	3330	3100	93	53-130
120-12-7	Anthracene	3330	3040	91	54-130
56-55-3	Benzo(a)anthracene	3330	3020	91	52-130
50-32-8	Benzo(a)pyrene	3330	2980	89	56-130
205-99-2	Benzo(b)fluoranthene	3330	3100	93	58-130
191-24-2	Benzo(g,h,i)perylene	3330	2670	80	46-130
207-08-9	Benzo(k)fluoranthene	3330	2990	90	53-130
218-01-9	Chrysene	3330	2970	89	51-130
53-70-3	Dibenzo(a,h)anthracene	3330	2800	84	48-130
206-44-0	Fluoranthene	3330	2590	78	50-130
86-73-7	Fluorene	3330	2950	89	59-130
193-39-5	Indeno(1,2,3-cd)pyrene	3330	2910	87	48-134
90-12-0	1-Methylnaphthalene	3330	2460	74	43-130
91-57-6	2-Methylnaphthalene	3330	2810	84	40-130
91-20-3	Naphthalene	3330	2570	77	37-130
85-01-8	Phenanthrene	3330	2910	87	57-130
129-00-0	Pyrene	3330	3300	99	54-130

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	56%	26-130%
4165-62-2	Phenol-d5	65%	47-130%
118-79-6	2,4,6-Tribromophenol	89%	50-130%
4165-60-0	Nitrobenzene-d5	65%	33-130%
321-60-8	2-Fluorobiphenyl	74%	37-130%
1718-51-0	Terphenyl-d14	85%	48-130%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1314-MS	1G05276.D	1	01/19/10	TMB	01/18/10	OP1314	E1G160
OP1314-MSD ^a	1G05277.D	1	01/19/10	TMB	01/18/10	OP1314	E1G160
D10286-2	1G05275.D	1	01/19/10	TMB	01/18/10	OP1314	E1G160

The QC reported here applies to the following samples:

Method: SW846 8270C

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	D10286-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		3560	3380	95	3340	94	1	54-130/30
208-96-8	Acenaphthylene	ND		3560	3570	100	3480	98	3	53-130/30
120-12-7	Anthracene	ND		3560	3450	97	3340	94	3	54-130/30
56-55-3	Benzo(a)anthracene	ND		3560	3630	102	3460	97	5	52-130/30
50-32-8	Benzo(a)pyrene	ND		3560	3450	97	3350	94	3	56-130/30
205-99-2	Benzo(b)fluoranthene	ND		3560	3700	104	3760	106	2	58-130/30
191-24-2	Benzo(g,h,i)perylene	ND		3560	3440	97	3260	92	5	46-130/30
207-08-9	Benzo(k)fluoranthene	ND		3560	3520	99	3070	86	14	53-130/30
218-01-9	Chrysene	ND		3560	3500	98	3290	92	6	51-130/30
53-70-3	Dibenzo(a,h)anthracene	ND		3560	3560	100	3320	93	7	48-130/30
206-44-0	Fluoranthene	ND		3560	2770	78	2950	83	6	50-130/30
86-73-7	Fluorene	ND		3560	3380	95	3520	99	4	59-130/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		3560	3620	102	3470	98	4	48-134/30
90-12-0	1-Methylnaphthalene	ND		3560	2900	82	3130	88	8	43-140/30
91-57-6	2-Methylnaphthalene	ND		3560	3360	94	3500	98	4	40-140/30
91-20-3	Naphthalene	ND		3560	3140	88	3210	90	2	37-140/30
85-01-8	Phenanthrene	ND		3560	3380	95	3220	91	5	57-130/30
129-00-0	Pyrene	ND		3560	3960	111	3730	105	6	54-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D10286-2	Limits
367-12-4	2-Fluorophenol	64%	63%	69%	26-130%
4165-62-2	Phenol-d5	72%	73%	84%	47-130%
118-79-6	2,4,6-Tribromophenol	91%	99%	87%	50-130%
4165-60-0	Nitrobenzene-d5	76%	78%	75%	33-130%
321-60-8	2-Fluorobiphenyl	80%	74%	78%	37-130%
1718-51-0	Terphenyl-d14	97%	93%	93%	48-130%

(a) One ISTD recovery is below the QC limits.



GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB154-MB	GB3045.D	1	01/18/10	SD	n/a	n/a	GGB154

The QC reported here applies to the following samples:

Method: SW846 8015B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	1.0	1.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	114% 60-140%

Method Blank Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB154-MB	TB3045.D	1	01/18/10	SD	n/a	n/a	GTB154

The QC reported here applies to the following samples:

Method: SW846 8021B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	10	ug/kg	
108-88-3	Toluene	ND	10	ug/kg	
95-47-6	o-Xylene	ND	10	ug/kg	
	m,p-Xylene	ND	10	ug/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	113% 60-140%

Blank Spike Summary

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB154-BS	GB3046.D	1	01/18/10	SD	n/a	n/a	GGB154

The QC reported here applies to the following samples: Method: SW846 8015B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	11	11.1	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	125%	60-140%

Blank Spike Summary

Page 1 of 1

Job Number: D10402

Account: KRWCCOL KRW Consulting, Inc.

Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GTB154-BS	TB3046.D	1	01/18/10	SD	n/a	n/a	GTB154

The QC reported here applies to the following samples:

Method: SW846 8021B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	136	130	96	70-130
100-41-4	Ethylbenzene	228	213	93	70-130
108-88-3	Toluene	1060	1010	95	70-130
95-47-6	o-Xylene	330	326	99	70-130
	m,p-Xylene	750	734	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	119%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D10402-3MS	GB3048.D	1	01/18/10	SD	n/a	n/a	GGB154
D10402-3MSD	GB3049.D	1	01/18/10	SD	n/a	n/a	GGB154
D10402-3	GB3047.D	1	01/18/10	SD	n/a	n/a	GGB154

The QC reported here applies to the following samples:

Method: SW846 8015B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	D10402-3 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD	
	TPH-GRO (C6-C10)	2.82		12.7	3.98	9* a	4.52	13* a	13	62-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D10402-3	Limits
120-82-1	1,2,4-Trichlorobenzene	11%* a	11%* a	13%* b	60-140%

(a) Outside control limits due to matrix interference.

(b) Outside control limits due to matrix interference. MS/MSD surrogate recovery confirms low sample surrogate.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D10402-3MS	TB3048.D	1	01/18/10	SD	n/a	n/a	GTB154
D10402-3MSD	TB3049.D	1	01/18/10	SD	n/a	n/a	GTB154
D10402-3	TB3047.D	1	01/18/10	SD	n/a	n/a	GTB154

The QC reported here applies to the following samples:

Method: SW846 8021B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	D10402-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		157	43.1	28* a	62.0	40* a	36* a	70-130/30
100-41-4	Ethylbenzene	ND		263	20.1	8* a	38.9	15* a	64* a	62-130/30
108-88-3	Toluene	ND		1220	161	13* a	283	23* a	55* a	70-130/30
95-47-6	o-Xylene	ND		380	33.2	9* a	57.3	15* a	53* a	65-135/30
	m,p-Xylene	41.7		864	95.3	6* a	151	13* a	45* a	60-140/30

CAS No.	Surrogate Recoveries	MS	MSD	D10402-3	Limits
120-82-1	1,2,4-Trichlorobenzene	-4%* a	-4%* a	-1%* b	60-140%

(a) Outside control limits due to matrix interference.

(b) Outside control limits due to matrix interference. MS/MSD surrogate recovery confirm low sample surrogate recovery.



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1321-MB	FC1532.D	1	01/20/10	LAC	01/20/10	OP1321	GFC91

The QC reported here applies to the following samples:

Method: SW846-8015B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	13	mg/kg	

CAS No.	Surrogate Recoveries	Limits
98-06-6	t-Butylbenzene	48% 39-130%

Blank Spike Summary

Page 1 of 1

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1321-BS	FC1533.D	1	01/20/10	LAC	01/20/10	OP1321	GFC91

The QC reported here applies to the following samples:

Method: SW846-8015B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	592	89	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
98-06-6	t-Butylbenzene	70%	39-130%

7.2.1

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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D10402
Account: KRWCCOL KRW Consulting, Inc.
Project: 1001-02

