



Tuesday, March 15, 2011

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

RE: Reno Creek Project

Order No.: S1012322

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM8, and PZM9 on December 22, 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: 3/15/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1012322

**CASE NARRATIVE**  
**Report ID:** S1012322002  
(Replaces S1012322001)

Samples PZM8, and PZM9 were received on December 22, 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

S1012322-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
S1012322-002 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

S1012322-002 - Radiochemistry - Soil/Polonium 210 (Suspended) - RPD outside accepted recovery limits  
S1012322-001 - Radiochemistry - Soil/Thorium 230 (Dissolved) - RPD outside accepted recovery limits  
LCS-R66804 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
MB-R66804 - 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:** 3/15/2011  
**Report ID:** S1012322002  
(Replaces S1012322001)

**Project:** Reno Creek Project  
**Lab ID:** S1012322-001  
**Client Sample ID:** PZM9  
**COC:** 8003

**Work Order:** S1012322  
**Collection Date:** 12/20/2010 11:45:00 AM  
**Date Received:** 12/22/2010 10:37:00 AM  
**Sampler:** TN  
**Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
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Field						
pH Reading 1	11.48			s.u.	12/20/2010 1145	Field
pH Reading 2	11.48			s.u.	12/20/2010 1145	Field
pH Reading 3	11.45			s.u.	12/20/2010 1145	Field
Conductivity Reading 1	1228			µmhos/cm	12/20/2010 1145	Field
Conductivity Reading 2	1223			µmhos/cm	12/20/2010 1145	Field
Conductivity Reading 3	1220			µmhos/cm	12/20/2010 1145	Field
Turbidity Reading 1	2.71			NTU	12/20/2010 1145	Field
Turbidity Reading 2	2.29			NTU	12/20/2010 1145	Field
Turbidity Reading 3	2.86			NTU	12/20/2010 1145	Field
Dissolved Oxygen Reading 1	0.38			mg/l	12/20/2010 1145	Field
Dissolved Oxygen Reading 2	0.32			mg/l	12/20/2010 1145	Field
Dissolved Oxygen Reading 3	0.35			mg/l	12/20/2010 1145	Field
Temperature Reading 1	6.03			°C	12/20/2010 1145	Field
Temperature Reading 2	5.96			°C	12/20/2010 1145	Field
Temperature Reading 3	5.93			°C	12/20/2010 1145	Field
Oxygen Reduction Potential Reading 1	5.1			mV	12/20/2010 1145	Field
Oxygen Reduction Potential Reading 2	2.3			mV	12/20/2010 1145	Field
Oxygen Reduction Potential Reading 3	0.4			mV	12/20/2010 1145	Field
Purge Rate Reading 1	350			ml/min	12/20/2010 1145	Field
Purge Rate Reading 2	350			ml/min	12/20/2010 1145	Field
Purge Rate Reading 3	350			ml/min	12/20/2010 1145	Field
Water Level Reading 1	291.68			Ft	12/20/2010 1145	Field
Water Level Reading 2	291.68			Ft	12/20/2010 1145	Field
Water Level Reading 3	291.68			Ft	12/20/2010 1145	Field

General Parameters						
pH	10.7	0.1		s.u.	12/22/2010 1603 KO	SM 4500 H B
Electrical Conductivity	1720	5		µmhos/cm	12/22/2010 1603 KO	SM 2510B
Total Dissolved Solids (180)	1340	10		mg/L	12/22/2010 1740 JF	SM 2540
Solids, Total Dissolved (Calc)	1210	10		mg/L	01/05/2011 1406 LJK	SM 1030E
Alkalinity, Total (As CaCO3)	80	5		mg/L	12/28/2010 1443 AMB	SM 2320B
Nitrogen, Ammonia (As N)	0.3	0.1		mg/L	12/30/2010 1406 AS	EPA 350.1
Radon-222	32800 ± 3800	50	L	pCi/L	12/22/2010 000 LJK	SM7500-RN
Silica as SiO2	4	1		mg/L	12/22/2010 1421 RS	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:** 3/15/2011  
**Report ID:** S1012322002  
(Replaces S1012322001)

