



Friday, February 25, 2011

Phil Cavendor  
AUC, LLC  
1536 Cole Blvd  
Suite 330  
Lakewood, CO 80401

RE: Reno Creek Project

Order No.: S1011102

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM6 on November 4, 2010.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Lacey Ketron  
Project Manager

xc: File  
Encl.



Date: 2/25/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1011102

**CASE NARRATIVE**  
**Report ID:** S1011102003  
(Replaces S1011102002)

Sample PZM6 was received on November 4, 2010.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993  
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998  
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition  
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

For the purposes of this report, the Reporting Limit (RL) is the Practical Quantitation Limit (PQL).

Radon 222 was analyzed through ALS Laboratory Group Certification #: CO00078.

Qualifiers by sample

S1011102-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

LCS-R65563 - General Parameters/Radon-222 - Analyzed by a contract laboratory

MB-R65563 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Reviewed by:

Lacey Ketron, Water Lab Supervisor



### Sample Analysis Report

**CLIENT:** AUC LLC  
1536 Cole Blvd  
Suite 330  
Lakewood, CO 80401

**Date Reported:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

**Project:** Reno Creek Project  
**Lab ID:** S1011102-001  
**Client Sample ID:** PZM6  
**COC:** 004

**Work Order:** S1011102  
**Collection Date:** 11/3/2010 11:15:00 AM  
**Date Received:** 11/4/2010 10:20:00 AM  
**Sampler:** TN  
**Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
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Field						
pH Reading 1	7.67			s.u.	11/03/2010 1115	Field
pH Reading 2	7.63			s.u.	11/03/2010 1115	Field
pH Reading 3	7.63			s.u.	11/03/2010 1115	Field
Conductivity Reading 1	1250			µmhos/cm	11/03/2010 1115	Field
Conductivity Reading 2	1240			µmhos/cm	11/03/2010 1115	Field
Conductivity Reading 3	1240			µmhos/cm	11/03/2010 1115	Field
Turbidity Reading 1	4.33			NTU	11/03/2010 1115	Field
Turbidity Reading 2	4.87			NTU	11/03/2010 1115	Field
Turbidity Reading 3	4.36			NTU	11/03/2010 1115	Field
Dissolved Oxygen Reading 1	1.6			mg/l	11/03/2010 1115	Field
Dissolved Oxygen Reading 2	1.4			mg/l	11/03/2010 1115	Field
Dissolved Oxygen Reading 3	1.5			mg/l	11/03/2010 1115	Field
Temperature Reading 1	10.81			°C	11/03/2010 1115	Field
Temperature Reading 2	10.97			°C	11/03/2010 1115	Field
Temperature Reading 3	10.83			°C	11/03/2010 1115	Field
Oxygen Reduction Potential Reading 1	-143.3			mV	11/03/2010 1115	Field
Oxygen Reduction Potential Reading 2	-144.4			mV	11/03/2010 1115	Field
Oxygen Reduction Potential Reading 3	-144.6			mV	11/03/2010 1115	Field
Purge Rate Reading 1	175			ml/min	11/03/2010 1115	Field
Purge Rate Reading 2	175			ml/min	11/03/2010 1115	Field
Purge Rate Reading 3	175			ml/min	11/03/2010 1115	Field
Water Level Reading 1	198.12			Ft	11/03/2010 1115	Field
Water Level Reading 2	198.03			Ft	11/03/2010 1115	Field
Water Level Reading 3	198.03			Ft	11/03/2010 1115	Field

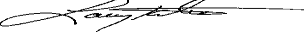
General Parameters						
pH	8.1	0.1		s.u.	11/04/2010 2150 KO	SM 4500 H B
Electrical Conductivity	1310	5		µmhos/cm	11/04/2010 2150 KO	SM 2510B
Total Dissolved Solids (180)	1030	10		mg/L	11/05/2010 1246 JF	SM 2540
Solids, Total Dissolved (Calc)	850	10		mg/L	11/11/2010 1624 LJK	SM 1030E
Alkalinity, Total (As CaCO3)	174	5		mg/L	11/04/2010 2150 KO	SM 2320B
Nitrogen, Ammonia (As N)	0.6	0.1		mg/L	11/15/2010 1250 AS	EPA 350.1
Radon-222	9300 ± 1100	50	L	pCi/L	11/05/2010 000 LJK	SM7500-RN
Silica as SiO2	13	1		mg/L	11/04/2010 1655 DG	EPA 200.7

