



Tuesday, July 19, 2011

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

RE: Reno Creek Project  
Orde

r No.: S1105245

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples OM4-002-110517 on May 17, 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:** 7/19/2011

**CLIENT:** AUC LLC  
**Project:** Reno Creek Project  
**Lab Order:** S1105245

**CASE NARRATIVE**  
**Report ID:** S1105245002  
(Replaces S1105245001)

Samples OM4-002-110517 were received on May 17, 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

S1105245-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

- S1105315-001 - Radiochemistry/Lead 210 (Suspended) - RPD outside accepted recovery limits
- S1105245-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R70682 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- MB-R70682 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1105245-001 - General Parameters/Radon-222 - RPD outside accepted recovery limits

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/19/2011
Report ID S1105245002
(Replaces S1105245001)

ProjectName: Reno Creek Project
Lab ID: S1105245-001
ClientSample ID: OM4-002-110517
COC: RC 08280

WorkOrder: S1105245
CollectionDate: 5/17/2011 10:55:00 AM
DateReceived: 5/17/2011 4:31:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init

Main data table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Includes rows for pH, Conductivity, Turbidity, Dissolved Oxygen, Temperature, and Water Level readings.

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:** S1105245-001  
**ClientSample ID:** OM4-002-110517  
**COC:** RC 08280

**Date Reported:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**WorkOrder:** S1105245  
**CollectionDate:** 5/17/2011 10:55:00 AM  
**DateReceived:** 5/17/2011 4:31:00 PM  
**FieldSampler:** TN  
**Matrix:** Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	265	mg/L		5	SM 2320B	5/19/2011 3:18:32 PM	AMB
Alkalinity, Bicarbonate as HCO3	323	mg/L		5	SM 2320B	5/19/2011 3:18:32 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	5/19/2011 3:18:32 PM	AMB
Chloride	3	mg/L		1	EPA 300.0	5/20/2011 1:27:00 PM	KO
Fluoride	0.1	mg/L		0.1	SM 4500FC	5/19/2011 3:18:32 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	5/19/2011 5:25:00 PM	LJK
Sulfate	296	mg/L		1	EPA 300.0	5/20/2011 1:27:00 PM	KO
Calcium	129	mg/L		1	EPA 200.7	5/20/2011 11:54:15 AM	DG
Magnesium	40	mg/L		1	EPA 200.7	5/20/2011 11:54:15 AM	DG
Potassium	7	mg/L		1	EPA 200.7	5/20/2011 11:54:15 AM	DG
Sodium	34	mg/L		1	EPA 200.7	5/20/2011 11:54:15 AM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	5/19/2011 4:27:00 PM	LJK
Silica as SiO2	16	mg/L		1	EPA 200.7	5/20/2011 11:54:15 AM	DG
<b>General Parameters</b>							
pH	7.8	s.u.		0.1	SM 4500 H B	5/19/2011 3:18:32 PM	AMB
Electrical Conductivity	919	µmhos/cm		5	SM 2510B	5/19/2011 3:18:32 PM	AMB
Total Dissolved Solids (180)	790	mg/L		10	SM 2540	5/20/2011 11:25:00 AM	JF
<b>Data Quality</b>							
Cation Sum	11.37	meq/L		0.01	SM 1030E	5/26/2011 9:37:08 AM	LJK
Anion Sum	11.54	meq/L		0.01	SM 1030E	5/26/2011 9:37:08 AM	LJK
Cation-Anion Balance (± 5%)	0.72	%		0.01	SM 1030E	5/26/2011 9:37:08 AM	LJK
Solids, Total Dissolved (Calc)	670	mg/L		10	SM 1030E	5/26/2011 9:37:08 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.18	dec. %		0.01	Calculation	5/26/2011 9:40:52 AM	LJK

These results apply only to the samples tested.

**RL - Reporting Limit**

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
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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

Date Reported 7/19/2011
Report ID S1105245002
(Replaces S1105245001)

ProjectName: Reno Creek Project
Lab ID: S1105245-001
ClientSample ID: OM4-002-110517
COC: RC 08280

WorkOrder: S1105245
CollectionDate: 5/17/2011 10:55:00 AM
DateReceived: 5/17/2011 4:31:00 PM
FieldSampler: TN
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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ND Not Detected at the Reporting Limit
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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: S1105245-001
ClientSample ID: OM4-002-110517
COC: RC 08280

Date Reported 7/19/2011
Report ID S1105245002
(Replaces S1105245001)
WorkOrder: S1105245
CollectionDate: 5/17/2011 10:55:00 AM
DateReceived: 5/17/2011 4:31:00 PM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved, Radionuclides - Suspended, and Radionuclides - Total.