**Project:** Reno Creek Project  
**Lab ID:** S1012322-001  
**Client Sample ID:** PZM9  
**COC:** 8003

**Work Order:** S1012322  
**Collection Date:** 12/20/2010 11:45:00 AM  
**Date Received:** 12/22/2010 10:37:00 AM  
**Sampler:** TN  
**Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
<b>Anions</b>						
Alkalinity, Bicarbonate as HCO3	ND	5		mg/L	12/28/2010 1443 AMB	SM 2320B
Alkalinity, Carbonate as CO3	40	5		mg/L	12/28/2010 1443 AMB	SM 2320B
Chloride	6	1		mg/L	12/22/2010 1733 KO	EPA 300.0
Fluoride	0.1	0.1		mg/L	12/28/2010 1443 AMB	SM 4500FC
Nitrogen, Nitrate-Nitrite (as N)	ND	0.1		mg/L	12/23/2010 1620 AS	EPA 353.2
Sulfate	754	1		mg/L	12/22/2010 1733 KO	EPA 300.0
<b>Cations</b>						
Calcium	113	1		mg/L	12/22/2010 1421 RS	EPA 200.7
Magnesium	5	1		mg/L	12/22/2010 1421 RS	EPA 200.7
Potassium	21	1		mg/L	12/22/2010 1421 RS	EPA 200.7
Sodium	266	1		mg/L	12/22/2010 1421 RS	EPA 200.7
<b>Cation / Anion Balance</b>						
Cation Sum	18.19	0		meq/L	01/05/2011 1406 LJK	SM 1030E
Anion Sum	17.48	0		meq/L	01/05/2011 1406 LJK	SM 1030E
Cation-Anion Balance	1.97	0		%	01/05/2011 1406 LJK	SM 1030E
<b>Radiochemistry</b>						
Gross Alpha	186 ± 10.6	2		pCi/L	12/29/2010 1728 SH	SM 7110B
Gross Beta	70.8 ± 5.1	3		pCi/L	12/29/2010 1728 SH	SM 7110B
Lead 210 (Dissolved)	5.6 ± 0.1	1		pCi/L	01/04/2011 1051 SH	OTW01
Lead 210 (Suspended)	8.1 ± 0.8	1		pCi/L	01/04/2011 1051 SH	OTW01
Polonium 210 (Dissolved)	1.3 ± 0.6	1		pCi/L	01/03/2011 1627 SH	OTW01
Polonium 210 (Suspended)	<1	1		pCi/L	01/03/2011 1627 SH	OTW01
Radium 226 (Dissolved)	107 ± 1.3	0.2		pCi/L	01/04/2011 1340 SH	SM 7500-Ra B
Radium 226 (Suspended)	0.7 ± 0.1	0.2		pCi/L	01/04/2011 1340 SH	SM 7500-Ra B
Radium 228 (Dissolved)	1.4 ± 0.8	1		pCi/L	01/03/2011 2028 SH	Ra-05
Thorium 230 (Dissolved)	<0.2	0.2		pCi/L	01/03/2011 1156 WL	ACW10
Thorium 230 (Suspended)	<0.2	0.2		pCi/L	01/03/2011 1156 WL	ACW10
Uranium Suspended	0.0006	0.0003		mg/L	12/28/2010 1047 MS	EPA 200.8

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  - 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:** 3/15/2011  
**Report ID:** S1012322002  
(Replaces S1012322001)

**Project:** Reno Creek Project  
**Lab ID:** S1012322-001  
**Client Sample ID:** PZM9  
**COC:** 8003

**Work Order:** S1012322  
**Collection Date:** 12/20/2010 11:45:00 AM  
**Date Received:** 12/22/2010 10:37:00 AM  
**Sampler:** TN  
**Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
<b>Dissolved Metals</b>						
Aluminum	ND	0.1		mg/L	12/22/2010 1421 RS	EPA 200.7
Arsenic	ND	0.001		mg/L	12/22/2010 1347 MS	EPA 200.8
Barium	ND	0.1		mg/L	12/22/2010 1347 MS	EPA 200.8
Boron	ND	0.1		mg/L	12/22/2010 1421 RS	EPA 200.7
Cadmium	ND	0.001		mg/L	12/22/2010 1347 MS	EPA 200.8
Chromium	ND	0.01		mg/L	12/22/2010 1421 RS	EPA 200.7
Copper	0.02	0.01		mg/L	12/22/2010 1347 MS	EPA 200.8
Iron	ND	0.05		mg/L	12/22/2010 1421 RS	EPA 200.7
Lead	ND	0.01		mg/L	12/22/2010 1347 MS	EPA 200.8
Manganese	ND	0.01		mg/L	12/22/2010 1421 RS	EPA 200.7
Mercury	ND	0.001		mg/L	12/28/2010 843 BK	EPA 245.1
Molybdenum	0.01	0.01		mg/L	12/22/2010 1347 MS	EPA 200.8
Nickel	ND	0.05		mg/L	12/22/2010 1421 RS	EPA 200.7
Selenium	ND	0.005		mg/L	12/22/2010 1347 MS	EPA 200.8
Uranium	0.0030	0.0003		mg/L	12/22/2010 1347 MS	EPA 200.8
Vanadium	ND	0.1		mg/L	12/22/2010 1347 MS	EPA 200.8
Zinc	ND	0.01		mg/L	12/22/2010 1421 RS	EPA 200.7
<b>Total Metals</b>						
Iron	0.06	0.05		mg/L	12/23/2010 1622 RS	EPA 200.7
Manganese	ND	0.01		mg/L	12/23/2010 1622 RS	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



### Sample Analysis Report

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

**Date Reported:** 3/15/2011  
**Report ID:** S1012322002  
(Replaces S1012322001)

**Project:** Reno Creek Project  
**Lab ID:** S1012322-002  
**Client Sample ID:** PZM8  
**COC:** 8003

**Work Order:** S1012322  
**Collection Date:** 12/20/2010 2:30:00 PM  
**Date Received:** 12/22/2010 10:37:00 AM  
**Sampler:** TN  
**Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
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Field						
pH Reading 1	8.32			s.u.	12/20/2010 1430	Field
pH Reading 2	8.31			s.u.	12/20/2010 1430	Field
pH Reading 3	8.31			s.u.	12/20/2010 1430	Field
Conductivity Reading 1	1175			µmhos/cm	12/20/2010 1430	Field
Conductivity Reading 2	1171			µmhos/cm	12/20/2010 1430	Field
Conductivity Reading 3	1171			µmhos/cm	12/20/2010 1430	Field
Turbidity Reading 1	0.81			NTU	12/20/2010 1430	Field
Turbidity Reading 2	0.95			NTU	12/20/2010 1430	Field
Turbidity Reading 3	0.68			NTU	12/20/2010 1430	Field
Dissolved Oxygen Reading 1	2.32			mg/l	12/20/2010 1430	Field
Dissolved Oxygen Reading 2	2.04			mg/l	12/20/2010 1430	Field
Dissolved Oxygen Reading 3	1.98			mg/l	12/20/2010 1430	Field
Temperature Reading 1	4.96			°C	12/20/2010 1430	Field
Temperature Reading 2	4.85			°C	12/20/2010 1430	Field
Temperature Reading 3	4.87			°C	12/20/2010 1430	Field
Oxygen Reduction Potential Reading 1	-115.4			mV	12/20/2010 1430	Field
Oxygen Reduction Potential Reading 2	-123.1			mV	12/20/2010 1430	Field
Oxygen Reduction Potential Reading 3	-124.0			mV	12/20/2010 1430	Field
Purge Rate Reading 1	400			ml/min	12/20/2010 1430	Field
Purge Rate Reading 2	400			ml/min	12/20/2010 1430	Field
Purge Rate Reading 3	400			ml/min	12/20/2010 1430	Field
Water Level Reading 1	287.66			Ft	12/20/2010 1430	Field
Water Level Reading 2	287.66			Ft	12/20/2010 1430	Field
Water Level Reading 3	287.65			Ft	12/20/2010 1430	Field

General Parameters						
pH	8.1	0.1		s.u.	12/22/2010 1612 KO	SM 4500 H B
Electrical Conductivity	1780	5		µmhos/cm	12/22/2010 1612 KO	SM 2510B
Total Dissolved Solids (180)	1430	10		mg/L	12/22/2010 1745 JF	SM 2540
Solids, Total Dissolved (Calc)	1310	10		mg/L	01/05/2011 1406 LJK	SM 1030E
Alkalinity, Total (As CaCO3)	75	5		mg/L	12/28/2010 1454 AMB	SM 2320B
Nitrogen, Ammonia (As N)	ND	0.1		mg/L	12/30/2010 1413 AS	EPA 350.1
Radon-222	38600 ± 4400	50	L	pCi/L	12/22/2010 000 LJK	SM7500-RN
Silica as SiO2	10	1		mg/L	12/22/2010 1423 RS	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: 3/15/2011
Report ID: S1012322002
(Replaces S1012322001)

Project: Reno Creek Project
Lab ID: S1012322-002
Client Sample ID: PZM8
COC: 8003

Work Order: S1012322
Collection Date: 12/20/2010 2:30:00 PM
Date Received: 12/22/2010 10:37:00 AM
Sampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, RL, Qual, Units, Date Analyzed/Init, Method. Rows include Anions (Alkalinity, Chloride, etc.), Cations (Calcium, Magnesium, etc.), Cation / Anion Balance, and Radiochemistry (Gross Alpha, Lead 210, etc.).

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: [Signature]
Lacey Ketron, Water Lab Supervisor



### Sample Analysis Report

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

**Date Reported:** 3/15/2011  
**Report ID:** S1012322002  
(Replaces S1012322001)

**Project:** Reno Creek Project  
**Lab ID:** S1012322-002  
**Client Sample ID:** PZM8  
**COC:** 8003

**Work Order:** S1012322  
**Collection Date:** 12/20/2010 2:30:00 PM  
**Date Received:** 12/22/2010 10:37:00 AM  
**Sampler:** TN  
**Matrix:** Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
<b>Dissolved Metals</b>						
Aluminum	ND	0.1		mg/L	12/22/2010 1423 RS	EPA 200.7
Arsenic	0.008	0.001		mg/L	12/22/2010 1350 MS	EPA 200.8
Barium	ND	0.1		mg/L	12/22/2010 1350 MS	EPA 200.8
Boron	ND	0.1		mg/L	12/22/2010 1423 RS	EPA 200.7
Cadmium	ND	0.001		mg/L	12/22/2010 1350 MS	EPA 200.8
Chromium	ND	0.01		mg/L	12/22/2010 1423 RS	EPA 200.7
Copper	ND	0.01		mg/L	12/22/2010 1350 MS	EPA 200.8
Iron	0.16	0.05		mg/L	12/22/2010 1423 RS	EPA 200.7
Lead	ND	0.01		mg/L	12/22/2010 1350 MS	EPA 200.8
Manganese	0.11	0.01		mg/L	12/22/2010 1423 RS	EPA 200.7
Mercury	ND	0.001		mg/L	12/28/2010 850 BK	EPA 245.1
Molybdenum	0.09	0.01		mg/L	12/22/2010 1350 MS	EPA 200.8
Nickel	ND	0.05		mg/L	12/22/2010 1423 RS	EPA 200.7
Selenium	ND	0.005		mg/L	12/22/2010 1350 MS	EPA 200.8
Uranium	0.0664	0.0003		mg/L	12/22/2010 1350 MS	EPA 200.8
Vanadium	ND	0.1		mg/L	12/22/2010 1350 MS	EPA 200.8
Zinc	ND	0.01		mg/L	12/22/2010 1423 RS	EPA 200.7
<b>Total Metals</b>						
Iron	0.18	0.05		mg/L	12/23/2010 1631 RS	EPA 200.7
Manganese	0.11	0.01		mg/L	12/23/2010 1631 RS	EPA 200.7

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

- Qualifiers:**
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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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011  
**Report ID:** S1012322002

Test: **Alkalinity**

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

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/28/10 10:03 Alkalinity, Total (As CaCO3) ND 5

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/28/10 16:57 Alkalinity, Total (As CaCO3) ND 5

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/28/10 23:34 Alkalinity, Total (As CaCO3) ND 5

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

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/28/10 9:52 Alkalinity, Total (As CaCO3) 477 5 473 101 96.6 - 103

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/28/10 16:48 Alkalinity, Total (As CaCO3) 483 5 473 102 96.6 - 103

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/28/10 23:25 Alkalinity, Total (As CaCO3) 487 5 473 103 96.6 - 103

Test: **Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/22/10 13:08 Electrical Conductivity ND 5

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/22/10 20:31 Electrical Conductivity ND 5

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/28/10 10:03 Electrical Conductivity ND 5

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/28/10 23:34 Electrical Conductivity ND 5

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/22/10 12:58 Electrical Conductivity 990 5 1000 99.0 90 - 110

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/22/10 20:24 Electrical Conductivity 979 5 1000 97.9 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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011**Report ID:** S1012322002Test: **Conductivity**Sample Type **LCS** Units:  $\mu$ mhos/cm

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/28/10 9:52	Electrical Conductivity	982	5	1000		98.2	90 - 110	

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/28/10 23:25	Electrical Conductivity	961	5	1000		96.1	90 - 110	

Sample Type **DUP** Units:  $\mu$ mhos/cm

Sample ID	RunNo: 66142	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002B	12/22/10 16:22	Electrical Conductivity	1780	5	1780	0.507		20	

Test: **Dissolved Mercury by EPA 245.1 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 66165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	12/28/10 8:41	Mercury	ND	0.001					

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

Sample ID	RunNo: 66165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	12/28/10 8:40	Mercury	0.002	0.001	0.002		98.5	85 - 115	

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

Sample ID	RunNo: 66165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001D	12/28/10 8:47	Mercury	0.002	0.001	0.002	ND	116	70 - 130	

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

Sample ID	RunNo: 66165	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-001D	12/28/10 8:45	Mercury	ND	0.001	ND	0		20	

Test: **Dissolved Metals by ICP - EPA 200.7 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 66080	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	12/22/10 14:00	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					

<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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011  
**Report ID:** S1012322002

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

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

Sample ID	RunNo: 66080	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	12/22/10 14:03	Aluminum	1.0	0.1	1		98.8	85 - 115	
		Boron	0.99	0.03	1		96.4	85 - 115	
		Chromium	1.01	0.01	1		101	85 - 115	
		Iron	1.04	0.05	1		104	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.04	0.01	1		104	85 - 115	
		Zinc	1.04	0.01	1		104	85 - 115	

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

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

Sample ID	RunNo: 66067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	12/22/10 12:42	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: 66067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	12/22/10 12:49	Arsenic	0.099	0.005	0.1		99.4	85 - 115	
		Barium	ND	0.5	0.1		101	85 - 115	
		Cadmium	0.101	0.002	0.1		101	85 - 115	
		Copper	0.10	0.01	0.1		99.5	85 - 115	
		Lead	0.10	0.02	0.1		97.1	85 - 115	
		Molybdenum	0.10	0.02	0.1		98.6	85 - 115	
		Selenium	0.099	0.005	0.1		99.1	85 - 115	
		Uranium	0.102	0.001	0.1		102	85 - 115	
		Vanadium	0.10	0.02	0.1		103	85 - 115	

- 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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011

**Report ID:** S1012322002

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

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

Sample ID	RunNo: 66067	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-002Ds	12/22/10 13:57	Arsenic	1.11	0.005	1.1	0.008	100	70 - 130	
		Barium	1.2	0.5	1.1	ND	103	70 - 130	
		Cadmium	1.13	0.002	1.1	ND	103	70 - 130	
		Copper	1.09	0.01	1.1	ND	98.8	70 - 130	
		Lead	0.98	0.02	1.1	ND	89.4	70 - 130	
		Molybdenum	1.22	0.02	1.1	0.09	103	70 - 130	
		Selenium	1.08	0.005	1.1	ND	97.7	70 - 130	
		Uranium	1.22	0.001	1.1	0.066	105	70 - 130	
		Vanadium	1.14	0.02	1.1	ND	103	70 - 130	

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

Sample ID	RunNo: 66067	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002D	12/22/10 13:54	Arsenic	0.008	0.001	0.008	1.63		20	
		Barium	ND	0.1	ND	0		20	
		Cadmium	ND	0.001	ND	0		20	
		Copper	ND	0.01	ND	0		20	
		Lead	ND	0.01	ND	0		20	
		Molybdenum	0.09	0.01	0.09	0.659		20	
		Selenium	ND	0.005	ND	0		20	
		Uranium	0.0659	0.0003	0.0664	0.701		20	
		Vanadium	ND	0.1	ND	0		20	

Test: **Fluoride by SM 4500**

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

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/28/10 10:03	Fluoride	ND	0.1					

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/28/10 16:57	Fluoride	ND	0.1					

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/28/10 23:34	Fluoride	ND	0.1					

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

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/28/10 9:52	Fluoride	3.0	0.1	2.82		105	86.1 - 114	

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/28/10 16:48	Fluoride	2.8	0.1	2.82		98.5	86.1 - 114	

- 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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011**Report ID:** S1012322002Test: **Fluoride by SM 4500**Sample Type **LCS** Units: mg/L

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	12/28/10 23:25	Fluoride	2.8	0.1	2.82		100	86.1 - 114	

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

Sample ID	RunNo: 66303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66303	12/29/10 17:28	Gross Alpha	ND	2					
		Gross Beta	ND	3					

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

Sample ID	RunNo: 66303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66303	12/29/10 17:28	Gross Alpha	66	2	69		95.2	72.6 - 137	

Sample ID	RunNo: 66303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66303	12/29/10 17:28	Gross Beta	125	3	130		96.3	72.6 - 137	

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

Sample ID	RunNo: 66303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001FMS	12/29/10 17:28	Gross Alpha	422	2	276	186	85.5	44.4 - 137	

Sample ID	RunNo: 66303	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001FMS	12/29/10 17:28	Gross Beta	588	3	518	71	99.8	44.4 - 137	

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

Sample ID	RunNo: 66303	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002FDUP	12/29/10 17:28	Gross Alpha	152	2	151	0.617		0	
		Gross Beta	61	3	58	5.59		0	

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

Sample ID	RunNo: 66072	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	12/22/10 0:00	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 66072	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	12/22/10 8:04	Sulfate	145	1	150		96.5	90 - 110	

Sample ID	RunNo: 66072	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	12/22/10 8:14	Chloride	32	1	30		106	90 - 110	

**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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011**Report ID:** S1012322002**Test: Anions by ION Chromatography**Sample Type **DUP** Units: mg/L

Sample ID	RunNo: 66072	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-001B	12/22/10 17:43	Chloride	7	1	6	2.12		20	
		Sulfate	763	1	754	1.22		20	

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

Sample ID	RunNo: 66075	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	12/22/10 14:00	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 66075	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	12/22/10 14:05	Calcium	41	1	40		102	85 - 115	
		Magnesium	40	1	40		101	85 - 115	
		Potassium	40	1	40		99.2	85 - 115	
		Sodium	41	1	40		101	85 - 115	

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

Sample ID	RunNo: 66249	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Blank	12/30/10 13:51	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 66249	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	12/30/10 13:53	Nitrogen, Ammonia (As N)	14.6	0.1	16		91.2	90 - 110	

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

Sample ID	RunNo: 66249	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
s1012322-001c	12/30/10 14:07	Nitrogen, Ammonia (As N)	0.3	0.1	0.3	4.26		20	

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

Sample ID	RunNo: 66126	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
blk	12/23/10 15:38	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

<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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011**Report ID:** S1012322002Test: **Nitrogen, Nitrate-Nitrite (as N)**Sample Type **Ics** Units: mg/L

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	12/23/10 15:40	Nitrogen, Nitrate-Nitrite (as N)	30.5	0.1	28.7		106	90 - 110	

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66343	01/04/11 10:51	Lead 210 (Dissolved)	ND	1					

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66343	01/04/11 10:51	Lead 210 (Suspended)	ND	1					

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66344	01/03/11 16:27	Polonium 210 (Dissolved)	ND	1					

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66344	01/03/11 16:27	Polonium 210 (Suspended)	ND	1					

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66343	01/04/11 10:51	Lead 210 (Dissolved)	14	1	13.2		107	50 - 150	

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66343	01/04/11 10:51	Lead 210 (Suspended)	70	1	66.2		106	50 - 150	

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66344	01/03/11 16:27	Polonium 210 (Dissolved)	15	1	15.1		101	50 - 150	