**These results apply only to the samples tested.**

**RL - Reporting Limit**

- Qualifiers:**
- \* Value exceeds Maximum Contaminant Level
  - C Calculated Value
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - ND Not Detected at the Reporting Limit
  - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:   
Lacey Ketron, Water Lab Supervisor



### Sample Analysis Report

**CLIENT:** AUC LLC  
1536 Cole Blvd  
Suite 330  
Lakewood, CO 80401

**Date Reported:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

**Project:** Reno Creek Project  
**Lab ID:** S1011102-001  
**Client Sample ID:** PZM6  
**COC:** 004

**Work Order:** S1011102  
**Collection Date:** 11/3/2010 11:15:00 AM  
**Date Received:** 11/4/2010 10:20:00 AM  
**Sampler:** TN  
**Matrix:** Water

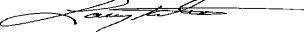
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
<b>Anions</b>						
Alkalinity, Bicarbonate as HCO3	212	5		mg/L	11/04/2010 2150 KO	SM 2320B
Alkalinity, Carbonate as CO3	ND	5		mg/L	11/04/2010 2150 KO	SM 2320B
Chloride	11	1		mg/L	11/05/2010 1649 KO	EPA 300.0
Fluoride	0.3	0.1		mg/L	11/04/2010 2150 KO	SM 4500FC
Nitrogen, Nitrate-Nitrite (as N)	ND	0.1		mg/L	11/12/2010 1203 AS	EPA 353.2
Sulfate	437	1		mg/L	11/05/2010 1649 KO	EPA 300.0
<b>Cations</b>						
Calcium	85	1		mg/L	11/04/2010 1655 DG	EPA 200.7
Magnesium	15	1		mg/L	11/04/2010 1655 DG	EPA 200.7
Potassium	8	1		mg/L	11/04/2010 1655 DG	EPA 200.7
Sodium	191	1		mg/L	11/04/2010 1655 DG	EPA 200.7
<b>Cation / Anion Balance</b>						
Cation Sum	13.93	0		meq/L	11/11/2010 1624 LJK	SM 1030E
Anion Sum	12.88	0		meq/L	11/11/2010 1624 LJK	SM 1030E
Cation-Anion Balance	3.90	0		%	11/11/2010 1624 LJK	SM 1030E
<b>Radiochemistry</b>						
Gross Alpha	58.0 ± 4.0	2		pCi/L	11/14/2010 2244 SH	SM 7110B
Gross Beta	42.3 ± 2.7	3		pCi/L	11/14/2010 2244 SH	SM 7110B
Lead 210 (Dissolved)	6.4 ± 0.7	1		pCi/L	11/19/2010 1347 SH	OTW01
Lead 210 (Suspended)	9.1 ± 0.9	1		pCi/L	11/19/2010 1608 SH	OTW01
Polonium 210 (Dissolved)	<1	1		pCi/L	11/19/2010 938 SH	OTW01
Polonium 210 (Suspended)	3.8 ± 1.4	1		pCi/L	11/19/2010 1052 SH	OTW01
Radium 226 (Dissolved)	23.4 ± 0.6	0.2		pCi/L	11/17/2010 1047 SH	SM 7500-Ra B
Radium 226 (Suspended)	0.3 ± 0.1	0.2		pCi/L	11/18/2010 948 SH	SM 7500-Ra B
Radium 228 (Dissolved)	1.4 ± 1.3	1		pCi/L	11/17/2010 2015 SH	Ra-05
Thorium 230 (Dissolved)	<0.2	0.2		pCi/L	11/16/2010 1149 WL	ACW10
Thorium 230 (Suspended)	<0.2	0.2		pCi/L	11/22/2010 1828 WL	ACW10
Uranium Suspended	<0.0003	0.0003		mg/L	11/09/2010 1428 MS	EPA 200.8

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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:   
Lacey Ketron, Water Lab Supervisor