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
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O Outside the Range of Dilutions

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



### ANALYTICAL QC SUMMARY REPORT

**CLIENT:** AUC LLC  
**Work Order:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Alkalinity**

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 15:08	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	Alkalinity, Total (As CaCO3)	592	5	607		97.5	90 - 110	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	Alkalinity, Bicarbonate as HCO3	136	5	135	0.996		20	
		Alkalinity, Carbonate as CO3	ND	5	ND	0		20	
		Alkalinity, Total (As CaCO3)	112	5	111	0.996		20	

**Conductivity**

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 15:08	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	Electrical Conductivity	974	5	1000		97.3	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	Electrical Conductivity	735	5	730	0.685		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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Dissolved Mercury by EPA 245.1 - Water**

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	05/24/11 9:39	Mercury	ND	0.001					

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/24/11 9:37	Mercury	0.002	0.001	0.002		92.3	85 - 115	

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105245-001E	05/24/11 10:00	Mercury	0.002	0.001	0.00244	ND	86.8	70 - 130	

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105245-001E	05/24/11 10:02	Mercury	0.002	0.001	0.002	3.77	90.1	20	

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

Sample ID	RunNo: 70396	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001E	05/24/11 9:58	Mercury	ND	0.001	ND	0		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - 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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
 (Replaces S1105245001)

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

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/20/11 11:39	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: 70280	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	05/20/11 11:42	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		99.0	85 - 115	
		Chromium	1.00	0.01	1		99.7	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	0.98	0.01	1		97.6	85 - 115	

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105298-001BS	05/20/11 12:49	Aluminum	11.0	0.1	10.5	ND	105	70 - 130	
		Boron	10.4	0.1	10.5	0.3	96.2	70 - 130	
		Chromium	9.95	0.01	10.5	ND	94.8	70 - 130	
		Iron	10.1	0.05	10.5	ND	95.7	70 - 130	
		Manganese	12.1	0.02	10.5	2.19	94.4	70 - 130	
		Nickel	9.86	0.01	10.5	ND	93.9	70 - 130	
		Zinc	9.44	0.01	10.5	ND	89.9	70 - 130	

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105298-001BSD	05/20/11 12:51	Aluminum	10.9	0.1	11.0	1.19	104	20	
		Boron	10.5	0.1	10.4	0.527	96.7	20	
		Chromium	9.84	0.01	9.95	1.17	93.7	20	
		Iron	9.91	0.05	10.1	1.46	94.3	20	
		Manganese	12.0	0.02	12.1	1.03	93.2	20	
		Nickel	9.75	0.01	9.86	1.07	92.9	20	
		Zinc	9.40	0.01	9.44	0.406	89.5	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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

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

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

Sample ID	RunNo: 70280	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105297-002CD	05/20/11 12:44	Aluminum	ND	0.1	ND	0		20	
		Boron	0.2	0.1	0.2	2.53		20	
		Chromium	ND	0.01	ND	0		20	
		Iron	6.16	0.05	5.89	4.59		20	
		Manganese	0.53	0.02	0.50	4.86		20	
		Nickel	0.01	0.01	0.01	5.31		20	
		Zinc	ND	0.01	ND	0		20	

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

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/19/11 12:42	Arsenic	ND	0.005					
		Barium	ND	0.5					
		Cadmium	ND	0.002					
		Copper	ND	0.01					
		Lead	ND	0.02					
		Molybdenum	ND	0.02					
		Selenium	ND	0.005					
		Uranium	ND	0.001					
		Vanadium	ND	0.02					

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/19/11 12:38	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		102	85 - 115	
		Cadmium	0.102	0.002	0.1		102	85 - 115	
		Copper	0.10	0.01	0.1		96.9	85 - 115	
		Lead	0.10	0.02	0.1		98.7	85 - 115	
		Molybdenum	0.10	0.02	0.1		103	85 - 115	
		Selenium	0.103	0.005	0.1		103	85 - 115	
		Uranium	0.102	0.001	0.1		102	85 - 115	
		Vanadium	0.10	0.02	0.1		100	85 - 115	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - 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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
 (Replaces S1105245001)

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105245-001ES	05/19/11 12:58	Arsenic	1.16	0.005	1.1	ND	105	70 - 130	
		Barium	1.2	0.5	1.1	ND	106	70 - 130	
		Cadmium	1.17	0.002	1.1	ND	106	70 - 130	
		Copper	1.05	0.01	1.1	ND	95.2	70 - 130	
		Lead	1.10	0.02	1.1	ND	99.9	70 - 130	
		Molybdenum	1.15	0.02	1.1	ND	105	70 - 130	
		Selenium	1.16	0.005	1.1	ND	106	70 - 130	
		Uranium	1.13	0.001	1.1	0.004	103	70 - 130	
		Vanadium	1.13	0.02	1.1	ND	102	70 - 130	

