



Tuesday, August 23, 2011

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

RE: Reno Creek Project  
Orde

r No.: S1107426

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples OM2-001-110726 on July 26, 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: 8/23/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1107426

**CASE NARRATIVE**  
**Report ID:** S1107426001

Sample OM2-001-110726 was received on July 26, 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

S1107419-001 - Radiochemistry/Gross Beta (Dissolved) - RPD outside accepted recovery limits  
S1107454-001 - Radiochemistry/Lead 210 (Dissolved) - RPD outside accepted recovery limits  
S1107426-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
LCS-R73363 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
MB-R73363 - General Parameters/Radon-222 - Analyzed by a contract laboratory  
S1107428-003 - Cations/Sodium - Spike Recovery outside accepted recovery limits (1)

(1) Spike recovery outside acceptance criteria due to presence of analyte in the sample that greatly exceeded level of spike used. Data approved because all other QC were within acceptance limits.

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:** S1107426-001  
**ClientSample ID:** OM2-001-110726  
**COC:** RC 08321

**Date Reported:** 8/23/2011  
**Report ID:** S1107426001

**WorkOrder:** S1107426  
**CollectionDate:** 7/26/2011 12:00:00 PM  
**DateReceived:** 7/26/2011 4:49:00 PM  
**FieldSampler:** RD  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
<b>Field</b>						
pH Reading 1	10.46	s.u.			Field	7/26/2011 12:00:00 PM
pH Reading 2	10.48	s.u.			Field	7/26/2011 12:00:00 PM
pH Reading 3	10.48	s.u.			Field	7/26/2011 12:00:00 PM
Conductivity Reading 1	482	µmhos/cm			Field	7/26/2011 12:00:00 PM
Conductivity Reading 2	481	µmhos/cm			Field	7/26/2011 12:00:00 PM
Conductivity Reading 3	480	µmhos/cm			Field	7/26/2011 12:00:00 PM
Turbidity Reading 1	16.7	NTU			Field	7/26/2011 12:00:00 PM
Turbidity Reading 2	15.7	NTU			Field	7/26/2011 12:00:00 PM
Turbidity Reading 3	16.0	NTU			Field	7/26/2011 12:00:00 PM
Dissolved Oxygen Reading 1	1.94	mg/L			Field	7/26/2011 12:00:00 PM
Dissolved Oxygen Reading 2	1.87	mg/L			Field	7/26/2011 12:00:00 PM
Dissolved Oxygen Reading 3	1.80	mg/L			Field	7/26/2011 12:00:00 PM
Temperature Reading 1	16.46	°C			Field	7/26/2011 12:00:00 PM
Temperature Reading 2	16.70	°C			Field	7/26/2011 12:00:00 PM
Temperature Reading 3	16.71	°C			Field	7/26/2011 12:00:00 PM
Oxygen Reduction Potential Reading	70.7	mV			Field	7/26/2011 12:00:00 PM
Oxygen Reduction Potential Reading	70.8	mV			Field	7/26/2011 12:00:00 PM
Oxygen Reduction Potential Reading	70.1	mV			Field	7/26/2011 12:00:00 PM
Purge Rate Reading 1	325	ml/min			Field	7/26/2011 12:00:00 PM
Purge Rate Reading 2	325	ml/min			Field	7/26/2011 12:00:00 PM
Purge Rate Reading 3	325	ml/min			Field	7/26/2011 12:00:00 PM
Water Level Reading 1	149.67	Ft			Field	7/26/2011 12:00:00 PM
Water Level Reading 2	150.09	Ft			Field	7/26/2011 12:00:00 PM
Water Level Reading 3	150.48	Ft			Field	7/26/2011 12:00:00 PM

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

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1107426-001
ClientSample ID: OM2-001-110726
COC: RC 08321

Date Reported 8/23/2011
Report ID S1107426001
WorkOrder: S1107426
CollectionDate: 7/26/2011 12:00:00 PM
DateReceived: 7/26/2011 4:49:00 PM
FieldSampler: RD
Matrix: Water

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).