### Sample Analysis Report

**CLIENT:** AUC LLC  
1536 Cole Blvd  
Suite 330  
Lakewood, CO 80401

**Date Reported:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

**Project:** Reno Creek Project  
**Lab ID:** S1011102-001  
**Client Sample ID:** PZM6  
**COC:** 004

**Work Order:** S1011102  
**Collection Date:** 11/3/2010 11:15:00 AM  
**Date Received:** 11/4/2010 10:20:00 AM  
**Sampler:** TN  
**Matrix:** Water

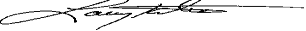
Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
<b>Dissolved Metals</b>						
Aluminum	ND	0.1		mg/L	11/04/2010 1655 DG	EPA 200.7
Arsenic	ND	0.001		mg/L	11/04/2010 1806 MS	EPA 200.8
Barium	ND	0.1		mg/L	11/04/2010 1806 MS	EPA 200.8
Boron	ND	0.1		mg/L	11/04/2010 1655 DG	EPA 200.7
Cadmium	ND	0.001		mg/L	11/04/2010 1806 MS	EPA 200.8
Chromium	ND	0.01		mg/L	11/04/2010 1655 DG	EPA 200.7
Copper	ND	0.01		mg/L	11/04/2010 1806 MS	EPA 200.8
Iron	0.14	0.05		mg/L	11/04/2010 1655 DG	EPA 200.7
Lead	ND	0.01		mg/L	11/04/2010 1806 MS	EPA 200.8
Manganese	0.25	0.01		mg/L	11/04/2010 1655 DG	EPA 200.7
Mercury	ND	0.001		mg/L	11/09/2010 1020 BK	EPA 245.1
Molybdenum	0.01	0.01		mg/L	11/04/2010 1806 MS	EPA 200.8
Nickel	ND	0.05		mg/L	11/04/2010 1655 DG	EPA 200.7
Selenium	ND	0.005		mg/L	11/04/2010 1806 MS	EPA 200.8
Uranium	0.0139	0.0003		mg/L	11/04/2010 1806 MS	EPA 200.8
Vanadium	ND	0.1		mg/L	11/04/2010 1806 MS	EPA 200.8
Zinc	ND	0.01		mg/L	11/04/2010 1655 DG	EPA 200.7
<b>Total Metals</b>						
Iron	0.28	0.05		mg/L	11/07/2010 1233 DG	EPA 200.7
Manganese	0.27	0.01		mg/L	11/07/2010 1233 DG	EPA 200.7

**These results apply only to the samples tested.**

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  - C Calculated Value
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - ND Not Detected at the Reporting Limit
  - S Spike Recovery outside accepted recovery limits

**RL - Reporting Limit**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:   
Lacey Ketron, Water Lab Supervisor

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011  
**Report ID:** S1011102003  
 (Replaces S1011102002)

Test: **Alkalinity**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/04/10 13:40	Alkalinity, Total (As CaCO3)	ND	5					
Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/04/10 22:37	Alkalinity, Total (As CaCO3)	ND	5					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/04/10 13:30	Alkalinity, Total (As CaCO3)	480	5	473		101	96.6 - 103	
Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/04/10 22:27	Alkalinity, Total (As CaCO3)	483	5	473		102	96.6 - 103	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 64658	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1011102-001B	11/04/10 21:59	Alkalinity, Bicarbonate as HCO3	210	5	212	0.849		20	
		Alkalinity, Carbonate as CO3	ND	5	ND	0		20	
		Alkalinity, Total (As CaCO3)	172	5	174	0.852		20	

Test: **Conductivity**Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/04/10 13:40	Electrical Conductivity	ND	5					
Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/04/10 22:37	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/04/10 13:30	Electrical Conductivity	1010	5	1000		101	95.2 - 105	
Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/04/10 22:27	Electrical Conductivity	993	5	1000		99.3	95.2 - 105	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 64658	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1011102-001B	11/04/10 21:59	Electrical Conductivity	1320	5	1310	0.610		20	

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	L Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
	ND Not Detected at the Reporting Limit	O Outside the Range of Dilutions
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