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66344	01/03/11 16:27	Polonium 210 (Suspended)	18	1	15.1		121	50 - 150	

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001FMS	01/04/11 10:51	Lead 210 (Dissolved)	19	1	13.2	6	101	50 - 150	

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-002FMS	01/04/11 10:51	Lead 210 (Dissolved)	17	1	13.2	4	99.2	50 - 150	

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001FMS	01/03/11 16:27	Polonium 210 (Dissolved)	11	1	13.2	1	73.8	50 - 150	

**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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011**Report ID:** S1012322002**Test: Lead 210 and Polonium 210**Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 66344	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-002FMS	01/03/11 16:27	Polonium 210 (Dissolved)	15	1	15.1	ND	102	50 - 150	

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

Sample ID	RunNo: 66343	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002FDUP	01/04/11 10:51	Lead 210 (Suspended)	26	1	23	12.9		20	

Sample ID	RunNo: 66344	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002FDUP	01/03/11 16:27	Polonium 210 (Suspended)	1	1	2	50.8		20	R

**Test: Total Radium 228**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 66292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66292	01/03/11 20:28	Radium 228 (Dissolved)	ND	1					

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

Sample ID	RunNo: 66292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66292	01/03/11 20:28	Radium 228 (Dissolved)	13	1	14.2		94.6	63.8 - 119	

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

Sample ID	RunNo: 66292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001FMS	01/03/11 20:28	Radium 228 (Dissolved)	17	1	14.2	1	108	52.4 - 145	

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

Sample ID	RunNo: 66292	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002FDUP	01/03/11 20:28	Radium 228 (Dissolved)	ND	1	2	0		20	

**Test: Radium 226 by SM 7500**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 66294	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66294	12/27/10 16:30	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 66334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-363	01/04/11 13:40	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 66334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB10-363	01/04/11 13:40	Radium 226 (Suspended)	ND	0.2					

<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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011**Report ID:** S1012322002Test: **Radium 226 by SM 7500**Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 66294	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66294	12/27/10 16:30	Radium 226 (Suspended)	7.9	0.2	9.82		80.0	69.3 - 130	

Sample ID	RunNo: 66334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-363	01/04/11 13:40	Radium 226 (Dissolved)	8.1	0.2	9.82		82.2	69.3 - 130	

Sample ID	RunNo: 66334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS10-363	01/04/11 13:40	Radium 226 (Suspended)	8.3	0.2	9.82		84.3	69.3 - 130	

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

Sample ID	RunNo: 66334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001FMS	01/04/11 13:40	Radium 226 (Dissolved)	121	0.2	9.82	107	135	54.6 - 137	

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

Sample ID	RunNo: 66334	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002FDUP	01/04/11 13:40	Radium 226 (Suspended)	0.4	0.2	0.5	16.2		20	

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

Sample ID	RunNo: 66431	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66431	01/03/11 11:56	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 66431	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
TRACER BLANK DB	01/03/11 11:56	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 66431	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66431	01/03/11 11:56	Thorium 230 (Dissolved)	11	0.2	12		89.7	50 - 150	
		Thorium 230 (Suspended)	11	0.2	12		89.7	50 - 150	

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

Sample ID	RunNo: 66431	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-001FDUP	01/03/11 11:56	Thorium 230 (Dissolved)	0.4	0.2	ND	0		20	R

**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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011**Report ID:** S1012322002Test: **Radon 222 by SM7500-RN**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 66804	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R66804	12/22/10 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 66804	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R66804	12/22/10 0:00	Radon-222	21800	100	22500		96.8	75 - 125	L

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

Sample ID	RunNo: 66084	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	12/22/10 14:00	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 66084	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	12/22/10 14:03	Silica as SiO2	2.1	0.1	2.14		97.9	85 - 115	

Test: **Solids By SM 2540**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 66127	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	12/22/10 16:00	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 66127	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	12/22/10 16:05	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 66127	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	12/22/10 16:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 66127	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Control	12/22/10 16:15	Total Dissolved Solids (180)	220	10	226		99.1	90 - 110	

Test: **Total (200.2) Metals by EPA 200.7 ICP - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 66116	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK TOT-4789	12/23/10 16:13	Iron	ND	0.05					
		Manganese	ND	0.02					

**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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011  
**Report ID:** S1012322002

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

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

Sample ID	RunNo: 66116	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS TOT-4789	12/23/10 16:15	Iron	0.57	0.05	0.5		115	85 - 115	
		Manganese	0.23	0.02	0.2		115	85 - 115	

Test: **Suspended Natural Uranium**

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

Sample ID	RunNo: 66171	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	12/28/10 11:32	Uranium Suspended	ND	0.001					

Sample ID	RunNo: 66172	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	12/28/10 9:49	Uranium Suspended	ND	0.001					

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

Sample ID	RunNo: 66171	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	12/28/10 11:37	Uranium Suspended	0.100	0.001	0.1		99.7	90 - 110	

Sample ID	RunNo: 66172	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	12/28/10 9:56	Uranium Suspended	0.100	0.001	0.1		100	90 - 110	

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

Sample ID	RunNo: 66171	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-002Gs	12/28/10 12:57	Uranium Suspended	1.21	0.001	1.1	ND	110	70 - 130	

Sample ID	RunNo: 66172	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1012322-001Gs	12/28/10 10:54	Uranium Suspended	1.14	0.001	1.1	ND	104	70 - 130	

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

Sample ID	RunNo: 66171	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-002G	12/28/10 12:55	Uranium Suspended	ND	0.0003	ND	0		0	

Sample ID	RunNo: 66172	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1012322-001G	12/28/10 10:50	Uranium Suspended	0.0006	0.0003	0.0006	6.99		0	

- 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:** S1012322  
**Project:** Reno Creek Project

**Date:** 3/15/2011

**Report ID:** S1012322002

Test: **pH Water**

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

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/22/10 13:08 pH 6.1 0.1

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/22/10 20:31 pH 6.6 0.1

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/28/10 10:03 pH 6.0 0.1

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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BLANK 12/28/10 23:34 pH 6.0 0.1

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

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/22/10 12:58 pH 10.9 0.1 10.7 102 94.8 - 105

Sample ID	RunNo: 66142	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/22/10 20:24 pH 10.7 0.1 10.7 100 94.8 - 105

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/28/10 9:52 pH 10.9 0.1 10.7 102 94.8 - 105

Sample ID	RunNo: 66199	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC 12/28/10 23:25 pH 10.6 0.1 10.7 99.5 94.8 - 105

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

Sample ID	RunNo: 66142	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1012322-002B 12/22/10 16:22 pH 8.0 0.1 8.1 0.441 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 80903**

Client Name **AUC, LLC** Project Identification **Reno Creek Project** Sampler (Signature/Attestation of Authenticity) *Tim Shriver* Telephone # **307-265-0696**

Report Address **951 Werner Court Suite 395 Casper Wyoming 82601** Contact Name and Email **Tim Shriver jshriver@treccorp.com** Quote # **2010-101**

Invoice Address **951 Werner Court Suite 395 Casper Wyoming 82601** Voice **307-265-0696** FAX **307-265-2498** Purchase Order # **2010-101**

ITEM	LAB ID	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS	REMARKS
1	31012322-001	12/20/10	11:45	P2M9	W	13	See Attached Table 1 (4.14 & Guide 8)	X
2	31012322-001	12/20/10	2:30	P2M8	W	10	See Attached Table 2 (Air Particulate)	X
3							See Attached Table 3 (Vegetation)	
4							See Attached Table 4 (Sediment)	
5							See Attached Table 5 (Soil)	
6							See Attached Table 8 WYPDES Discharge	
7							See Attached Table 9 Blanks	
8								
9								
10								
11								
12								
13								
14								

LAB COMMENTS: Relinquished By (Signature/Printed) *Tim Shriver* Received By (Signature/Printed) *Tim Shriver* DATE TIME: 12/20/10 0815

SHIPPING INFO: UPS  Fed Express  US Mail  Hand Carried  Other  MATRIX CODES: Water  Soil  Solid  Trip Blank  Other  WT SL SD TB OT

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: *3.9* *Tim Shriver* *Rachelle* *Tim Shriver* *Rachelle* *Kathy Boyd* *12/20/10 10:37*