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105245-001EMSD	05/19/11 13:02	Arsenic	1.15	0.005	1.16	0.491	105	20	
		Barium	1.2	0.5	1.2	2.69	103	20	
		Cadmium	1.16	0.002	1.17	0.742	105	20	
		Copper	1.05	0.01	1.05	0.334	94.9	20	
		Lead	1.10	0.02	1.10	0.443	100	20	
		Molybdenum	1.18	0.02	1.15	2.67	107	20	
		Selenium	1.18	0.005	1.16	1.25	107	20	
		Uranium	1.14	0.001	1.13	0.166	103	20	
		Vanadium	1.14	0.02	1.13	1.24	104	20	

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

Sample ID	RunNo: 70237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001ED	05/19/11 12:54	Arsenic	ND	0.005	ND	0		20	
		Barium	ND	0.5	ND	0		20	
		Cadmium	ND	0.002	ND	0		20	
		Copper	ND	0.01	ND	0		20	
		Lead	ND	0.02	ND	0		20	
		Molybdenum	ND	0.02	ND	0		20	
		Selenium	ND	0.005	ND	0		20	
		Uranium	0.003	0.001	0.004	1.97		20	
		Vanadium	ND	0.02	ND	0		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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Fluoride by SM 4500**

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 15:08	Fluoride	ND	0.1					

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	Fluoride	2.9	0.1	2.71		105	90 - 110	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105281-002ASPK	05/19/11 19:01	Fluoride	2.5	0.1	2.5	ND	97.5	80 - 120	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	Fluoride	ND	0.1	ND	0		20	

**Gross Alpha, Beta by SM 7110B**

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-151	06/01/11 19:45	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-151	06/01/11 19:45	Gross Alpha (Dissolved)	75	2	69		108	76.7 - 133	
		Gross Beta (Dissolved)	127	3	130		98.2	76.7 - 133	

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105254-001GMS	06/01/11 19:45	Gross Alpha (Dissolved)	64	2	69	ND	92.1	47.8 - 153	
		Gross Beta (Dissolved)	150	3	130	5	112	47.8 - 153	

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

Sample ID	RunNo: 70773	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105254-002FDUP	06/01/11 19:45	Gross Alpha (Dissolved)	ND	2	ND	0		20	
		Gross Beta (Dissolved)	8	3	8	3.45		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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Anions by ION Chromatography**

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/20/11 9:29	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	05/20/11 9:04	Chloride	30	1	30		99.6	90 - 110	
		Sulfate	142	1	150		94.8	90 - 110	

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105289-005ASPK	05/20/11 14:50	Chloride	57	1	30	29	94.8	80 - 120	
		Sulfate	328	1	240	100	94.7	80 - 120	

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

Sample ID	RunNo: 70351	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105289-005A	05/20/11 14:38	Chloride	29	1	29	0.295		20	
		Sulfate	100	1	100	0.0629		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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
 (Replaces S1105245001)

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/20/11 11:39	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	05/20/11 11:44	Calcium	39	1	40		97.3	85 - 115	
		Magnesium	40	1	40		100	85 - 115	
		Potassium	40	1	40		98.9	85 - 115	
		Sodium	38	1	40		94.1	85 - 115	

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105302-001AS	05/20/11 14:30	Calcium	54	1	25	32	88.7	70 - 130	
		Magnesium	44	1	25	21	89.8	70 - 130	
		Potassium	31	1	25	7	98.9	70 - 130	
		Sodium	33	1	25	11	88.8	70 - 130	

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105302-001ASD	05/20/11 14:33	Calcium	54	1	54	0.642	87.4	20	
		Magnesium	43	1	44	1.17	87.8	20	
		Potassium	31	1	31	0.265	98.6	20	
		Sodium	33	1	33	0.468	88.2	20	

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

Sample ID	RunNo: 70277	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105299-007AD	05/20/11 14:26	Calcium	230	1	228	0.855		20	
		Magnesium	73	1	73	0.324		20	
		Potassium	31	1	31	1.26		20	
		Sodium	171	1	176	2.99		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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Nitrogen, Ammonia (as N)**

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	05/19/11 16:17	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	05/19/11 16:19	Nitrogen, Ammonia (As N)	8.8	0.1	8.93		98.0	90 - 110	

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105253-001C	05/19/11 16:34	Nitrogen, Ammonia (As N)	9.3	0.1	10	ND	93.3	80 - 120	

