



Tuesday, December 06, 2011

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

RE: Reno Creek Project  
Orde

r No.: S1110278

Dear Phil Cavendor:

Inter-Mountain Laboratories received sample PZM14-004-111019 on October 19, 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: 12/6/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1110278

**CASE NARRATIVE**  
**Report ID:** S1110278001

Sample PZM14-004-111019 was received on October 19, 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.

Qualifiers by sample

S1110216-007 - Radiochemistry/Lead 210 (Dissolved) - RPD outside accepted recovery limits  
S1110278-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
LCS-R76354 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
MB-R76354 - General Parameters/Radon-222 - Analyzed by a contract laboratory

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: S1110278-001
ClientSample ID: PZM14-004-111019
COC: RC 08388

Date Reported 12/6/2011
Report ID S1110278001
WorkOrder: S1110278
CollectionDate: 10/19/2011 11:45:00 AM
DateReceived: 10/19/2011 4:15:00 PM
FieldSampler: TN
Matrix: Water

Comments

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

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: S1110278-001
ClientSample ID: PZM14-004-111019
COC: RC 08388

Date Reported 12/6/2011
Report ID S1110278001
WorkOrder: S1110278
CollectionDate: 10/19/2011 11:45:00 AM
DateReceived: 10/19/2011 4:15:00 PM
FieldSampler: TN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, 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

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1110278-001
ClientSample ID: PZM14-004-111019
COC: RC 08388

Date Reported 12/6/2011
Report ID S1110278001
WorkOrder: S1110278
CollectionDate: 10/19/2011 11:45:00 AM
DateReceived: 10/19/2011 4:15:00 PM
FieldSampler: TN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc) and Metals - Suspended (Uranium) and Metals - Total (Iron, Manganese).

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: S1110278-001
ClientSample ID: PZM14-004-111019
COC: RC 08388

Date Reported 12/6/2011
Report ID S1110278001
WorkOrder: S1110278
CollectionDate: 10/19/2011 11:45:00 AM
DateReceived: 10/19/2011 4:15:00 PM
FieldSampler: TN
Matrix: Water

Comments

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



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Alkalinity**

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/26/11 10:44	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/26/11 10:36	Alkalinity, Total (As CaCO3)	593	5	601		98.6	90 - 110	

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110266-001AD	10/26/11 14:38	Alkalinity, Bicarbonate as HCO3	813	5	811	0.199		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	666	5	665	0.199		20	

**Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/26/11 10:44	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/26/11 10:36	Electrical Conductivity	1100	5	1120		97.5	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 76177	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110266-001AD	10/26/11 14:38	Electrical Conductivity	5390	5	5390	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
  - 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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 76119	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	10/25/11 8:45	Mercury	ND	0.001					

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

Sample ID	RunNo: 76119	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/25/11 8:44	Mercury	0.002	0.001	0.002		99.6	85 - 115	

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

Sample ID	RunNo: 76119	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110266-004C	10/25/11 9:08	Mercury	0.002	0.001	0.00244	ND	96.4	70 - 130	

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

Sample ID	RunNo: 76119	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110266-004C	10/25/11 9:10	Mercury	0.002	0.001	0.002	0.464	96.8	20	

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

Sample ID	RunNo: 76119	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110266-004C	10/25/11 9:07	Mercury	ND	0.001	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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

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

Sample ID	RunNo: 76038	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/21/11 12:29	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: 76038	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	10/21/11 12:31	Aluminum	1.0	0.1	1		98.6	85 - 115	
		Boron	1.0	0.1	1		97.8	85 - 115	
		Chromium	1.02	0.01	1		102	85 - 115	
		Iron	0.99	0.05	1		99.4	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.02	0.01	1		102	85 - 115	
		Zinc	1.04	0.01	1		104	85 - 115	

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

Sample ID	RunNo: 76038	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110281-001DS	10/21/11 12:59	Aluminum	0.6	0.1	0.5	ND	113	70 - 130	
		Boron	0.5	0.1	0.5	ND	102	70 - 130	
		Chromium	0.52	0.01	0.5	ND	104	70 - 130	
		Iron	0.54	0.05	0.5	0.05	97.7	70 - 130	
		Manganese	0.77	0.02	0.5	0.30	93.9	70 - 130	
		Nickel	0.49	0.01	0.5	ND	97.6	70 - 130	
		Zinc	0.52	0.01	0.5	0.01	102	70 - 130	

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

Sample ID	RunNo: 76038	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110281-001DSD	10/21/11 13:01	Aluminum	0.6	0.1	0.6	2.31	110	20	
		Boron	0.5	0.1	0.5	0.240	102	20	
		Chromium	0.54	0.01	0.52	3.03	108	20	
		Iron	0.56	0.05	0.54	2.53	100	20	
		Manganese	0.78	0.02	0.77	1.63	96.4	20	
		Nickel	0.51	0.01	0.49	4.10	102	20	
		Zinc	0.55	0.01	0.52	5.90	108	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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

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

Sample ID	RunNo: 76038	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110280-001DD	10/21/11 12:54	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.94	0.05	0.93	0.548		20	
		Manganese	0.23	0.02	0.22	0.491		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: 75983	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/20/11 13:19	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: 75983	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/20/11 13:15	Arsenic	0.097	0.005	0.1		96.9	85 - 115	
		Barium	ND	0.5	0.1		94.0	85 - 115	
		Cadmium	0.095	0.002	0.1		95.4	85 - 115	
		Copper	0.10	0.01	0.1		98.5	85 - 115	
		Lead	0.10	0.02	0.1		97.3	85 - 115	
		Molybdenum	0.09	0.02	0.1		94.6	85 - 115	
		Selenium	0.097	0.005	0.1		97.3	85 - 115	
		Uranium	0.097	0.001	0.1		96.5	85 - 115	
		Vanadium	0.10	0.02	0.1		96.0	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	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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Dissolved Metals by ICPMS EPA 200.8 - Water**Sample Type **MS** Units: mg/L

Sample ID	RunNo: 75983	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110299-001CS	10/20/11 14:49	Arsenic	1.22	0.005	1.1	0.037	107	70 - 130	
		Barium	1.2	0.5	1.1	ND	104	70 - 130	
		Cadmium	1.16	0.002	1.1	ND	105	70 - 130	
		Copper	1.20	0.01	1.1	ND	109	70 - 130	
		Lead	1.18	0.02	1.1	ND	107	70 - 130	
		Molybdenum	1.19	0.02	1.1	ND	107	70 - 130	
		Selenium	1.06	0.005	1.1	ND	96.3	70 - 130	
		Uranium	1.21	0.001	1.1	0.007	109	70 - 130	
		Vanadium	1.17	0.02	1.1	ND	107	70 - 130	

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

Sample ID	RunNo: 75983	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110299-001CMSD	10/20/11 14:53	Arsenic	1.13	0.005	1.22	6.98	99.5	20	
		Barium	1.1	0.5	1.2	7.90	95.9	20	
		Cadmium	1.08	0.002	1.16	6.68	98.3	20	
		Copper	1.12	0.01	1.20	6.89	102	20	
		Lead	1.09	0.02	1.18	7.85	98.8	20	
		Molybdenum	1.12	0.02	1.19	6.01	101	20	
		Selenium	1.01	0.005	1.06	4.91	91.6	20	
		Uranium	1.15	0.001	1.21	5.16	104	20	
		Vanadium	1.11	0.02	1.17	5.07	101	20	

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

Sample ID	RunNo: 75983	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110299-001CD	10/20/11 14:46	Arsenic	0.039	0.005	0.037	5.18		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	0.008	0.001	0.007	1.98		20	
		Vanadium	ND	0.02	ND			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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/26/11 10:44	Fluoride	ND	0.1					

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/26/11 10:36	Fluoride	2.8	0.1	2.96		95.0	90 - 110	

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110261-001ASPK	10/26/11 13:51	Fluoride	2.8	0.1	2.5	0.6	87.1	80 - 120	

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110266-001AD	10/26/11 14:38	Fluoride	0.3	0.1	0.3	2.11		20	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-313	11/10/11 19:51	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-313	11/10/11 19:51	Gross Alpha (Dissolved)	84	2	73.6		113	83 - 133	
		Gross Beta (Dissolved)	132	3	126		105	88 - 115	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110248-001FMS	11/10/11 19:51	Gross Alpha (Dissolved)	122	3	147	ND	83.2	48 - 153	
		Gross Beta (Dissolved)	285	4	252	5	111	60 - 140	

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

Sample ID	RunNo: 76852	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110249-001FDUP	11/10/11 19:51	Gross Alpha (Dissolved)	ND	3	4			20	
		Gross Beta (Dissolved)	4	4	5	13.0		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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Anions by ION Chromatography**

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

Sample ID	RunNo: 76046	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/21/11 13:46	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 76046	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	10/21/11 14:32	Chloride	29	1	30		95.4	90 - 110	
		Sulfate	138	1	150		91.7	90 - 110	

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

Sample ID	RunNo: 76046	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110271-001ASPK	10/22/11 4:24	Chloride	133	1	130	15	90.8	80 - 120	
		Sulfate	953	1	1040	16	90.1	80 - 120	

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

Sample ID	RunNo: 76046	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110271-001AD	10/22/11 4:09	Chloride	15	1	15	2.58		20	
		Sulfate	18	1	16	8.75		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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Cations by ICP (Method 200.7)**

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

Sample ID	RunNo: 76037	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/21/11 12:29	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 76037	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	10/21/11 12:33	Calcium	39	1	40		98.1	85 - 115	
		Magnesium	39	1	40		98.2	85 - 115	
		Potassium	40	1	40		100	85 - 115	
		Sodium	39	1	40		96.8	85 - 115	

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

Sample ID	RunNo: 76037	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110317-004AS	10/21/11 14:04	Calcium	342	1	100	265	76.2	70 - 130	
		Magnesium	170	1	100	74	96.3	70 - 130	
		Potassium	137	1	100	20	117	70 - 130	
		Sodium	550	1	100	478	72.0	70 - 130	

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

Sample ID	RunNo: 76037	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110317-004ASD	10/21/11 14:06	Calcium	343	1	342	0.398	77.6	20	
		Magnesium	173	1	170	1.60	99.1	20	
		Potassium	142	1	137	3.43	122	20	
		Sodium	559	1	550	1.53	80.4	20	

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

Sample ID	RunNo: 76037	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110317-003AD	10/21/11 13:59	Calcium	155	1	155	0.0582		20	
		Magnesium	74	1	74	0.645		20	
		Potassium	18	1	18	0.398		20	
		Sodium	1100	1	1100	0.355		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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	10/25/11 16:01	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	10/25/11 16:03	Nitrogen, Ammonia (As N)	10.0	0.1	10		99.8	90 - 110	

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110304-001B	10/25/11 17:45	Nitrogen, Ammonia (As N)	8.7	0.1	10	ND	86.3	80 - 120	

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

Sample ID	RunNo: 76143	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110304-001B	10/25/11 17:44	Nitrogen, Ammonia (As N)	ND	0.1	ND			20	

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

Sample ID	RunNo: 76113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/24/11 9:53	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 76113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	10/24/11 9:55	Nitrogen, Nitrate-Nitrite (as N)	2.1	0.1	2.31		92.7	90 - 110	

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

Sample ID	RunNo: 76113	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110279-001C	10/24/11 12:11	Nitrogen, Nitrate-Nitrite (as N)	10.2	0.1	10	ND	101	80 - 120	

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

Sample ID	RunNo: 76113	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110279-001C	10/24/11 12:10	Nitrogen, Nitrate-Nitrite (as N)	0.1	0.1	ND			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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

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

Sample ID	RunNo: 77209	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-300	11/17/11 12:56	Lead 210 (Suspended)	ND	1					
Sample ID	RunNo: 77210	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-300	11/17/11 9:45	Polonium 210 (Suspended)	ND	1					
Sample ID	RunNo: 77384	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-318	11/18/11 12:42	Polonium 210 (Dissolved)	ND	1					
Sample ID	RunNo: 77487	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-297	11/10/11 11:01	Lead 210 (Dissolved)	ND	1					

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

Sample ID	RunNo: 77209	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-300	11/17/11 12:56	Lead 210 (Suspended)	13	1	12.9		102	60.3 - 141	
Sample ID	RunNo: 77210	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-300 PO	11/17/11 9:45	Polonium 210 (Suspended)	3	1	2.11		123	48.6 - 156	
Sample ID	RunNo: 77384	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-318 PO	11/18/11 12:42	Polonium 210 (Dissolved)	5	1	3.89		139	35.1 - 175	
Sample ID	RunNo: 77487	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-297	11/10/11 11:01	Lead 210 (Dissolved)	16	1	12.9		127	67.6 - 131	

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

Sample ID	RunNo: 77209	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110277-001FMS	11/17/11 12:56	Lead 210 (Suspended)	15	1	12.9	1	107	62.4 - 132	
Sample ID	RunNo: 77210	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110277-001FMS	11/17/11 9:45	Polonium 210 (Suspended)	12	1	12.9	ND	93.2	28 - 173	
Sample ID	RunNo: 77384	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110216-001DMS	11/18/11 12:42	Polonium 210 (Dissolved)	12	1	12.8	ND	96.0	20.9 - 160	
Sample ID	RunNo: 77487	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110216-001DMS	11/10/11 11:01	Lead 210 (Dissolved)	16	1	12.9	2	107	66 - 133	

**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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 77209	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1110279-001FDUP 11/17/11 12:56 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 77210	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1110279-001FDUP 11/17/11 9:45 Polonium 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 77384	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1110216-003DDUP 11/18/11 12:42 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 77487	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1110216-007DDUP 11/10/11 11:01 Lead 210 (Dissolved) 1 1 ND 20 R

**Radium 228**

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

Sample ID	RunNo: 77617	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

MB11-333 12/02/11 18:09 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 77617	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

LCS11-333 12/02/11 18:09 Radium 228 (Dissolved) 8 1 9.87 84.1 74.9 - 122

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

Sample ID	RunNo: 77617	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
-----------	--------------	---------	--------	----	-------	----------	------	--------------	------

S1110251-001FMS 12/02/11 18:09 Radium 228 (Dissolved) 10 1 9.87 ND 104 48.4 - 167

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

Sample ID	RunNo: 77617	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
-----------	--------------	---------	--------	----	----------	------	------	--------------	------

S1110276-001FDUP 12/02/11 18:09 Radium 228 (Dissolved) 2 1 2 12.1 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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Radium 226 by SM 7500**

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

Sample ID	RunNo: 76871	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-304	11/08/11 11:19	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 76903	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-299	10/30/11 8:54	Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 76871	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-304	11/08/11 11:19	Radium 226 (Suspended)	5.6	0.2	5.06		110	56.4 - 132	

Sample ID	RunNo: 76903	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-299	10/30/11 8:54	Radium 226 (Dissolved)	5.0	0.2	5.06		98.9	62.5 - 125	

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

Sample ID	RunNo: 76871	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110276-001FMS	11/08/11 11:19	Radium 226 (Suspended)	5.6	0.2	5.06	ND	111	51.4 - 135	

Sample ID	RunNo: 76903	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110277-001FMS	10/30/11 8:54	Radium 226 (Dissolved)	7.6	0.2	5.06	2.8	95.2	41.6 - 146	

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

Sample ID	RunNo: 76871	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110275-001FDUP	11/08/11 11:19	Radium 226 (Suspended)	ND	0.2	ND			20	

Sample ID	RunNo: 76903	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110279-001FDUP	10/30/11 8:54	Radium 226 (Dissolved)	0.7	0.2	0.8	13.0		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - 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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

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

Sample ID	RunNo: 76662	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-298	11/03/11 8:14	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 77023	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-305	11/14/11 9:11	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 76662	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-298	11/03/11 8:14	Thorium 230 (Dissolved)	12	0.2	12		99.1	67.1 - 134	

Sample ID	RunNo: 77023	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-305	11/10/11 10:14	Thorium 230 (Dissolved)	14	0.2	12		112	67.1 - 134	
		Thorium 230 (Suspended)	14	0.2	12		112	69.2 - 127	

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

Sample ID	RunNo: 76662	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110246-001F DUP	11/04/11 8:46	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 77023	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110428-004EDUP	11/14/11 9:11	Thorium 230 (Dissolved)	0.04 ± 0.1	0.2	ND			20	

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

Sample ID	RunNo: 76354	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R76354	10/20/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 76354	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R76354	10/20/11 0:00	Radon-222	23700	100	22500		105	75 - 125	L

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

Sample ID	RunNo: 76354	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110278-001A	10/21/11 0:00	Radon-222	310	50	370	16.4		20	L

**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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**Silica as SiO2**

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

Sample ID	RunNo: 76039	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	10/21/11 12:29	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 76039	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	10/21/11 12:31	Silica as SiO2	2.1	0.1	2.14		97.5	85 - 115	

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

Sample ID	RunNo: 76039	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110280-001DD	10/21/11 12:54	Silica as SiO2	17.1	0.1	16.8	1.59		20	

**Solids By SM 2540**

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

Sample ID	RunNo: 76079	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	10/21/11 8:40	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 76079	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	10/21/11 8:45	Total Dissolved Solids (180)	230	10	226		102	90 - 110	

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

Sample ID	RunNo: 76079	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110275-001A	10/21/11 9:00	Total Dissolved Solids (180)	2020	10	2020	0.397		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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

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

Sample ID	RunNo: 76092	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5572	10/24/11 18:19	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 76092	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5572	10/24/11 18:21	Iron	0.47	0.05	0.5		93.6	85 - 115	
		Manganese	0.19	0.02	0.2		94.2	85 - 115	

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

Sample ID	RunNo: 76092	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110276-001ES	10/24/11 18:31	Iron	0.53	0.05	0.5	0.09	88.9	70 - 130	
		Manganese	0.46	0.02	0.2	0.28	89.3	70 - 130	

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

Sample ID	RunNo: 76092	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110275-001ED	10/24/11 18:26	Iron	0.09	0.05	0.09	0.229		20	
		Manganese	0.28	0.02	0.28	0.214		20	

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

Sample ID	RunNo: 76089	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	10/24/11 11:54	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 76089	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	10/24/11 11:50	Uranium Suspended	0.0945	0.0003	0.1		94.5	85 - 115	

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

Sample ID	RunNo: 76089	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1110275-001FS	10/24/11 15:03	Uranium Suspended	1.04	0.0003	1.1	ND	94.5	70 - 130	

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

Sample ID	RunNo: 76089	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1110275-001FMSD	10/24/11 15:07	Uranium Suspended	1.05	0.0003	1.04	0.741	95.2	20	

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

Sample ID	RunNo: 76089	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110275-001FD	10/24/11 14:59	Uranium Suspended	ND	0.0003	ND			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:** S1110278  
**Project:** Reno Creek Project

**Date:** 12/6/2011  
**Report ID:** S1110278001

**pH Water**

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	10/26/11 10:36	pH	8.5	0.1	8.48		100	90 - 110	

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

Sample ID	RunNo: 76177	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1110266-001AD	10/26/11 14:38	pH	7.8	0.1	7.8	0.0286		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) 672-8945

**- CHAIN OF CUSTODY RECORD -**

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08388

Telephone #

Sampler (Signature/Printed) *Traci Nickerson*

Project Identification

Client Name: AUC LLC  
 Report Address: Reno Creek Project  
 Contact Name: Traci Nickerson  
 Email: tracenickerson@treccorp.com  
 Phone: 307-265-0696  
 Purchase Order #: 307-265-0696

Invoice Address: AUC LLC  
 900 Warner Ct. Ste 150  
 Casper WY 82601

LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	See Attached Table 1 (4.14, Guide 8, Radon 222)	See Attached Table 2 (Air Particulate)	See Attached Table 3 (Vegetation)	See Attached Table 4 (Sediment)	See Attached Table 5 (Soil)	See Attached Table 8 WYDES Discharge	See Attached Table 9 (Blanks)
2	10/19/11	11:45	PZM14-004-11019 W 16		16	X						
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

REMARKS

*Groundwater*

LAB COMMENTS: Relinquished By (Signature/Printed) *Traci Nickerson* DATE: 10/19/11 TIME: 10:15  
 Received By (Signature/Printed) *Kathy Boyd* DATE: 10/20/11 TIME: 10:30

2.0

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	Water <input checked="" type="checkbox"/> WT Soil <input type="checkbox"/> SL Solid <input type="checkbox"/> SD Trip Blank <input type="checkbox"/> TB Other <input type="checkbox"/> OT	<input checked="" type="checkbox"/> Check desired service <input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied	Compliance Monitoring? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sample Disposal: Lab <input checked="" type="checkbox"/> Client	<i>Extra Radons for</i> <i>EMC Sherida</i>