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: S1107426-001
ClientSample ID: OM2-001-110726
COC: RC 08321

Date Reported 8/23/2011
Report ID S1107426001
WorkOrder: S1107426
CollectionDate: 7/26/2011 12:00:00 PM
DateReceived: 7/26/2011 4:49:00 PM
FieldSampler: RD
Matrix: Water

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

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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

- 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: S1107426-001
ClientSample ID: OM2-001-110726
COC: RC 08321

Date Reported 8/23/2011
Report ID S1107426001
WorkOrder: S1107426
CollectionDate: 7/26/2011 12:00:00 PM
DateReceived: 7/26/2011 4:49:00 PM
FieldSampler: RD
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, Polonium 210, Radium 226, Radium 228, Thorium 230) and Radionuclides - Suspended (Lead 210, Polonium 210, Radium 226, Thorium 230). Total Radon 222 is also listed.

These results apply only to the samples tested.

RL - Reporting Limit

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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

- 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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**Alkalinity**

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/27/11 15:35	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	Alkalinity, Total (As CaCO3)	596	5	601		99.3	90 - 110	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107436-001AD	07/27/11 20:12	Alkalinity, Bicarbonate as HCO3	1610	5	1680	4.18		20	
		Alkalinity, Carbonate as CO3	14	5	17	13.6		20	
		Alkalinity, Total (As CaCO3)	1340	5	1400	4.36		20	

**Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/27/11 15:35	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	Electrical Conductivity	1100	5	1120		97.7	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107436-001AD	07/27/11 20:12	Electrical Conductivity	2400	5	2400	0		20	

- Qualifiers:**
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  - 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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	08/03/11 10:07	Mercury	ND	0.001					

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/03/11 10:06	Mercury	0.002	0.001	0.002		95.9	85 - 115	

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107426-001D	08/03/11 10:37	Mercury	0.002	0.001	0.00244	ND	93.8	70 - 130	

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107426-001D	08/03/11 10:39	Mercury	0.002	0.001	0.002	1.03	92.9	20	

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001D	08/03/11 10:36	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
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  - 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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/27/11 10:46	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: 72707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	07/27/11 10:48	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		102	85 - 115	
		Chromium	1.05	0.01	1		105	85 - 115	
		Iron	1.00	0.05	1		100	85 - 115	
		Manganese	1.00	0.02	1		99.6	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	0.99	0.01	1		99.3	85 - 115	

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107432-001DS	07/27/11 20:40	Aluminum	4.8	0.1	5.5	ND	87.1	70 - 130	
		Boron	5.6	0.1	5.5	0.7	89.3	70 - 130	
		Chromium	4.58	0.01	5.5	ND	83.4	70 - 130	
		Iron	4.64	0.05	5.5	ND	84.4	70 - 130	
		Manganese	4.58	0.02	5.5	0.07	82.1	70 - 130	
		Nickel	4.65	0.01	5.5	ND	84.6	70 - 130	
		Zinc	4.34	0.01	5.5	ND	79.0	70 - 130	

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107432-001DSD	07/27/11 20:42	Aluminum	5.3	0.1	4.8	9.75	95.7	20	
		Boron	6.0	0.1	5.6	7.65	97.0	20	
		Chromium	5.00	0.01	4.58	9.09	90.9	20	
		Iron	5.09	0.05	4.64	9.55	92.5	20	
		Manganese	4.99	0.02	4.58	8.90	89.5	20	
		Nickel	5.09	0.01	4.65	9.39	92.5	20	
		Zinc	4.64	0.01	4.34	6.92	84.4	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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107420-002CD	07/27/11 19:33	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.14	0.05	0.14	0.494		20	
		Manganese	0.14	0.02	0.14	0.991		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: 72692	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	07/27/11 13:46	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: 72692	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	07/27/11 13:42	Arsenic	0.100	0.005	0.1		100	85 - 115	
		Barium	ND	0.5	0.1		91.2	85 - 115	
		Cadmium	0.101	0.002	0.1		101	85 - 115	
		Copper	0.10	0.01	0.1		98.6	85 - 115	
		Lead	0.10	0.02	0.1		97.5	85 - 115	
		Molybdenum	0.10	0.02	0.1		97.7	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Uranium	0.097	0.001	0.1		97.1	85 - 115	
		Vanadium	0.10	0.02	0.1		96.4	85 - 115	

- Qualifiers:**
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  - 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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