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

Sample ID	RunNo: 70224	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105253-001C	05/19/11 16:33	Nitrogen, Ammonia (As N)	ND	0.1	ND	0		20	

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

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

Sample ID	RunNo: 70225	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	05/19/11 15:53	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 70225	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	05/19/11 15:55	Nitrogen, Nitrate-Nitrite (as N)	7.3	0.1	7.69		94.7	90 - 110	

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

Sample ID	RunNo: 70225	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105262-004C	05/19/11 17:31	Nitrogen, Nitrate-Nitrite (as N)	11.2	0.05	10	ND	112	80 - 120	

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

Sample ID	RunNo: 70225	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105262-004C	05/19/11 17:30	Nitrogen, Nitrate-Nitrite (as N)	ND	0.05	ND	0		20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - 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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Lead 210 and Polonium 210**

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-144 06/06/11 11:16 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-144 06/04/11 15:35 Lead 210 (Dissolved) ND 1

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-146 06/13/11 11:42 Polonium 210 (Suspended) ND 1

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-146 06/13/11 8:36 Lead 210 (Suspended) ND 1

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-144 PO 06/06/11 11:16 Polonium 210 (Dissolved) 5 1 4.65 115 35.1 - 175

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-144 06/04/11 15:35 Lead 210 (Dissolved) 14 1 13.1 106 35.1 - 175

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-146 PO 06/13/11 11:42 Polonium 210 (Suspended) 2 1 4.53 51.8 35.1 - 175

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-146 06/13/11 8:36 Lead 210 (Suspended) 12 1 13.1 95.3 35.1 - 175

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105245-001GMS 06/06/11 11:16 Polonium 210 (Dissolved) 9 1 13.1 ND 69.5 20.9 - 160

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105252-001GMS 06/04/11 15:35 Lead 210 (Dissolved) 13 1 13.1 1 91.8 20.9 - 160

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105245-001GMS 06/13/11 11:42 Polonium 210 (Suspended) 9 1 13.1 ND 69.5 20.9 - 160

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105245-001GMS 06/13/11 8:36 Lead 210 (Suspended) 13 1 13.1 ND 98.9 20.9 - 160

- 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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Lead 210 and Polonium 210**

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105270-001GDUP 06/06/11 11:16 Polonium 210 (Dissolved) ND 1 ND 0 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105270-001GDUP 06/06/11 17:51 Lead 210 (Dissolved) ND 1 ND 0 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105315-001FDUP 06/15/11 19:55 Polonium 210 (Suspended) ND 1 ND 0 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105315-001FDUP 06/14/11 19:55 Lead 210 (Suspended) 3 1 1 89.7 20 R

**Radium 228**

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-152 06/07/11 16:14 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-152 06/07/11 16:14 Radium 228 (Dissolved) 11 1 10.3 102 74.9 - 122

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1105251-003AMS 06/07/11 16:14 Radium 228 (Dissolved) 12 1 10.3 2 96.7 48.4 - 167

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1105253-002EDUP 06/07/11 16:14 Radium 228 (Dissolved) ND 1 ND 0 20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - 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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
 (Replaces S1105245001)

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

Sample ID	RunNo: 70834	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-140	06/06/11 20:15	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71121	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-151	06/15/11 9:26	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 70834	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-140	06/06/11 20:15	Radium 226 (Dissolved)	5.3	0.2	5		105	62.5 - 125	

Sample ID	RunNo: 71121	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-151	06/15/11 0:00	Radium 226 (Suspended)	3.8	0.2	5.88		65.3	62.5 - 125	

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

Sample ID	RunNo: 70834	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105148-001EMS	06/07/11 8:54	Radium 226 (Dissolved)	92.7	0.2	5	85.5	144	41.6 - 146	

Sample ID	RunNo: 71121	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105253-001FMS	06/15/11 9:26	Radium 226 (Suspended)	4.1	0.2	5	ND	82.7	41.6 - 146	

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

Sample ID	RunNo: 70834	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105148-002EDUP	06/07/11 8:54	Radium 226 (Dissolved)	32.2	0.2	29.2	10.2		20	

Sample ID	RunNo: 71121	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105253-002EDUP	06/15/11 9:26	Radium 226 (Suspended)	ND	0.2	ND	0		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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
 (Replaces S1105245001)

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

Sample ID	RunNo: 70887	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-144	06/07/11 8:50	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71145	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-152	06/13/11 8:51	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 70887	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-144	06/07/11 8:50	Thorium 230 (Dissolved)	12	0.2	12		97.5	67.1 - 134	

Sample ID	RunNo: 71145	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-152	06/13/11 8:51	Thorium 230 (Suspended)	14	0.2	12		114	67.1 - 134	

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

Sample ID	RunNo: 70887	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105253-001FDUP	06/07/11 8:50	Thorium 230 (Dissolved)	ND	0.2	ND	0		20	

Sample ID	RunNo: 71145	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105324-001GDUP	06/13/11 8:51	Thorium 230 (Suspended)	ND	0.2	ND	0		20	

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

Sample ID	RunNo: 70682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R70682	05/18/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 70682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R70682	05/18/11 0:00	Radon-222	22100	100	22500		98.2	75 - 125	L

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

Sample ID	RunNo: 70682	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001B	05/18/11 0:00	Radon-222	70	50	90	23.3		20	RL

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

Sample ID	RunNo: 70281	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	05/20/11 11:39	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 70281	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	05/20/11 11:42	Silica as SiO2	2.2	0.1	2.14		103	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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
 (Replaces S1105245001)

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

Sample ID	RunNo: 70382	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	05/20/11 11:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 70382	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	05/20/11 11:15	Total Dissolved Solids (180)	230	10	226		100	90 - 110	

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

Sample ID	RunNo: 70382	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105262-004B	05/20/11 12:20	Total Dissolved Solids (180)	6680	10	6670	0.150		20	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 5/23 TOT -5145	05/23/11 15:57	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 5/23 TOT -5145	05/23/11 16:00	Iron	0.47	0.05	0.5		93.6	85 - 115	
		Manganese	0.19	0.02	0.2		94.1	85 - 115	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105252-001FSD	05/23/11 16:11	Iron	0.62	0.05	0.5	0.18	87.6	70 - 130	
		Manganese	0.90	0.02	0.2	0.71	93.2	70 - 130	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105252-001FS	05/23/11 16:09	Gold	ND	0.01	ND	0		20	
		Iron	0.55	0.05	0.62	11.9		20	
		Manganese	0.78	0.02	0.90	12.3		20	

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

Sample ID	RunNo: 70334	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001FD	05/23/11 16:04	Iron	0.10	0.05	0.10	2.81		20	
		Manganese	0.30	0.02	0.29	2.15		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:** S1105245  
**Project:** Reno Creek Project

**Date:** 7/19/2011  
**Report ID:** S1105245002  
(Replaces S1105245001)

**Suspended Natural Uranium**

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	05/25/11 11:04	Uranium Suspended	0.0999	0.0003	0.1		99.9	85 - 115	

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1105245-001HS	05/25/11 16:53	Uranium Suspended	1.11	0.0003	1.1	ND	101	70 - 130	

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1105245-001HMSD	05/25/11 17:05	Uranium Suspended	1.08	0.0003	1.11	2.55	98.0	20	

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

Sample ID	RunNo: 70440	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105245-001HD	05/25/11 16:49	Uranium Suspended	ND	0.0003	ND	0		20	

**pH Water**

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	05/19/11 15:00	pH	8.5	0.1	8.63		98.8	90 - 110	

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

Sample ID	RunNo: 70230	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1105270-001B	05/19/11 16:28	pH	8.2	0.1	8.1	1.40		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) 682-8945  
 (307) 672-8945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08280

**- CHAIN OF CUSTODY RECORD -**

Client Name: **AUC LLC** Report Address: **pcavendor@auc-llc.com; mickerson@treecorp.com; jehntvett@treecorp.com**  
 Invoice Address: **AUC LLC** **951 W. 2nd St. Ste 395 Casper WY 82601**  
 Project Identification: **Reno Creek Project** Contact Name: **Traci Nickerson** Email: **tracnickerson@treecorp.com** Phone: **307-265-0696**  
 Sampler (Signature/Printed): **Traci Nickerson** Telephone #: **265-0696**  
 ANALYSES / PARAMETERS: 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)

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1							
2	S1105245	5/7/11	10:55 AM	014-002-110517	W	13	X Groundwater
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

LAB COMMENTS: Relinquished By (Signature/Printed): **Traci Nickerson** DATE: **5/7/11** TIME: **10:00**  
 Received By (Signature/Printed): **Alvin D. McLeod** DATE: **5/17/11** TIME: **16:31**  
 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 - 15 Working Days  URGENT - < 2 Working Days  Rush & Urgent Surcharges will be applied  
 COMPLIANCE INFORMATION: Compliance Monitoring? **Y/N** Program (SDWA, NPDES,...) \_\_\_\_\_ PWSID / Permit # \_\_\_\_\_ Chlorinated? **Y/N** Sample Disposal: Lab  Client