Test: **Dissolved Mercury by EPA 245.1 - Water**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64777	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	11/09/10 8:33	Mercury	ND	0.001					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64777	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	11/09/10 8:31	Mercury	0.002	0.001	0.002		102	85 - 115	

Test: **Dissolved Metals by ICP - EPA 200.7 - Water**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64653	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	11/04/10 14:04	Aluminum	ND	0.1					
		Boron	ND	0.03					
		Chromium	ND	0.01					
		Iron	ND	0.05					
		Manganese	ND	0.02					
		Nickel	ND	0.01					
		Zinc	ND	0.01					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64653	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	11/04/10 14:06	Aluminum	1.1	0.1	1		105	85 - 115	
		Boron	1.03	0.03	1		103	85 - 115	
		Chromium	1.03	0.01	1		103	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	1.03	0.01	1		103	85 - 115	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 64653	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1011102-001D	11/04/10 16:57	Aluminum	ND	0.1	0.00550	0		20	
		Boron	ND	0.1	0.0546	0		20	
		Chromium	ND	0.01	0.000200	0		20	
		Iron	0.14	0.05	0.137	3.07		20	
		Manganese	0.26	0.01	0.253	2.06		20	
		Nickel	ND	0.05	ND	0		20	
		Zinc	ND	0.01	ND	0		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - M Value exceeds Monthly Ave or MCL
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

Test: **Dissolved Metals by ICPMS EPA 200.8 - Water**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64649	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	11/04/10 15:31	Arsenic	ND	0.005					
		Barium	ND	0.5					
		Cadmium	ND	0.002					
		Copper	ND	0.01					
		Lead	ND	0.02					
		Molybdenum	ND	0.02					
		Selenium	ND	0.005					
		Uranium	ND	0.001					
		Vanadium	ND	0.02					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64649	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	11/04/10 15:38	Arsenic	0.099	0.005	0.1		99.3	85 - 115	
		Barium	ND	0.5	0.1		99.6	85 - 115	
		Cadmium	0.102	0.002	0.1		102	85 - 115	
		Copper	0.10	0.01	0.1		98.4	85 - 115	
		Lead	0.10	0.02	0.1		98.5	85 - 115	
		Molybdenum	0.10	0.02	0.1		101	85 - 115	
		Selenium	0.098	0.005	0.1		97.8	85 - 115	
		Uranium	0.101	0.001	0.1		101	85 - 115	
		Vanadium	0.10	0.02	0.1		99.9	85 - 115	

Test: **Fluoride by SM 4500**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/04/10 13:40	Fluoride	ND	0.1					

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/04/10 22:37	Fluoride	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/04/10 13:30	Fluoride	2.9	0.1	2.82		103	86.1 - 114	

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/04/10 22:27	Fluoride	2.9	0.1	2.82		104	86.1 - 114	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 64658	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1011102-001B	11/04/10 21:59	Fluoride	0.3	0.1	0.288	0.535		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - M Value exceeds Monthly Ave or MCL
  - O Outside the Range of Dilutions
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**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011

**Report ID:** S1011102003  
 (Replaces S1011102002)

Test: **Gross Alpha, Beta by SM 7110B**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 64979	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-316	11/14/10 22:44	Gross Alpha	ND	2					
		Gross Beta	ND	3					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 64979	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-316ALPHA	11/14/10 22:44	Gross Alpha	64	2	69		93.3	72.6 - 137	
LCS10-316BETA	11/14/10 22:44	Gross Beta	118	3	130		91.3	72.6 - 137	

Test: **Anions by ION Chromatography**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64704	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK	11/05/10 0:00	Chloride	ND	1					
		Sulfate	ND	1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64704	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	11/05/10 8:06	Sulfate	142	1	150		95.0	90 - 110	
DIONEX	11/05/10 8:17	Chloride	28	1	30		91.6	90 - 110	

Test: **Cations by ICP (Method 200.7)**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64652	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	11/04/10 14:04	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64652	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	11/04/10 14:08	Calcium	41	1	40		101	85 - 115	
		Magnesium	41	1	40		102	85 - 115	
		Potassium	41	1	40		102	85 - 115	
		Sodium	42	1	40		105	85 - 115	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011

**Report ID:** S1011102003  
 (Replaces S1011102002)

Test: **Cations by ICP (Method 200.7)**Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 64652	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1011102-001B	11/04/10 16:57	Calcium	86	1	84.6	1.88		20	
		Magnesium	15	1	14.5	1.81		20	
		Potassium	8	1	8.29	1.31		20	
		Sodium	195	1	191	1.92		20	

Test: **Nitrogen, Ammonia (as N)**Sample Type **mblk** Units: mg/L

Sample ID	RunNo: 64967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Blank	11/15/10 12:20	Nitrogen, Ammonia (As N)	ND	0.1					

Sample Type **ics** Units: mg/L

Sample ID	RunNo: 64967	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	11/15/10 12:22	Nitrogen, Ammonia (As N)	15.2	0.1	16		94.5	90 - 110	

Test: **Nitrogen, Nitrate-Nitrite (as N)**Sample Type **mblk** Units: mg/L

Sample ID	RunNo: 64906	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
blk	11/12/10 10:51	Nitrogen, Nitrate-Nitrite (as N)	ND	0.05					

Sample Type **ics** Units: mg/L

Sample ID	RunNo: 64906	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	11/12/10 10:53	Nitrogen, Nitrate-Nitrite (as N)	30.7	0.05	28.7		107	90 - 110	

Test: **Lead 210 and Polonium 210**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65284	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65284	11/19/10 13:47	Lead 210 (Dissolved)	ND	1					

Sample ID	RunNo: 65284	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65284	11/19/10 13:47	Lead 210 (Suspended)	ND	1					

Sample ID	RunNo: 65284	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65284	11/19/10 9:38	Polonium 210 (Dissolved)	ND	1					

Sample ID	RunNo: 65284	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65284	11/19/10 9:38	Polonium 210 (Suspended)	ND	1					

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

Test: **Lead 210 and Polonium 210**

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 65284	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65284	11/19/10 13:47	Lead 210 (Dissolved)	12	1	11.1		105	50 - 150	
		Lead 210 (Suspended)	12	1	11.1		105	50 - 150	

Sample ID	RunNo: 65284	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65284	11/19/10 9:38	Polonium 210 (Dissolved)	17	1	15.1		113	50 - 150	
		Polonium 210 (Suspended)	17	1	15.1		113	50 - 150	

Test: **Total Radium 228**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65220	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-313	11/17/10 20:15	Radium 228 (Dissolved)	ND	1					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 65220	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-313	11/17/10 20:15	Radium 228 (Dissolved)	13	1	14.4		91.3	63.8 - 119	

Test: **Radium 226 by SM 7500**

Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65233	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-312	11/17/10 10:47	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 65241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-316	11/18/10 9:48	Radium 226 (Suspended)	ND	0.2					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 65233	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-312	11/17/10 10:47	Radium 226 (Dissolved)	7.7	0.2	9.52		80.7	69.3 - 130	

Sample ID	RunNo: 65241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-316	11/18/10 9:48	Radium 226 (Suspended)	8.2	0.2	9.52		85.7	69.3 - 130	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011

**Report ID:** S1011102003  
 (Replaces S1011102002)

Test: **Thorium 230 in Water**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65042	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65042	11/16/10 11:49	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 65242	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65242	11/22/10 18:28	Thorium 230 (Suspended)	ND	0.2					

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 65042	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65042	11/16/10 11:49	Thorium 230 (Dissolved)	14	0.2	12		114	50 - 150	

Sample ID	RunNo: 65242	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65242	11/22/10 18:28	Thorium 230 (Suspended)	12	0.2	12		97.1	50 - 150	

Test: **Radon 222 by SM7500-RN**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 65563	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R65563	11/05/10 0:00	Radon-222	ND	50					L

Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 65563	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R65563	11/05/10 0:00	Radon-222	22100	100	22500		98.1	75 - 125	L

Test: **Silica as SiO2**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64654	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	11/04/10 14:04	Silica as SiO2	ND	0.1					

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64654	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	11/04/10 14:06	Silica as SiO2	2.1	0.1	2.14		98.6	85 - 115	

Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 64654	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1011102-001D	11/04/10 16:57	Silica as SiO2	14	1	13.1	3.38		20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M	Value exceeds Monthly Ave or MCL
ND	Not Detected at the Reporting Limit	O	Outside the Range of Dilutions
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

Test: **Solids By SM 2540**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64752	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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Air 11/05/10 11:16 Total Dissolved Solids (180) ND 10

Sample ID	RunNo: 64752	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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Air 11/05/10 11:21 Total Dissolved Solids (180) ND 10

Sample ID	RunNo: 64752	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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DI 11/05/10 11:26 Total Dissolved Solids (180) ND 10

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64752	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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Control 11/05/10 11:31 Total Dissolved Solids (180) 220 10 226 98.2 90 - 110

Test: **Total (200.2) Metals by EPA 200.7 ICP - Water**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLK 11/5 TOT -4627 11/07/10 12:14 Iron ND 0.05  
Manganese ND 0.02

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS 11/5 TOT -4627 11/07/10 12:16 Iron 0.50 0.05 0.5 99.1 85 - 115  
Manganese 0.19 0.02 0.2 96.7 85 - 115

Test: **Suspended Natural Uranium**

Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 64782	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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Init Cal Blank 11/09/10 13:14 Uranium Suspended ND 0.001

Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 64782	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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lcs 11/09/10 13:22 Uranium Suspended 0.099 0.001 0.1 99.0 90 - 110

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - M Value exceeds Monthly Ave or MCL
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1011102  
**Project:** Reno Creek Project

**Date:** 2/25/2011  
**Report ID:** S1011102003  
(Replaces S1011102002)

Test: **pH Water**

Sample Type **MBLK** Units: s.u.

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 11/04/10 13:40 pH 6.1 0.1

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 11/04/10 22:37 pH 6.2 0.1

Sample Type **LCS** Units: s.u.

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 11/04/10 13:30 pH 10.9 0.1 10.7 102 94.8 - 105

Sample ID	RunNo: 64658	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 11/04/10 22:27 pH 10.5 0.1 10.7 98.3 94.8 - 105

Sample Type **DUP** Units: s.u.

Sample ID	RunNo: 64658	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1011102-001B 11/04/10 21:59 pH 8.1 0.1 8.07 0.281 20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - M Value exceeds Monthly Ave or MCL
  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits





**Inter-Mountain Labs, Inc.**  
**Sheridan, WY and Gillette, WY**

**- CHAIN OF CUSTODY RECORD -**

All shaded fields must be completed.

This is a legal document; any misrepresentation may be construed as fraud.

# **WEB**

004

Client Name **AUC, LLC**

Project Identification **Reno Creek Project**

Sampler (Signature/Attestation of Authenticity)

Telephone #

Report Address **pcavendor@bayswateruranium.com**

**jshtiver@treccorp.com**

Contact Name and Email **Jim Shriver jshtiver@treccorp.com**

ANALYSES / PARAMETERS

**tnickerson@treccorp.com**

Voice **307-265-0696**

FAX **307-265-2498**

Quote #

spec attached tables

Invoice Address **AUC, LLC**  
**951 Werner Court Suite 395**  
**Casper Wyoming 82601**

Purchase Order #

Matrix

# of Containers

REMARKS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1							
2	Shriver 001	11/3	11:15	PZMC	UD 10	X X	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

LAB COMMENTS

Reinquished By (Signature/Printed)

DATE

TIME

Received By (Signature/Printed)

DATE

TIME

4.30c

*Max. Nickerson Trace Order 11/3*

*Max. Nickerson*

11-3-10 1445

11-4-10 1020

**SHIPPING INFO**

- UPS
- Fed Express
- US Mail
- Hand Carried
- Other

**MATRIX CODES**

- Water
- Soil
- Trip Blank
- Other

**TURN AROUND TIMES**

- Check desired service
  - Standard turnaround
  - RUSH - 5 Working Days
  - URGENT - < 2 Working Days
- Rush & Urgent Surcharges will be applied

**COMPLIANCE INFORMATION**

- Compliance Monitoring ?
- Program (SDWA, NPDES, ...)
- PWSID / Permit #
- Chlorinated?
- Sample Disposal: Lab  Client

**ADDITIONAL REMARKS**