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

Sample ID	RunNo: 72692	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107425-001DS	07/27/11 15:02	Arsenic	1.13	0.005	1.1	0.006	102	70 - 130	
		Barium	1.1	0.5	1.1	ND	93.8	70 - 130	
		Cadmium	1.17	0.002	1.1	ND	106	70 - 130	
		Copper	1.12	0.01	1.1	ND	101	70 - 130	
		Lead	1.12	0.02	1.1	ND	102	70 - 130	
		Molybdenum	1.14	0.02	1.1	ND	102	70 - 130	
		Selenium	1.13	0.005	1.1	0.007	102	70 - 130	
		Uranium	1.13	0.001	1.1	ND	103	70 - 130	
		Vanadium	1.12	0.02	1.1	ND	101	70 - 130	

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

Sample ID	RunNo: 72692	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107425-001DMSD	07/27/11 15:13	Arsenic	1.09	0.005	1.13	3.19	99.0	20	
		Barium	1.1	0.5	1.1	0.194	94.0	20	
		Cadmium	1.16	0.002	1.17	0.470	105	20	
		Copper	1.08	0.01	1.12	3.20	98.2	20	
		Lead	1.06	0.02	1.12	5.43	96.6	20	
		Molybdenum	1.10	0.02	1.14	3.65	98.4	20	
		Selenium	1.09	0.005	1.13	3.41	98.3	20	
		Uranium	1.10	0.001	1.13	2.51	100	20	
		Vanadium	1.06	0.02	1.12	5.32	95.5	20	

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

Sample ID	RunNo: 72692	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107425-001DD	07/27/11 14:58	Arsenic	0.005	0.005	0.006	2.60		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	0.007	0.005	0.007	0.588		20	
		Uranium	ND	0.001	ND			20	
		Vanadium	ND	0.02	ND			20	

- Qualifiers:**
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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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/27/11 15:35	Fluoride	ND	0.1					

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	Fluoride	3.0	0.1	2.96		103	90 - 110	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107442-004ASPK	07/27/11 21:41	Fluoride	2.6	0.1	2.5	ND	105	80 - 120	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107420-002AD	07/27/11 17:32	Fluoride	0.4	0.1	0.4	0		20	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-214	08/04/11 9:33	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-214	08/04/11 9:33	Gross Alpha (Dissolved)	84	2	73.6		115	83 - 133	
		Gross Beta (Dissolved)	135	3	126		107	88 - 115	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107454-001FMS	08/08/11 21:30	Gross Alpha (Dissolved)	136	2	147	5	88.8	48 - 153	
		Gross Beta (Dissolved)	285	4	252	21	105	60 - 140	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107419-001FDUP	08/04/11 9:33	Gross Alpha (Dissolved)	9	2	10	6.07		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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**Anions by ION Chromatography**

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/01/11 8:39	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/01/11 8:50	Chloride	31	1	30		103	90 - 110	
		Sulfate	142	1	150		94.9	90 - 110	

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001ASPK	08/01/11 15:38	Chloride	76	1	80	9	84.5	80 - 120	
		Sulfate	1180	1	640	570	95.0	80 - 120	

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107427-001AD	08/01/11 15:26	Chloride	9	1	9	0.669		20	
		Sulfate	569	1	570	0.0929		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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/27/11 10:46	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 73167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/08/11 9:22	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	07/27/11 10:51	Calcium	40	1	40		99.7	85 - 115	
		Magnesium	41	1	40		101	85 - 115	
		Potassium	40	1	40		101	85 - 115	
		Sodium	39	1	40		96.7	85 - 115	

Sample ID	RunNo: 73167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/08/11 9:26	Calcium	39	1	40		98.5	85 - 115	
		Magnesium	39	1	40		98.2	85 - 115	
		Potassium	40	1	40		99.7	85 - 115	
		Sodium	39	1	40		97.4	85 - 115	

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107428-003AS	07/27/11 20:09	Calcium	43	1	25	19	95.9	70 - 130	
		Magnesium	37	1	25	12	100	70 - 130	
		Potassium	39	1	25	12	111	70 - 130	
		Sodium	284	1	25	296	-45.8	70 - 130	S

Sample ID	RunNo: 73167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108110-001AS	08/08/11 11:26	Calcium	221	1	25	201	78.7	70 - 130	
		Magnesium	74	1	25	49	102	70 - 130	
		Potassium	39	1	25	7	127	70 - 130	
		Sodium	33	1	25	3	118	70 - 130	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107428-003ASD	07/27/11 20:11	Calcium	47	1	43	8.28	110	20	
		Magnesium	40	1	37	8.37	112	20	
		Potassium	43	1	39	9.60	126	20	
		Sodium	284	1	284	0.0861	-46.8	20	