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1321-MS	FC1537.D	1	01/20/10	LAC	01/20/10	OP1321	GFC91
OP1321-MSD	FC1538.D	1	01/20/10	LAC	01/20/10	OP1321	GFC91
D10403-4	FC1536.D	1	01/20/10	LAC	01/20/10	OP1321	GFC91

The QC reported here applies to the following samples: Method: SW846-8015B

D10402-3, D10402-4, D10402-5, D10402-10

CAS No.	Compound	D10403-4 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	1570		764	2190	81	2190	81	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D10403-4	Limits
98-06-6	t-Butylbenzene	114%	98%	91%	39-130%



Metals Analysis

QC Data Summaries



Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1111
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 01/20/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.24	.89		
Antimony	0.20	.001	.045		
Arsenic	0.40	.058	.26	-0.096	<0.40
Barium	1.0	.0063	.17		
Beryllium	0.10	.0042	.014		
Boron	20	.61	2		
Cadmium	0.050	.012	.048		
Calcium	200	2.6	6.1		
Chromium	1.0	.063	.23		
Cobalt	0.10	.00085	.088		
Copper	1.0	.0045	.14		
Iron	20	2.1	6.1		
Lead	0.25	.0013	.18		
Magnesium	50	.096	1.3		
Manganese	0.50	.0026	.089		
Molybdenum	0.50	.0068	.2		
Nickel	1.0	.0037	.074		
Phosphorus	30	4.2	5.6		
Potassium	100	4.3	9.1		
Selenium	0.20	.072	.14		
Silver	0.050	.0013	.029		
Sodium	250	.25	1.8		
Strontium	10	.0061	.047		
Thallium	0.10	.0007	.071		
Tin	5.0	.0025	.17		
Titanium	1.0	.03	.071		
Uranium	0.25	.0005	.12		
Vanadium	2.0	.042	.99		
Zinc	5.0	.017	.53		

Associated samples MP1111: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1111
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date:

01/20/10

01/20/10

	D10400-1			QC	D10400-1		Spikelot		QC
Metal	Original	DUP	RPD	Limits	Original	MS	MPICPR1	% Rec	Limits
Aluminum									
Antimony									
Arsenic	21.1	25.3	18.1	0-20	21.1	431	398	103.1	60-119
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Phosphorus									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Uranium									
Vanadium									
Zinc									

Associated samples MP1111: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1111 Methods: SW846 6020
Matrix Type: SOLID Units: mg/kg

Prep Date: 01/20/10

Metal	D10400-1 Original	MSD	Spikelot MPICPR1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	21.1	433	398	103.6	0.5	20
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP1111: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

Methods: SW846 6020
Units: mg/kg

Metal	LCS Result	Spikelot MPLCD064	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	154	158	97.5	82-118
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1111
Matrix Type: SOLID

Methods: SW846 6020
Units: ug/l

Prep Date: 01/20/10

Metal	D10400-1		QC	
	Original	SDL 1:5	%DIF	Limits
Aluminum				
Antimony				
Arsenic	27.2	26.4	2.8	0-10
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP1111: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1151
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 01/26/10 01/26/10

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Mercury	0.091	.00095	.0011	0.00063	<0.10	-0.00063	<0.091

Associated samples MP1151: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
 Account: KRWCCOL - KRW Consulting, Inc.
 Project: 1001-02

QC Batch ID: MP1151
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 01/26/10

Metal	D10402-3 Original MS	Spikelot HGWSR1	% Rec	QC Limits
-------	-------------------------	--------------------	-------	--------------

Mercury 71.6 46.1 0.419 -6086.8a 85-115

Associated samples MP1151: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

8.2.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
 Account: KRWCCOL - KRW Consulting, Inc.
 Project: 1001-02

QC Batch ID: MP1151
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 01/26/10

Metal	D10402-3 Original MSD	Spikelot HGWSR1	% Rec	MSD RPD	QC Limit
-------	--------------------------	--------------------	-------	------------	-------------

Mercury 71.6 59.0 0.427 -2952.9a 24.5 (b) 20

Associated samples MP1151: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

(b) High RPD due to possible sample nonhomogeneity.

8.2.2

8

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

Methods: SW846 7471A
Units: mg/kg

Prep Date: 01/26/10

Metal	LCS Result	Spikelot HGLCD064 % Rec	QC Limits
Mercury	7.1	7.34	96.7 72-128

Associated samples MP1151: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1159
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date: 01/26/10

Metal	RL	IDL	MDL	MB raw	final
Antimony	150	68	65		
Arsenic	130	35	33		
Barium	50	1	12		
Beryllium	50	17	22		
Boron	250	17	93		
Cadmium	50	3.7	6		
Calcium	2000	9	46	13.5	<2000
Chromium	50	3	8		
Cobalt	25	3	1.5		
Copper	25	9	14		
Iron	350	28	50		
Lead	250	17	16		
Lithium	10		8		
Magnesium	1000	3.1	62	-22	<1000
Manganese	25	.5	3.5		
Molybdenum	50	7.5	6		
Nickel	150	4.1	3		
Phosphorus	500	230	270		
Potassium	5000	57	2700		
Selenium	250	25	36		
Silver	150	1.5	1.5		
Sodium	2000	17	110	105	<2000
Strontium	25		17		
Thallium	50	7	11		
Tin	250	13	22		
Titanium	50	.65	3.5		
Uranium	250	22	20		
Vanadium	50	3.4	1.5		
Zinc	150	2.6	8.5		

Associated samples MP1159: D10402-1A, D10402-2A, D10402-3A, D10402-4A, D10402-5A, D10402-6A, D10402-7A, D10402-8A, D10402-9A, D10402-10A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1159
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date: 01/26/10

01/26/10

Metal	BSP Result	Spikelot MPICPR1	% Rec	QC Limits	BSD Result	Spikelot MPICPR1	% Rec	BSD RPD	QC Limit
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium	48800	50000	97.6	80-120	49200	50000	98.4	0.8	
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Lithium									
Magnesium	45900	50000	91.8	80-120	46500	50000	93.0	1.3	
Manganese									
Molybdenum									
Nickel									
Phosphorus									
Potassium									
Selenium									
Silver									
Sodium	46400	50000	92.8	80-120	46600	50000	93.2	0.4	
Strontium									
Thallium									
Tin									
Titanium									
Uranium									
Vanadium									
Zinc									

Associated samples MP1159: D10402-1A, D10402-2A, D10402-3A, D10402-4A, D10402-5A, D10402-6A, D10402-7A, D10402-8A, D10402-9A, D10402-10A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1168
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 01/28/10

Metal	RL	IDL	MDL	MB raw	final
Antimony	3.0	1.4	.5		
Arsenic	2.5	.7	.72		
Barium	1.0	.02	.05	0.59	<1.0
Beryllium	1.0	.33	.21		
Boron	5.0	.33	.91	0.40	<5.0
Cadmium	1.0	.073	.12	0.030	<1.0
Calcium	40	.18	2.7		
Chromium	1.0	.06	.18	0.070	<1.0
Cobalt	0.50	.059	.058		
Copper	0.50	.18	.38	0.29	<0.50
Iron	7.0	.55	.91		
Lead	5.0	.33	.24	-0.93	<5.0
Lithium	0.20		.09		
Magnesium	20	.061	.93		
Manganese	0.50	.01	.028		
Molybdenum	1.0	.15	.16		
Nickel	3.0	.081	.075	0.010	<3.0
Phosphorus	10	4.7	3.5		
Potassium	200	1.1	130		
Selenium	5.0	.5	.54	-0.15	<5.0
Silicon	5.0	.96	.68		
Silver	3.0	.03	.068	-0.14	<3.0
Sodium	40	.34	6.3		
Strontium	5.0		.02		
Thallium	1.0	.14	.21		
Tin	5.0	.26	.56		
Titanium	1.0	.013	.041		
Uranium	5.0	.43	.53		
Vanadium	1.0	.067	.034		
Zinc	3.0	.051	.49	2.0	<15

Associated samples MP1168: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1168
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 01/28/10

Metal	D10522-3 Original MS		Spikelot MPICPR1	% Rec	QC Limits
Antimony					
Arsenic	anr				
Barium	4990	7740	477	576.6(a)	75-125
Beryllium					
Boron	4.6	170	191	87.2	75-125
Cadmium	0.0	16.8	19.1	88.1	75-125
Calcium					
Chromium	7.6	180	191	90.4	75-125
Cobalt					
Copper	12.4	178	191	86.6	75-125
Iron					
Lead	12.1	195	191	95.9	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	10	179	191	88.6	75-125
Phosphorus	anr				
Potassium	anr				
Selenium	1.4	180	191	93.6	75-125
Silicon					
Silver	0.0	16.3	19.1	85.4	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	36.4	221	191	96.8	75-125

Associated samples MP1168: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1168
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

8.4.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1168
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 01/28/10

Metal	D10522-3 Original	MSD	Spikelet MPICPR1	% Rec	MSD RPD	QC Limit
Antimony						
Arsenic	anr					
Barium	4990	4830	432	-37.0(a)	46.3	20
Beryllium						
Boron	4.6	143	173	80.6	17.3	20
Cadmium	0.0	14.9	17.3	86.2	12.0	20
Calcium						
Chromium	7.6	156	173	85.8	14.3	20
Cobalt						
Copper	12.4	152	173	80.5	15.8	20
Iron						
Lead	12.1	168	173	90.1	14.9	20
Lithium						
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	10	156	173	84.4	13.7	20
Phosphorus	anr					
Potassium	anr					
Selenium	1.4	151	173	86.5	17.5	20
Silicon						
Silver	0.0	14.4	17.3	83.3	12.4	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	36.4	197	173	92.9	11.5	20

Associated samples MP1168: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1168
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

Metal

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

8.4.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D10402

Account: KRWCCOL - KRW Consulting, Inc.

Project: 1001-02

QC Batch ID: MP1168

Methods: SW846 6010B

Matrix Type: SOLID

Units: mg/kg

Prep Date:

01/28/10

Metal	LCS Result	Spikelot MPLCD064	% Rec	QC Limits
Antimony				
Arsenic	anr			
Barium	303	348	87.1	81-119
Beryllium				
Boron	121	136	89.0	73-126
Cadmium	163	187	87.2	82-118
Calcium				
Chromium	77.3	89.5	86.4	79-121
Cobalt				
Copper	115	129	89.1	84-117
Iron				
Lead	158	172	91.9	79-120
Lithium				
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	87.5	99	88.4	81-119
Phosphorus				
Potassium	anr			
Selenium	138	148	93.2	78-121
Silicon				
Silver	61.5	66	93.2	66-134
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	349	394	88.6	80-119

Associated samples MP1168: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1168
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 01/28/10

Metal	D10522-3 Original	SDL 1:5	%DIF	QC Limits
Antimony				
Arsenic	anr			
Barium	100000000051100		0.0	0-10
Beryllium				
Boron	46.6	59.5	27.7 (a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	78.2	87.5	8.9	0-10
Cobalt				
Copper	127	0.00	100.0(a)	0-10
Iron				
Lead	124	91.0	26.4 (a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	102	123	5.4	0-10
Phosphorus	anr			
Potassium	anr			
Selenium	14.8	25.5	72.3 (a)	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	372	525	8.2	0-10

Associated samples MP1168: D10402-3, D10402-4, D10402-5, D10402-10

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1169
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 01/28/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.24	.89		
Arsenic	0.40	.058	.26	0.16	<0.40
Calcium	200	2.6	6.1		
Copper	1.0	.0045	.14		
Iron	20	2.1	6.1		
Lead	0.25	.0013	.18		
Magnesium	50	.096	1.3		
Potassium	100	4.3	9.1		
Sodium	250	.25	1.8		
Uranium	0.25	.0005	.12		

Associated samples MP1169: D10402-1, D10402-2, D10402-6, D10402-7, D10402-8, D10402-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.5.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

QC Batch ID: MP1169
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date:

01/28/10

01/28/10

Metal	D10522-3 Original DUP		RPD	QC Limits	D10522-3 Original MS		Spikelot MPICPR1	% Rec	QC Limits
Aluminum									
Arsenic	5.3	7.7	36.9*(a)	0-20	5.3	191	191	97.3	60-119
Calcium									
Copper									
Iron									
Lead									
Magnesium									
Potassium									
Sodium									
Uranium									

Associated samples MP1169: D10402-1, D10402-2, D10402-6, D10402-7, D10402-8, D10402-9

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) High RPD due to possible sample nonhomogeneity.

8.5.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D10402
 Account: KRWCCOL - KRW Consulting, Inc.
 Project: 1001-02

QC Batch ID: MP1169
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 01/28/10

Metal	D10522-3 Original	MSD	Spikelot MPICPR1	% Rec	MSD RPD	QC Limit
Aluminum						
Arsenic	5.3	170	173	95.2	11.6	20
Calcium						
Copper						
Iron						
Lead						
Magnesium						
Potassium						
Sodium						
Uranium						

Associated samples MP1169: D10402-1, D10402-2, D10402-6, D10402-7, D10402-8, D10402-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.5.2
8

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

Methods: SW846 6020
Units: mg/kg

Metal	LCS Result	Spikelot MPLCD064	% Rec	QC Limits
Aluminum				
Arsenic	159	158	100.6	82-118
Calcium				
Copper				
Iron				
Lead				
Magnesium				
Potassium				
Sodium				
Uranium				

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D10402
 Account: KRWCCOL - KRW Consulting, Inc.
 Project: 1001-02

QC Batch ID: MP1169
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 01/28/10

Metal	D10522-3 Original SDL 1:5		%DIF	QC Limits
Aluminum				
Arsenic	10.8	10.5	2.7	0-10
Calcium				
Copper				
Iron				
Lead				
Magnesium				
Potassium				
Sodium				
Uranium				

Associated samples MP1169: D10402-1, D10402-2, D10402-6, D10402-7, D10402-8, D10402-9

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.5.4

8



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D10402
Account: KRWCCOL - KRW Consulting, Inc.
Project: 1001-02

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP1355/GN2982			umhos/cm	9985	10000	100.4	90-110%
pH	GN2907			su	8.00	7.99	99.9	99.3-100.7%

Associated Samples:
Batch GN2907: D10402-1, D10402-10, D10402-2, D10402-3, D10402-4, D10402-5, D10402-6, D10402-7, D10402-8, D10402-9
Batch GP1355: D10402-1, D10402-10, D10402-2, D10402-3, D10402-4, D10402-5, D10402-6, D10402-7, D10402-8, D10402-9
(*) Outside of QC limits



Misc. Forms

Custody Documents and Other Forms

(Accutest Labs of New England, Inc.)

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D10402

Client: AMS

Immediate Client Services Action Required: No

Date / Time Received: 1/19/2010 10:00:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: N/A

Airbill #'s: N/A

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume rec'd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www.accutest.com

D10402: Chain of Custody

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10.1
10



General Chemistry

QC Data Summaries

(Accutest Labs of New England, Inc.)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D10402
Account: ALMS - Accutest Mountain States
Project: KRWCOL: KRW, Lakewood, CO

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP11206/GN30930	2.0	0.0	mg/kg	40	40.7	101.8	80-120%
Chromium, Hexavalent	GP11206/GN30930			mg/kg	696	683	98.1	80-120%
Chromium, Hexavalent	GP11206/GN30930			mg/kg	120	105	87.5	80-120%

Associated Samples:
Batch GP11206: D10402-10, D10402-3, D10402-4, D10402-5
(*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D10402
Account: ALMS - Accutest Mountain States
Project: KRWCCOL: KRW, Lakewood, CO

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP11206/GN30930	D10404-2B	mg/kg	0.40	0.34	16.2	0-20%
Redox Potential Vs H2	GN30926	D10403-2C	mv	195	193	1.0	0-20%

Associated Samples:
Batch GN30926: D10402-10, D10402-3, D10402-4, D10402-5
Batch GP11206: D10402-10, D10402-3, D10402-4, D10402-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D10402
Account: ALMS - Accutest Mountain States
Project: KRWCCOL: KRW, Lakewood, CO

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP11206/GN30930	D10404-2B	mg/kg	0.40	46.8	47.8	101.3	75-125%
Chromium, Hexavalent	GP11206/GN30930	D10404-2B	mg/kg	0.40	966	999	103.4	75-125%

Associated Samples:

Batch GP11206: D10402-10, D10402-3, D10402-4, D10402-5

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits