



Friday, October 14, 2011

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

RE: Reno Creek Project  
Orde

r No.: S1108611

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM14-003-110831 on August 31, 2011.

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: 10/14/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1108611

**CASE NARRATIVE**  
**Report ID:** S1108611001

Sample PZM14-003-110831 was received on September 1, 2011.

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.

The following sample, in spite of re-analysis of the Cations and Anions, does not balance possibly due to a constituent not accounted for: PZM14-003-110831.

Qualifiers by sample

- S1109009-002 - Anions/Fluoride - Spike Recovery outside accepted recovery limits (2)
- MB-R74716 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R74716 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108611-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108611-001 - General Parameters/Radon-222 - RPD outside accepted recovery limits
- s1108622-001 - Anions/Nitrogen, Nitrate-Nitrite (as N) - Spike Recovery outside accepted recovery limits (2)
- S1108611-001 - General Parameters/Total Dissolved Solids (180) - Holding times for preparation or analysis exceeded (1)

(1) The following sample was analyzed out of holding for Total Dissolved Solids analysis: PZM14-003-110831.

(2) Spike failed due to possible matrix interference from the sample.

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1108611-001
ClientSample ID: PZM14-003-110831
COC: RC 08371

Date Reported: 10/14/2011
Report ID: S1108611001
WorkOrder: S1108611
CollectionDate: 8/31/2011 2:15:00 PM
DateReceived: 8/31/2011 3:58:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include pH Reading, Conductivity Reading, Turbidity Reading, Dissolved Oxygen Reading, Temperature Reading, Oxygen Reduction Potential Reading, Purge Rate Reading, and Water Level Reading.

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

**Company:** AUC LLC  
1536 Cole Blvd  
Lakewood, CO 80401

**ProjectName:** Reno Creek Project  
**Lab ID:** S1108611-001  
**ClientSample ID:** PZM14-003-110831  
**COC:** RC 08371

**Date Reported:** 10/14/2011  
**Report ID:** S1108611001

**WorkOrder:** S1108611  
**CollectionDate:** 8/31/2011 2:15:00 PM  
**DateReceived:** 8/31/2011 3:58:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	102	mg/L		5	SM 2320B	9/1/2011 6:40:23 PM	AMB
Alkalinity, Bicarbonate as HCO3	125	mg/L		5	SM 2320B	9/1/2011 6:40:23 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	9/1/2011 6:40:23 PM	AMB
Chloride	4	mg/L		1	EPA 300.0	9/15/2011 3:49:00 AM	ARF
Fluoride	0.2	mg/L		0.1	SM 4500FC	9/1/2011 6:40:23 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	9/2/2011 12:27:00 PM	MEL
Sulfate	395	mg/L		1	EPA 300.0	9/12/2011 10:54:00 PM	ARF
Calcium	59	mg/L		1	EPA 200.7	9/14/2011 11:52:20 AM	DG
Magnesium	12	mg/L		1	EPA 200.7	9/14/2011 11:52:20 AM	DG
Potassium	7	mg/L		1	EPA 200.7	9/2/2011 3:52:41 PM	DG
Sodium	176	mg/L		1	EPA 200.7	9/14/2011 11:52:20 AM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	9/16/2011 3:24:00 PM	MEL
Silica as SiO2	9	mg/L		1	EPA 200.7	9/2/2011 3:52:41 PM	DG
<b>General Parameters</b>							
pH	8.2	s.u.		0.1	SM 4500 H B	9/1/2011 6:40:23 PM	AMB
Electrical Conductivity	1170	µmhos/cm		5	SM 2510B	9/1/2011 6:40:23 PM	AMB
Total Dissolved Solids (180)	800	mg/L	H	10	SM 2540	9/9/2011 10:50:00 AM	TH
<b>Data Quality</b>							
Cation Sum	11.77	meq/L		0.01	SM 1030E	9/20/2011 10:32:51 AM	LJK
Anion Sum	10.53	meq/L		0.01	SM 1030E	9/20/2011 10:32:51 AM	LJK
Cation-Anion Balance (± 5%)	5.54	%		0.01	SM 1030E	9/20/2011 10:32:51 AM	LJK
Solids, Total Dissolved (Calc)	720	mg/L		10	SM 1030E	9/20/2011 10:32:51 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.11	dec. %		0.01	Calculation	9/20/2011 11:03:38 AM	LJK

These results apply only to the samples tested.