Sample ID	RunNo: 73167	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108110-001ASD	08/08/11 11:28	Calcium	219	1	221	1.05	69.4	20	
		Magnesium	73	1	74	1.21	98.0	20	
		Potassium	38	1	39	2.79	123	20	
		Sodium	32	1	33	3.56	113	20	

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107428-002AD	07/27/11 20:04	Calcium	39	1	38	1.04		20	
		Magnesium	21	1	21	3.56		20	
		Potassium	14	1	14	0.862		20	
		Sodium	367	1	360	1.90		20	

Sample ID	RunNo: 73167	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108108-001AD	08/08/11 11:21	Calcium	10	1	9	2.47		20	
		Magnesium	5	1	5	3.16		20	
		Sodium	820	1	790	3.89		20	

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/28/11 9:48	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	07/28/11 9:50	Nitrogen, Ammonia (As N)	8.5	0.1	8.93		95.2	90 - 110	

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001C	07/28/11 12:22	Nitrogen, Ammonia (As N)	9.7	0.1	10	0.3	94.6	80 - 120	

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107427-001C	07/28/11 12:21	Nitrogen, Ammonia (As N)	0.3	0.1	0.3	5.78		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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	07/31/11 11:42	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	07/31/11 11:44	Nitrogen, Nitrate-Nitrite (as N)	10.1	0.1	10		101	90 - 110	

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107455-001C	07/31/11 12:45	Nitrogen, Nitrate-Nitrite (as N)	9.6	0.1	10	0.3	93.4	80 - 120	

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107455-001C	07/31/11 12:44	Nitrogen, Nitrate-Nitrite (as N)	0.3	0.1	0.3	0.999		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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-217 08/16/11 11:09 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-217 08/15/11 17:07 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-221 08/18/11 9:45 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-221 08/16/11 16:44 Polonium 210 (Suspended) ND 1

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-217 08/16/11 11:09 Lead 210 (Dissolved) 16 1 13 126 67.6 - 131

Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-217 PO 08/15/11 17:07 Polonium 210 (Dissolved) 4 1 3.21 130 35.1 - 175

Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-221 08/18/11 9:45 Lead 210 (Suspended) 13 1 13 96.9 60.3 - 141

Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-221 08/16/11 16:44 Polonium 210 (Suspended) 3 1 3.15 100 48.6 - 156

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107427-001FMS 08/16/11 11:09 Lead 210 (Dissolved) 110 1 13 101 70.1 66 - 133

Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107427-001FMS 08/15/11 17:07 Polonium 210 (Dissolved) 16 1 13 10 43.0 20.9 - 160

Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107418-001FMS 08/18/11 9:45 Lead 210 (Suspended) 13 1 13 ND 97.6 62.4 - 132

Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107418-001FMS 08/16/11 16:44 Polonium 210 (Suspended) 13 1 13 ND 102 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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**Lead 210 and Polonium 210**

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107454-001FDUP	08/16/11 11:09	Lead 210 (Dissolved)	1	1	3	59.9		20	R
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Sample ID	RunNo: 73549	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107454-001FDUP	08/15/11 17:07	Polonium 210 (Dissolved)	ND	1	ND			20	
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Sample ID	RunNo: 73556	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107425-001FDUP	08/18/11 9:45	Lead 210 (Suspended)	ND	1	ND			20	
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Sample ID	RunNo: 73557	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107425-001FDUP	08/16/11 16:44	Polonium 210 (Suspended)	ND	1	ND			20	
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**Radium 228**

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

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-220B	08/12/11 16:13	Radium 228 (Dissolved)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-220B	08/12/11 16:13	Radium 228 (Dissolved)	10	1	9.3		109	74.9 - 122	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108010-001CMS	08/12/11 16:13	Radium 228 (Dissolved)	9	1	9.3	ND	94.5	48.4 - 167	
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Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108020-002ADUP	08/12/11 16:13	Radium 228 (Dissolved)	ND	1	ND			20	
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- 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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**Radium 226 by SM 7500**

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-213B	08/09/11 8:57	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-220	08/15/11 15:02	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-213B	08/09/11 8:57	Radium 226 (Dissolved)	5.4	0.2	5		109	62.5 - 125	

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-220	08/15/11 15:02	Radium 226 (Suspended)	4.8	0.2	5		96.3	56.4 - 132	

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107426-001FMS	08/09/11 8:57	Radium 226 (Dissolved)	5.2	0.2	5	0.3	98.3	41.6 - 146	