## RL - Reporting Limit

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- 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

**Company:** AUC LLC  
 1536 Cole Blvd  
 Lakewood, CO 80401

**ProjectName:** Reno Creek Project  
**Lab ID:** S1108611-001  
**ClientSample ID:** PZM14-003-110831  
**COC:** RC 08371

**Date Reported:** 10/14/2011  
**Report ID:** S1108611001

**WorkOrder:** S1108611  
**CollectionDate:** 8/31/2011 2:15:00 PM  
**DateReceived:** 8/31/2011 3:58:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	ND	mg/L		0.1	EPA 200.7	9/2/2011 3:52:41 PM	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	9/1/2011 3:51:35 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	9/1/2011 3:51:35 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	9/2/2011 3:52:41 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	9/1/2011 3:51:35 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	9/2/2011 3:52:41 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	9/1/2011 3:51:35 PM	MS
Iron	0.41	mg/L		0.05	EPA 200.7	9/2/2011 3:52:41 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	9/1/2011 3:51:35 PM	MS
Manganese	0.09	mg/L		0.01	EPA 200.7	9/2/2011 3:52:41 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	9/7/2011 9:33:04 AM	BK
Molybdenum	ND	mg/L		0.01	EPA 200.8	9/1/2011 3:51:35 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	9/2/2011 3:52:41 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	9/1/2011 3:51:35 PM	MS
Uranium	0.0128	mg/L		0.0003	EPA 200.8	9/1/2011 3:51:35 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	9/1/2011 3:51:35 PM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	9/2/2011 3:52:41 PM	DG
<b>Metals - Suspended</b>							
Uranium	ND	mg/L		0.0003	EPA 200.8	9/9/2011 1:44:57 PM	MS
<b>Metals - Total</b>							
Iron	0.88	mg/L		0.05	EPA 200.7	9/7/2011 2:33:03 PM	DG
Manganese	0.10	mg/L		0.01	EPA 200.7	9/7/2011 2:33:03 PM	DG

These results apply only to the samples tested.

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  - 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

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1108611-001
ClientSample ID: PZM14-003-110831
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Date Reported 10/14/2011
Report ID S1108611001
WorkOrder: S1108611
CollectionDate: 8/31/2011 2:15:00 PM
DateReceived: 8/31/2011 3:58:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Gross Beta, Lead 210, etc.), Radionuclides - Suspended (Lead 210, Polonium 210, Radium 226, etc.), and Radionuclides - Total (Radon 222).

These results apply only to the samples tested.

RL - Reporting Limit

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Reviewed by: [Signature]
Lacey Ketron, Water Lab Supervisor



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Alkalinity**

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/01/11 16:25	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	Alkalinity, Total (As CaCO3)	593	5	601		98.7	90 - 110	

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	Alkalinity, Bicarbonate as HCO3	295	5	299	1.16		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	248	5	248	0.0408		20	

**Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/01/11 16:25	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	Electrical Conductivity	1130	5	1120		100	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	Electrical Conductivity	2010	5	2010	0		20	

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  - E Value above quantitation range
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### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	09/07/11 8:09	Mercury	ND	0.001					

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/07/11 8:07	Mercury	0.002	0.001	0.002		99.9	85 - 115	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108610-001D	09/07/11 9:29	Mercury	0.002	0.001	0.00244	ND	85.6	70 - 130	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108610-001D	09/07/11 9:31	Mercury	0.002	0.001	0.002	2.70	83.3	20	

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

Sample ID	RunNo: 74230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108610-001D	09/07/11 9:27	Mercury	ND	0.001	ND			20	

- Qualifiers:**
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  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits





### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/02/11 14:02	Aluminum	ND	0.1					
		Boron	ND	0.1					
		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: 74109	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/02/11 14:04	Aluminum	1.0	0.1	1		104	85 - 115	
		Boron	1.0	0.1	1		102	85 - 115	
		Chromium	1.03	0.01	1		103	85 - 115	
		Iron	1.04	0.05	1		104	85 - 115	
		Manganese	1.06	0.02	1		106	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.06	0.01	1		106	85 - 115	

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109004-003ES	09/02/11 16:06	Aluminum	0.6	0.1	0.5	ND	111	70 - 130	
		Boron	0.6	0.1	0.5	ND	110	70 - 130	
		Chromium	0.55	0.01	0.5	ND	110	70 - 130	
		Iron	0.56	0.05	0.5	ND	108	70 - 130	
		Manganese	0.55	0.02	0.5	ND	110	70 - 130	
		Nickel	0.54	0.01	0.5	ND	108	70 - 130	
		Zinc	0.56	0.01	0.5	ND	111	70 - 130	

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109004-003ESD	09/02/11 16:08	Aluminum	0.6	0.1	0.6	3.17	114	20	
		Boron	0.6	0.1	0.6	3.30	114	20	
		Chromium	0.57	0.01	0.55	3.04	113	20	
		Iron	0.57	0.05	0.56	2.54	111	20	
		Manganese	0.57	0.02	0.55	2.86	113	20	
		Nickel	0.55	0.01	0.54	3.11	111	20	
		Zinc	0.57	0.01	0.56	2.59	114	20	

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  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

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

Sample ID	RunNo: 74109	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109009-003CD	09/02/11 16:32	Aluminum	ND	0.1	ND			20	
		Boron	0.2	0.1	0.2	2.04		20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	0.05	0.02	0.05	2.33		20	
		Nickel	ND	0.01	ND			20	
		Zinc	ND	0.01	ND			20	

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

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

Sample ID	RunNo: 74051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/01/11 13:35	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: 74051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/01/11 13:31	Arsenic	0.103	0.005	0.1		103	85 - 115	
		Barium	ND	0.5	0.1		98.7	85 - 115	
		Cadmium	0.098	0.002	0.1		98.0	85 - 115	
		Copper	0.10	0.01	0.1		98.0	85 - 115	
		Lead	0.10	0.02	0.1		97.2	85 - 115	
		Molybdenum	0.10	0.02	0.1		101	85 - 115	
		Selenium	0.100	0.005	0.1		100	85 - 115	
		Uranium	0.096	0.001	0.1		96.1	85 - 115	
		Vanadium	0.09	0.02	0.1		94.0	85 - 115	

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  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

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

Sample ID	RunNo: 74051	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108609-001DS	09/01/11 15:39	Arsenic	1.17	0.005	1.1	ND	106	70 - 130	
		Barium	1.2	0.5	1.1	ND	102	70 - 130	
		Cadmium	1.12	0.002	1.1	ND	102	70 - 130	
		Copper	1.09	0.01	1.1	ND	99.3	70 - 130	
		Lead	1.08	0.02	1.1	ND	98.1	70 - 130	
		Molybdenum	1.20	0.02	1.1	ND	109	70 - 130	
		Selenium	1.12	0.005	1.1	ND	102	70 - 130	
		Uranium	1.43	0.001	1.1	0.338	99.1	70 - 130	
		Vanadium	1.09	0.02	1.1	ND	98.6	70 - 130	

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

Sample ID	RunNo: 74051	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108609-001DMSD	09/01/11 15:43	Arsenic	1.17	0.005	1.17	0.262	106	20	
		Barium	1.2	0.5	1.2	0.627	103	20	
		Cadmium	1.13	0.002	1.12	1.00	103	20	
		Copper	1.09	0.01	1.09	0.00769	99.3	20	
		Lead	1.07	0.02	1.08	0.661	97.5	20	
		Molybdenum	1.19	0.02	1.20	0.732	108	20	
		Selenium	1.11	0.005	1.12	0.391	101	20	
		Uranium	1.44	0.001	1.43	1.02	100	20	
		Vanadium	1.07	0.02	1.09	1.12	97.5	20	

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

Sample ID	RunNo: 74051	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108609-001DD	09/01/11 15:35	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	ND	0.01	ND			20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	
		Uranium	0.339	0.001	0.338	0.277		20	
		Vanadium	ND	0.02	ND			20	

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  - O Outside the Range of Dilutions
  - S Spike Recovery outside accepted recovery limits
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Fluoride by SM 4500**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/01/11 16:25	Fluoride	ND	0.1					

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	Fluoride	3.0	0.1	2.96		103	90 - 110	

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109009-002ASPK	09/01/11 21:37	Fluoride	2.1	0.1	2.5	0.9	44.6	80 - 120	S

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	Fluoride	0.3	0.1	0.3	0.559		20	

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-273	10/03/11 15:14	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-273	10/03/11 15:14	Gross Alpha (Dissolved)	83	2	73.6		112	83 - 133	
		Gross Beta (Dissolved)	135	3	126		107	88 - 115	

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108612-001FMS	10/03/11 15:14	Gross Alpha (Dissolved)	210	2	147	83	86.6	48 - 153	
		Gross Beta (Dissolved)	302	4	252	38	105	60 - 140	

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-002GDUP	10/03/11 15:14	Gross Alpha (Dissolved)	9	2	10	14.4		20	
		Gross Beta (Dissolved)	11	3	9	19.5		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	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:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/12/11 10:36	Chloride	ND	1					
		Sulfate	ND	1					

Sample ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/14/11 10:50	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/12/11 10:49	Chloride	31	1	30		102	90 - 110	
		Sulfate	146	1	150		97.7	90 - 110	

Sample ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/14/11 11:03	Chloride	31	1	30		102	90 - 110	
		Sulfate	144	1	150		96.3	90 - 110	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108615-001ASPK	09/13/11 2:51	Chloride	6	1	5	ND	118	80 - 120	
		Sulfate	61	1	40	24	92.6	80 - 120	

Sample ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109156-001ASPK	09/15/11 5:19	Chloride	111	1	130	5	81.5	80 - 120	
		Sulfate	1380	1	1040	473	86.9	80 - 120	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108615-001AD	09/13/11 2:38	Chloride	ND	1	ND			20	
		Sulfate	24	1	24	0.381		20	

Sample ID	RunNo: 74576	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001A	09/15/11 5:06	Chloride	5	1	5	1.32		20	
		Sulfate	476	1	473	0.652		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	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:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

Sample ID	RunNo: 74108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/02/11 14:02	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/14/11 10:10	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 74108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	09/02/11 14:06	Calcium	40	1	40		100	85 - 115	
		Magnesium	39	1	40		98.5	85 - 115	
		Potassium	40	1	40		99.0	85 - 115	
		Sodium	39	1	40		96.8	85 - 115	

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	09/14/11 10:15	Calcium	39	1	40		97.0	85 - 115	
		Magnesium	41	1	40		102	85 - 115	
		Potassium	39	1	40		96.5	85 - 115	
		Sodium	37	1	40		93.4	85 - 115	

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

Sample ID	RunNo: 74108	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109004-003BS	09/02/11 16:06	Calcium	104	1	50	55	98.5	70 - 130	
		Magnesium	59	1	50	5	109	70 - 130	
		Potassium	67	1	50	16	103	70 - 130	
		Sodium	85	1	50	28	113	70 - 130	

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109229-006AS	09/14/11 14:14	Calcium	55	1	50	3	104	70 - 130	
		Magnesium	57	1	50	ND	112	70 - 130	
		Potassium	53	1	50	2	102	70 - 130	
		Sodium	53	1	50	1	103	70 - 130	

<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	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:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

Sample ID	RunNo: 74108	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109004-003BSD	09/02/11 16:08	Calcium	105	1	104	1.34	101	20	
		Magnesium	61	1	59	2.32	111	20	
		Potassium	68	1	67	1.85	105	20	
		Sodium	86	1	85	1.60	116	20	

Sample ID	RunNo: 74567	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109229-006ASD	09/14/11 14:16	Calcium	55	1	55	1.42	105	20	
		Magnesium	57	1	57	1.23	113	20	
		Potassium	53	1	53	1.16	103	20	
		Sodium	53	1	53	1.22	104	20	

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

Sample ID	RunNo: 74108	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-002BD	09/02/11 16:01	Calcium	61	1	60	1.51		20	
		Magnesium	4	1	3	1.61		20	
		Potassium	9	1	9	2.80		20	
		Sodium	29	1	29	1.89		20	

Sample ID	RunNo: 74567	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109229-005AD	09/14/11 14:09	Calcium	1	1	1	0.520		20	
		Magnesium	ND	1	ND			20	
		Potassium	1	1	1	0.650		20	
		Sodium	ND	1	ND			20	

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/16/11 13:41	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/16/11 13:43	Nitrogen, Ammonia (As N)	10.1	0.1	10		101	90 - 110	

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109241-001B	09/16/11 15:13	Nitrogen, Ammonia (As N)	12.4	0.1	10	1.9	106	80 - 120	

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

Sample ID	RunNo: 74708	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109241-001B	09/16/11 15:12	Nitrogen, Ammonia (As N)	1.9	0.1	1.9	0.938		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	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:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Nitrogen, Nitrate-Nitrite (as N)**

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

Sample ID	RunNo: 74271	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/02/11 12:16	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 74271	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/02/11 12:18	Nitrogen, Nitrate-Nitrite (as N)	2.0	0.1	2.31		87.8	80 - 120	

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

Sample ID	RunNo: 74271	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108622-001B	09/02/11 12:34	Nitrogen, Nitrate-Nitrite (as N)	7.63	0.05	10	ND	76.3	80 - 120	S

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

Sample ID	RunNo: 74271	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108622-001B	09/02/11 12:33	Nitrogen, Nitrate-Nitrite (as N)	ND	0.05	ND			20	

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





### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272 10/10/11 15:29 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272 10/10/11 12:50 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272 10/11/11 16:16 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272 10/11/11 12:40 Polonium 210 (Suspended) ND 1

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 10/10/11 15:29 Lead 210 (Dissolved) 15 1 12.9 113 67.6 - 131

Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 PO 10/10/11 12:50 Polonium 210 (Dissolved) 3 1 2.42 119 35.1 - 175

Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 10/11/11 16:16 Lead 210 (Suspended) 14 1 12.9 108 60.3 - 141

Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 10/11/11 12:40 Polonium 210 (Suspended) 12 1 12.9 93.2 48.6 - 156

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS 10/10/11 15:29 Lead 210 (Dissolved) 20 1 12.9 6 103 66 - 133

Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS 10/10/11 12:50 Polonium 210 (Dissolved) 9 1 12.9 ND 71.4 20.9 - 160

Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS 10/11/11 16:16 Lead 210 (Suspended) 22 1 12.9 8 109 62.4 - 132

Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS 10/11/11 12:40 Polonium 210 (Suspended) 14 1 12.9 3 82.1 28 - 173

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



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 15:29 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 75584	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 12:50 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 75696	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/12/11 9:01 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 75697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/11/11 14:56 Polonium 210 (Suspended) ND 1 ND 20

**Radium 228**

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272 10/05/11 16:46 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 10/05/11 16:46 Radium 228 (Dissolved) 10 1 9.94 104 74.9 - 122

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108581-001FMS 10/05/11 16:46 Radium 228 (Dissolved) 10 1 9.94 ND 103 48.4 - 167

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

Sample ID	RunNo: 75417	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108583-001FDUP 10/05/11 16:46 Radium 228 (Dissolved) ND 1 ND 20

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



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Radium 226 by SM 7500**

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-255	09/15/11 9:32	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 75190	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-262	09/27/11 17:12	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-255	09/15/11 9:32	Radium 226 (Dissolved)	4.9	0.2	5.06		96.7	62.5 - 125	

Sample ID	RunNo: 75190	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-262	09/27/11 17:12	Radium 226 (Suspended)	4.8	0.2	5.06		94.5	56.4 - 132	

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108554-001FMS	09/15/11 9:32	Radium 226 (Dissolved)	4.7	0.2	5.06	ND	93.1	41.6 - 146	

Sample ID	RunNo: 75190	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108612-001FMS	09/27/11 17:12	Radium 226 (Suspended)	5.1	0.2	5.06	0.2	95.8	51.4 - 135	

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

Sample ID	RunNo: 74900	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108554-002FDUP	09/15/11 9:32	Radium 226 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 75190	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-004GDUP	09/27/11 17:12	Radium 226 (Suspended)	ND	0.2	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

Sample ID	RunNo: 75556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-263	10/03/11 9:12	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 75561	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-270	10/06/11 9:05	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-263	10/03/11 9:12	Thorium 230 (Dissolved)	12	0.2	12		95.6	67.1 - 134	

Sample ID	RunNo: 75561	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-270	10/06/11 9:05	Thorium 230 (Suspended)	14	0.2	12		111	69.2 - 127	

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

Sample ID	RunNo: 75556	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-001GDUP	10/03/11 9:12	Thorium 230 (Dissolved)	0.2	0.2	0.2	9.87		20	

Sample ID	RunNo: 75561	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109172-001EDUP	10/07/11 8:37	Thorium 230 (Suspended)	ND	0.2	ND			20	

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

Sample ID	RunNo: 74716	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R74716	09/01/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 74716	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R74716	09/01/11 0:00	Radon-222	22900	100	22500		102	75 - 125	L

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

Sample ID	RunNo: 74716	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108611-001A	09/01/11 0:00	Radon-222	870	50	1220	28.7		20	LR

**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	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:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**Silica as SiO2**

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

Sample ID	RunNo: 74111	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/02/11 14:02	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 74111	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/02/11 14:04	Silica as SiO2	2.1	0.1	2.14		99.9	85 - 115	

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

Sample ID	RunNo: 74111	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-002ED	09/02/11 16:01	Silica as SiO2	60.6	0.1	59.2	2.34		20	

**Solids By SM 2540**

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

Sample ID	RunNo: 74458	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	09/09/11 10:40	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 74458	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	09/09/11 10:45	Total Dissolved Solids (180)	220	10	226		95.6	90 - 110	

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

Sample ID	RunNo: 74458	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109174-001A	09/09/11 11:35	Total Dissolved Solids (180)	2700	10	2650	1.89		20	

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

**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** AUC LLC  
**Work Order:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5430	09/07/11 14:23	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5430	09/07/11 15:36	Iron	0.49	0.05	0.5		97.5	85 - 115	
		Manganese	0.20	0.02	0.2		99.7	85 - 115	

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109050-006ES	09/07/11 15:57	Iron	0.56	0.05	0.5	0.12	89.1	70 - 130	
		Manganese	0.22	0.02	0.2	0.03	94.9	70 - 130	

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

Sample ID	RunNo: 74237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109052-004ED	09/07/11 16:28	Iron	0.40	0.05	0.40	0.175		20	
		Manganese	ND	0.02	ND			20	

**Suspended Natural Uranium**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 74361	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/09/11 12:24	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/09/11 12:20	Uranium Suspended	0.103	0.0003	0.1		103	85 - 115	

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108581-001FS	09/09/11 13:20	Uranium Suspended	1.15	0.0003	1.1	0.0003	105	70 - 130	

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108581-001FMSD	09/09/11 13:24	Uranium Suspended	1.17	0.0003	1.15	1.33	106	20	

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

Sample ID	RunNo: 74361	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108581-001FD	09/09/11 13:08	Uranium Suspended	0.0003	0.0003	0.0003	5.08		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	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:** S1108611  
**Project:** Reno Creek Project

**Date:** 10/14/2011  
**Report ID:** S1108611001

**pH Water**

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/01/11 16:16	pH	8.6	0.1	8.48		102	90 - 110	

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

Sample ID	RunNo: 74055	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108582-001AD	09/01/11 17:59	pH	8.4	0.1	8.4	0.424		20	

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



**Inter-Mountain Labs**  
 Sheridan, WY and Gillette, WY  
 1673 Terra Ave.  
 Sheridan, WY 82801  
 (307) 672-9945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08371

- CHAIN OF CUSTODY RECORD -

Client Name <b>AUC LLC</b>		Report Address pcavendor@auc-llc.com; mickerson@treccorp.com; jehriver@treccorp.com		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Traci Dickson</i>		Telephone #		
Invoice Address <b>AUC LLC</b> 900 Warner Ct. Ste 150 Casper WY 82604		Contact Name <i>Traci Dickson</i>		Email <i>mickerson@treccorp.com</i>		Phone <i>307-265-0696</i>		Purchase Order #		
Sample Identification		Matrix		# of Containers		See Attached Table 1 (4.14, Guide 8, Radon 222)		REMARKS <i>Groundwater</i>		
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	IDENTIFICATION	Matrix	# of Containers	See Attached Table 2 (Air Particulate)	See Attached Table 3 (Vegetation)	See Attached Table 4 (Sediment)	
1							See Attached Table 5 (Soil)	See Attached Table 8 WYPDES Discharge	See Attached Table 9 (Blanks)	
2	25110 B61Z-50	8/31/11	1415	PZM14-003-110831	W	13				
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
LAB COMMENTS 10.9		Relinquished By (Signature/Printed) <i>Traci Dickson</i>		DATE 8/31/11		TIME 1558		Received By (Signature/Printed) <i>Shirley Davis</i>		
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS		
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input checked="" type="checkbox"/> Other		<input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Trip Blank <input type="checkbox"/> Other		<input type="checkbox"/> Standard turnaround <input checked="" type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied		<input type="checkbox"/> Compliance Monitoring? <input type="checkbox"/> Program (SDWA, NPDES,...) <input type="checkbox"/> PWSID / Permit # <input type="checkbox"/> Chlorinated?		<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N Sample Disposal: Lab <input checked="" type="checkbox"/> Client		