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001FMS	08/15/11 17:13	Radium 226 (Suspended)	10.5	0.2	5	6.4	83.2	51.4 - 135	

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107425-001FDUP	08/09/11 8:57	Radium 226 (Dissolved)	0.4	0.2	0.5	8.36		20	

Sample ID	RunNo: 73444	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001FDUP	08/15/11 15:02	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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-213	08/10/11 8:38	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 73466	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-221	08/16/11 9:06	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-213	08/10/11 8:38	Thorium 230 (Dissolved)	12	0.2	12		99.8	67.1 - 134	

Sample ID	RunNo: 73466	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-221	08/15/11 8:38	Thorium 230 (Suspended)	13	0.2	12		102	69.2 - 127	

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107418-001FDUP	08/10/11 8:38	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 73466	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108111-003EDUP	08/15/11 8:38	Thorium 230 (Dissolved)	ND	0.2	ND			20	

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

Sample ID	RunNo: 73363	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73363	07/27/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 73363	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73363	07/27/11 0:00	Radon-222	22800	100	22500		101	75 - 125	L

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

Sample ID	RunNo: 73363	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001A	07/27/11 0:00	Radon-222	360	50	410	11.3		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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**Silica as SiO2**

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

Sample ID	RunNo: 72708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/27/11 10:46	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 72708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	07/27/11 10:48	Silica as SiO2	2.1	0.1	2.14		95.9	85 - 115	

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

Sample ID	RunNo: 72708	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107420-002CD	07/27/11 19:33	Silica as SiO2	27.0	0.1	26.1	3.37		20	

**Solids By SM 2540**

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	07/29/11 14:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	07/29/11 14:15	Total Dissolved Solids (180)	220	10	226		96.5	90 - 110	

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107456-001A	07/29/11 14:50	Total Dissolved Solids (180)	1740	10	1760	0.683		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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

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

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5341	08/01/11 17:48	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5341	08/01/11 17:50	Iron	0.48	0.05	0.5		96.3	85 - 115	
		Manganese	0.20	0.02	0.2		98.2	85 - 115	

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107425-001ES	08/01/11 17:55	Iron	0.59	0.05	0.5	0.10	96.9	70 - 130	
		Manganese	0.21	0.02	0.2	ND	101	70 - 130	

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001ED	08/01/11 18:09	Iron	0.22	0.05	0.22	1.08		20	
		Manganese	ND	0.02	ND			20	

**Suspended Natural Uranium**

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/09/11 12:49	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/09/11 12:45	Uranium Suspended	0.105	0.0003	0.1		105	85 - 115	

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107418-001FS	08/09/11 14:18	Uranium Suspended	1.14	0.0003	1.1	ND	103	70 - 130	

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107418-001FD	08/09/11 14:14	Uranium Suspended	ND	0.0003	ND			20	

- Qualifiers:**
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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:** S1107426  
**Project:** Reno Creek Project

**Date:** 8/23/2011  
**Report ID:** S1107426001

**pH Water**

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	pH	8.5	0.1	8.48		100	90 - 110	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107436-001AD	07/27/11 20:12	pH	8.3	0.1	8.3	0.179		20	

- Qualifiers:**
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  - 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) 682-8945

**- CHAIN OF CUSTODY RECORD -**

Rev 4.5

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08321

Client Name: AUC LLC  
 Report Address: peavendor@auc-llc.com; mickelson@treccorp.com; jshriver@treccorp.com  
 Invoice Address: AUC LLC  
 Project Identification: Reno Creek Project  
 Contact Name: [Signature]  
 Email: [Signature]  
 Phone: [Signature]  
 Purchase Order #: [Signature]  
 Quote #: [Signature]  
 Sampler (Signature/Printed): [Signature]  
 Telephone #: 307-265-0696

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS	REMARKS
1	S1107426	7/26/11	1200	OM2-001-110726	WT	13	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 WYPDES Discharge See Attached Table 9 (Blacks)	Groundwater
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
				[Signature]	7/26/11	11:49
				[Signature]	7.27.11	9:57

SHIPPING INFO:  UPS  Fed Express  US Mail  Hand Carried  Other

MATRIX CODES: Water  Soil  Solid  Trip Blank  Other

TURNAROUND TIMES:  Check desired service  Standard turnaround  RUSH - 5 Working Days  URGENT - < 2 Working Days

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

ADDITIONAL REMARKS: