



Wednesday, January 04, 2012

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

RE: Reno Creek Project
Orde

r No.: S1111238

Dear Phil Cavendor:

Inter-Mountain Laboratories received sample SM7-002-111115 on November 15, 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: 1/4/2012

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1111238

CASE NARRATIVE
Report ID: S1111238001

Sample SM&-002-111115 was received on November 15, 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

MB-R77480 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R77480 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1111238-001 - 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: S1111238-001
ClientSample ID: SM7-002-111115
COC: RC 08407

Date Reported: 1/4/2012
Report ID: S1111238001

WorkOrder: S1111238
CollectionDate: 11/15/2011 1:30:00 PM
DateReceived: 11/15/2011 4:25:00 PM
FieldSampler: TN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH	7.51	s.u.			Field	11/15/2011 1:30:00 PM
Conductivity	2945	µmhos/cm			Field	11/15/2011 1:30:00 PM
Dissolved Oxygen	1.56	mg/L			Field	11/15/2011 1:30:00 PM
Turbidity	22.7	NTU			Field	11/15/2011 1:30:00 PM
Temperature	9.45	°C			Field	11/15/2011 1:30:00 PM
Oxygen Reduction Potential (ORP)	-9.5	mV			Field	11/15/2011 1:30:00 PM
Water Level Reading 1	68.05	Ft			Field	11/15/2011 1:30:00 PM
Anions/Cations						
Alkalinity, Total (As CaCO3)	259	mg/L		5	SM 2320B	11/22/2011 3:24:09 PM KO
Alkalinity, Bicarbonate as HCO3	316	mg/L		5	SM 2320B	11/22/2011 3:24:09 PM KO
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	11/22/2011 3:24:09 PM KO
Chloride	14	mg/L		1	EPA 300.0	11/22/2011 2:18:00 PM AMB
Fluoride	0.3	mg/L		0.1	SM 4500FC	11/17/2011 6:30:35 PM AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	11/18/2011 2:42:00 PM MEL
Sulfate	1420	mg/L		1	EPA 300.0	11/22/2011 2:18:00 PM AMB
Calcium	285	mg/L		1	EPA 200.7	11/21/2011 11:41:35 AM DG
Magnesium	50	mg/L		1	EPA 200.7	11/21/2011 11:41:35 AM DG
Potassium	14	mg/L		1	EPA 200.7	11/21/2011 11:41:35 AM DG
Sodium	405	mg/L		1	EPA 200.7	11/21/2011 11:41:35 AM DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	11/21/2011 4:38:00 PM MB
Silica as SiO2	9	mg/L		1	EPA 200.7	11/17/2011 7:07:50 PM DG
General Parameters						
pH	8.1	s.u.		0.1	SM 4500 H B	11/17/2011 6:30:35 PM AMB
Electrical Conductivity	2850	µmhos/cm		5	SM 2510B	11/17/2011 6:30:35 PM AMB
Total Dissolved Solids (180)	2490	mg/L		10	SM 2540	11/17/2011 8:54:00 AM AF
Data Quality						
Cation Sum	36.34	meq/L		0.01	SM 1030E	11/28/2011 8:43:31 AM LJK
Anion Sum	35.24	meq/L		0.01	SM 1030E	11/28/2011 8:43:31 AM LJK
Cation-Anion Balance (± 5%)	1.53	%		0.01	SM 1030E	11/28/2011 8:43:31 AM LJK
Solids, Total Dissolved (Calc)	2360	mg/L		10	SM 1030E	11/28/2011 8:43:31 AM LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.06	dec. %		0.01	Calculation	11/28/2011 8:58:30 AM LJK

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
C	Calculated Value	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
L	Analyzed by a contract laboratory	M Value exceeds Monthly Ave or MCL
ND	Not Detected at the Reporting Limit	O Outside the Range of Dilutions
S	Spike Recovery outside accepted recovery 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: S1111238-001
ClientSample ID: SM7-002-111115
COC: RC 08407

Date Reported: 1/4/2012
Report ID: S1111238001

WorkOrder: S1111238
CollectionDate: 11/15/2011 1:30:00 PM
DateReceived: 11/15/2011 4:25:00 PM
FieldSampler: TN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Metals - Dissolved						
Aluminum	ND	mg/L		0.1	EPA 200.7	11/17/2011 7:07:50 PM DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	11/16/2011 5:25:00 PM MS
Barium	ND	mg/L		0.1	EPA 200.8	11/16/2011 5:25:00 PM MS
Boron	ND	mg/L		0.1	EPA 200.7	11/17/2011 7:07:50 PM DG
Cadmium	ND	mg/L		0.001	EPA 200.8	11/16/2011 5:25:00 PM MS
Chromium	ND	mg/L		0.01	EPA 200.7	11/17/2011 7:07:50 PM DG
Copper	ND	mg/L		0.01	EPA 200.8	11/16/2011 5:25:00 PM MS
Iron	0.17	mg/L		0.05	EPA 200.7	11/17/2011 7:07:50 PM DG
Lead	ND	mg/L		0.01	EPA 200.8	11/16/2011 5:25:00 PM MS
Manganese	0.83	mg/L		0.01	EPA 200.7	11/17/2011 7:07:50 PM DG
Mercury	ND	mg/L		0.001	EPA 245.1	11/18/2011 11:52:25 AM BK
Molybdenum	0.02	mg/L		0.01	EPA 200.8	11/16/2011 5:25:00 PM MS
Nickel	ND	mg/L		0.05	EPA 200.7	11/17/2011 7:07:50 PM DG
Selenium	ND	mg/L		0.005	EPA 200.8	11/16/2011 5:25:00 PM MS
Uranium	0.0092	mg/L		0.0003	EPA 200.8	11/16/2011 5:25:00 PM MS
Vanadium	ND	mg/L		0.1	EPA 200.8	11/16/2011 5:25:00 PM MS
Zinc	ND	mg/L		0.01	EPA 200.7	11/17/2011 7:07:50 PM DG
Metals - Suspended						
Uranium	ND	mg/L		0.0003	EPA 200.8	11/19/2011 1:09:00 AM MS
Metals - Total						
Iron	3.77	mg/L		0.05	EPA 200.7	11/18/2011 5:23:35 PM DG
Manganese	0.88	mg/L		0.01	EPA 200.7	11/18/2011 5:23:35 PM DG

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: S1111238-001
ClientSample ID: SM7-002-111115
COC: RC 08407

Date Reported 1/4/2012
Report ID S1111238001
WorkOrder: S1111238
CollectionDate: 11/15/2011 1:30:00 PM
DateReceived: 11/15/2011 4:25:00 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
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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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Alkalinity

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

Sample ID	RunNo: 77236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/22/11 14:15	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 77236	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/22/11 14:05	Alkalinity, Total (As CaCO3)	594	5	601		98.9	90 - 110	

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

Sample ID	RunNo: 77236	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111298-005AD	11/22/11 15:45	Alkalinity, Bicarbonate as HCO3	587	5	591	0.597		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	481	5	484	0.597		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 77050	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/17/11 11:18	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 77050	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/17/11 11:09	Electrical Conductivity	1070	5	1120		95.3	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 77050	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111240-003AD	11/17/11 19:12	Electrical Conductivity	133	5	134	0.596		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 77077	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	11/18/11 8:39	Mercury	ND	0.001					

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

Sample ID	RunNo: 77077	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	11/18/11 8:37	Mercury	0.002	0.001	0.002		103	85 - 115	

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

Sample ID	RunNo: 77077	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111235-027C	11/18/11 11:40	Mercury	0.002	0.001	0.00244	ND	98.2	70 - 130	

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

Sample ID	RunNo: 77077	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1111235-027C	11/18/11 11:41	Mercury	0.002	0.001	0.002	2.08		20	

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

Sample ID	RunNo: 77077	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111235-027C	11/18/11 11:38	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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

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

Sample ID	RunNo: 77052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	11/17/11 10:19	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: 77052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	11/17/11 10:22	Aluminum	1.0	0.1	1		99.2	85 - 115	
		Boron	1.0	0.1	1		97.1	85 - 115	
		Chromium	1.01	0.01	1		101	85 - 115	
		Iron	1.02	0.05	1		102	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.03	0.01	1		103	85 - 115	

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

Sample ID	RunNo: 77052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111237-001DS	11/17/11 18:55	Aluminum	0.5	0.1	0.5	ND	104	70 - 130	
		Boron	0.6	0.1	0.5	ND	101	70 - 130	
		Chromium	0.52	0.01	0.5	ND	103	70 - 130	
		Iron	0.53	0.05	0.5	ND	103	70 - 130	
		Manganese	0.57	0.02	0.5	0.06	101	70 - 130	
		Nickel	0.51	0.01	0.5	ND	102	70 - 130	
		Zinc	0.50	0.01	0.5	ND	99.6	70 - 130	

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

Sample ID	RunNo: 77052	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1111237-001DSD	11/17/11 18:58	Aluminum	0.5	0.1	0.5	2.85		20	
		Boron	0.5	0.1	0.6	1.22		20	
		Chromium	0.50	0.01	0.52	2.48		20	
		Iron	0.52	0.05	0.53	1.14		20	
		Manganese	0.56	0.02	0.57	2.03		20	
		Nickel	0.50	0.01	0.51	1.79		20	
		Zinc	0.50	0.01	0.50	0.0402		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 77052	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111236-001DD	11/17/11 18:51	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	0.04	0.02	0.04	0.509		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: 77013	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	11/16/11 12:43	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: 77013	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	11/16/11 12:39	Arsenic	0.094	0.005	0.1		94.3	85 - 115	
		Barium	ND	0.5	0.1		91.9	85 - 115	
		Cadmium	0.095	0.002	0.1		94.8	85 - 115	
		Copper	0.10	0.01	0.1		96.3	85 - 115	
		Lead	0.10	0.02	0.1		99.0	85 - 115	
		Molybdenum	0.09	0.02	0.1		93.6	85 - 115	
		Selenium	0.097	0.005	0.1		97.2	85 - 115	
		Uranium	0.098	0.001	0.1		97.5	85 - 115	
		Vanadium	0.09	0.02	0.1		94.4	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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

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

Sample ID	RunNo: 77013	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111239-001DS	11/16/11 17:43	Arsenic	1.02	0.005	1.1	ND	92.0	70 - 130	
		Barium	1.0	0.5	1.1	ND	90.4	70 - 130	
		Cadmium	0.990	0.002	1.1	ND	90.0	70 - 130	
		Copper	1.05	0.01	1.1	ND	95.1	70 - 130	
		Lead	1.03	0.02	1.1	ND	93.6	70 - 130	
		Molybdenum	1.03	0.02	1.1	ND	93.5	70 - 130	
		Selenium	1.03	0.005	1.1	ND	93.9	70 - 130	
		Uranium	1.04	0.001	1.1	0.001	94.7	70 - 130	
		Vanadium	1.05	0.02	1.1	ND	95.5	70 - 130	

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

Sample ID	RunNo: 77013	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1111239-001DMSD	11/16/11 17:56	Arsenic	1.02	0.005	1.02	0.0721		20	
		Barium	1.0	0.5	1.0	1.53		20	
		Cadmium	1.02	0.002	0.990	2.74		20	
		Copper	0.99	0.01	1.05	5.22		20	
		Lead	1.01	0.02	1.03	1.53		20	
		Molybdenum	1.03	0.02	1.03	0.0315		20	
		Selenium	1.03	0.005	1.03	0.572		20	
		Uranium	1.03	0.001	1.04	0.914		20	
		Vanadium	1.06	0.02	1.05	0.616		20	

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

Sample ID	RunNo: 77013	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111239-001DD	11/16/11 17:38	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	ND	0.01	ND			20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	
		Uranium	ND	0.001	0.001			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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Fluoride by SM 4500

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

Sample ID	RunNo: 77050	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/17/11 11:18	Fluoride	ND	0.1					

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

Sample ID	RunNo: 77050	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/17/11 11:09	Fluoride	3.0	0.1	2.96		102	90 - 110	

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

Sample ID	RunNo: 77050	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111235-020ASPK	11/17/11 16:16	Fluoride	2.4	0.1	2.5	ND	93.4	80 - 120	

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

Sample ID	RunNo: 77050	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111235-007AD	11/17/11 13:53	Fluoride	0.1	0.1	0.1	0.516		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 77741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-340	12/06/11 21:26	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 77741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-340	12/06/11 21:26	Gross Alpha (Dissolved)	96	2	73.6		130	83 - 133	
		Gross Beta (Dissolved)	138	3	126		110	88 - 115	

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

Sample ID	RunNo: 77741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111040-002EMS	12/06/11 21:26	Gross Alpha (Dissolved)	92	2	98.1	6	88.4	48 - 153	
		Gross Beta (Dissolved)	196	3	168	13	109	60 - 140	

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

Sample ID	RunNo: 77741	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111236-001FDUP	12/06/11 21:26	Gross Alpha (Dissolved)	49	2	52	5.09		20	
		Gross Beta (Dissolved)	17	3	17	3.58		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Anions by ION Chromatography

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

Sample ID	RunNo: 77231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	11/22/11 12:29	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 77231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	11/22/11 12:04	Chloride	31	1	30		103	90 - 110	
		Sulfate	146	1	150		97.4	90 - 110	

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

Sample ID	RunNo: 77231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111336-008ASPK	11/22/11 21:01	Chloride	59	1	55	8	93.4	80 - 120	
		Sulfate	739	1	440	272	106	80 - 120	

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

Sample ID	RunNo: 77231	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111336-008A	11/22/11 20:49	Chloride	7	1	8	7.93		20	
		Sulfate	275	1	272	0.839		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	11/21/11 11:20	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	11/21/11 11:25	Calcium	41	1	40		103	85 - 115	
		Magnesium	41	1	40		101	85 - 115	
		Potassium	41	1	40		101	85 - 115	
		Sodium	38	1	40		95.1	85 - 115	

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111311-006AS	11/21/11 12:55	Calcium	121	1	50	81	80.3	70 - 130	
		Magnesium	62	1	50	14	96.1	70 - 130	
		Potassium	66	1	50	14	104	70 - 130	
		Sodium	148	1	50	101	95.2	70 - 130	

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1111311-006ASD	11/21/11 12:57	Calcium	120	1	121	0.535		20	
		Magnesium	61	1	62	1.57		20	
		Potassium	66	1	66	0.885		20	
		Sodium	148	1	148	0.196		20	

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

Sample ID	RunNo: 77165	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111311-005AD	11/21/11 12:50	Calcium	55	1	55	0.760		20	
		Magnesium	17	1	17	0.0964		20	
		Potassium	20	1	20	0.898		20	
		Sodium	88	1	88	0.609		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

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

Sample ID	RunNo: 77178	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	11/21/11 16:14	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 77178	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	11/21/11 16:12	Nitrogen, Ammonia (As N)	10.5	0.1	10		105	90 - 110	

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

Sample ID	RunNo: 77178	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111252-001C	11/21/11 16:42	Nitrogen, Ammonia (As N)	10.4	0.1	10	ND	104	80 - 120	

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

Sample ID	RunNo: 77178	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111252-001C	11/21/11 16:41	Nitrogen, Ammonia (As N)	ND	0.1	ND				

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

Sample ID	RunNo: 77103	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	11/18/11 12:55	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 77103	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	11/18/11 12:52	Nitrogen, Nitrate-Nitrite (as N)	2.3	0.1	2.31		98.7	90 - 110	

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

Sample ID	RunNo: 77103	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111277-002B	11/18/11 14:53	Nitrogen, Nitrate-Nitrite (as N)	11.6	0.1	10	0.4	112	80 - 120	

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

Sample ID	RunNo: 77103	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111277-002B	11/18/11 14:52	Nitrogen, Nitrate-Nitrite (as N)	0.4	0.1	0.4	1.54		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

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

Sample ID	RunNo: 77562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	11/30/11 11:05	Lead 210 (Dissolved)	ND	1					

Sample ID	RunNo: 77562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	11/30/11 11:05	Lead 210 (Suspended)	ND	1					

Sample ID	RunNo: 77563	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	11/29/11 17:17	Polonium 210 (Dissolved)	ND	1					

Sample ID	RunNo: 77563	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	11/29/11 17:17	Polonium 210 (Suspended)	ND	1					

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

Sample ID	RunNo: 77562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-325	11/30/11 11:05	Lead 210 (Dissolved)	14	1	12.8		111	67.6 - 131	
		Lead 210 (Suspended)	14	1	12.8		111	60.3 - 141	

Sample ID	RunNo: 77563	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-325	11/29/11 17:17	Polonium 210 (Dissolved)	10	1	12.8		80.0	35.1 - 175	
		Polonium 210 (Suspended)	10	1	12.8		80.0	48.6 - 156	

Sample ID	RunNo: 77563	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-325 PO	11/29/11 17:17	Polonium 210 (Dissolved)	5	1	3.78		120	35.1 - 175	

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

Sample ID	RunNo: 77562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
TAP WATER MS	11/30/11 13:41	Lead 210 (Dissolved)	14	1	12.8	1	98.3	66 - 133	
		Lead 210 (Suspended)	14	1	12.8	1	98.3	62.4 - 132	

Sample ID	RunNo: 77563	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
TAP WATER MS	11/30/11 9:22	Polonium 210 (Dissolved)	12	1	12.8	ND	91.2	20.9 - 160	
		Polonium 210 (Suspended)	12	1	12.8	ND	91.2	28 - 173	

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

Sample ID	RunNo: 77562	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	11/30/11 13:41	Lead 210 (Dissolved)	14	1	14	3.13		30	
		Lead 210 (Suspended)	14	1	14	3.13		30	

Sample ID	RunNo: 77563	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	11/30/11 9:22	Polonium 210 (Dissolved)	14	1	12	19.3		30	
		Polonium 210 (Suspended)	14	1	12	19.3		30	

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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 77562	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111237-001FDUP	11/30/11 11:05	Lead 210 (Dissolved)	3	1	3	16.1		20	
Sample ID	RunNo: 77563	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111237-001FDUP	11/29/11 17:17	Polonium 210 (Dissolved)	ND	1	ND			20	

Radium 228

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

Sample ID	RunNo: 78282	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-353	12/23/11 17:05	Radium 228 (Dissolved)	ND	1					

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

Sample ID	RunNo: 78282	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-353	12/23/11 17:05	Radium 228 (Dissolved)	11	1	9.99		106	74.9 - 122	

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

Sample ID	RunNo: 78282	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111297-004EMS	12/23/11 17:05	Radium 228 (Dissolved)	12	1	9.99	ND	116	48.4 - 167	

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

Sample ID	RunNo: 78282	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111328-001FDUP	12/23/11 17:05	Radium 228 (Dissolved)	ND	1	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

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

Sample ID	RunNo: 77517	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	11/30/11 14:34	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 77517	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	12/01/11 12:35	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 77672	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-333	12/05/11 17:02	Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 77517	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-325	11/30/11 14:34	Radium 226 (Dissolved)	4.6	0.2	5.06		91.4	62.5 - 125	

Sample ID	RunNo: 77517	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-325	12/01/11 12:35	Radium 226 (Suspended)	4.8	0.2	5.06		94.4	56.4 - 132	

Sample ID	RunNo: 77672	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-333	12/05/11 17:02	Radium 226 (Dissolved)	5.0	0.2	5.06		98.8	62.5 - 125	

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

Sample ID	RunNo: 77517	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111254-005DMS	11/30/11 14:34	Radium 226 (Dissolved)	5.1	0.2	5.06	ND	100	41.6 - 146	

Sample ID	RunNo: 77672	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111247-002AMS	12/05/11 17:02	Radium 226 (Dissolved)	4.9	0.2	5.06	0.5	87.8	41.6 - 146	

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

Sample ID	RunNo: 77227	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111249-001FDUP	11/21/11 11:25	Radium 226 (Dissolved)	40.3	0.2	38.9	3.42		20	

Sample ID	RunNo: 77517	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111254-004DDUP	11/30/11 14:34	Radium 226 (Dissolved)	ND	0.2	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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Thorium 230 in WaterSample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 77604	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	12/01/11 9:21	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 77604	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-325	12/02/11 13:36	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 77604	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-325	12/01/11 9:21	Thorium 230 (Dissolved)	14	0.2	12		113	67.1 - 134	
		Thorium 230 (Suspended)	14	0.2	12		113	69.2 - 127	

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

Sample ID	RunNo: 77604	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111239-001F DUP	12/01/11 9:21	Thorium 230 (Dissolved)	ND	0.2	ND			20	

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

Sample ID	RunNo: 77480	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R77480	11/16/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 77480	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R77480	11/16/11 0:00	Radon-222	20600	100	22500		91.6	75 - 125	L

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

Sample ID	RunNo: 77480	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111238-001A	11/16/11 0:00	Radon-222	130	50	140	2.94		20	L

Silica as SiO2Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 77061	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	11/17/11 10:19	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 77061	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	11/17/11 10:22	Silica as SiO2	2.1	0.1	2.14		98.6	85 - 115	

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

Sample ID	RunNo: 77061	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111253-001DD	11/17/11 19:22	Silica as SiO2	9.2	0.1	9.5	3.28		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

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

Sample ID	RunNo: 77155	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	11/17/11 8:17	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 77155	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	11/17/11 8:18	Total Dissolved Solids (180)	210	10	226		94.7	90 - 110	

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

Sample ID	RunNo: 77155	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111235-010A	11/17/11 8:29	Total Dissolved Solids (180)	40	10	30	5.88		20	

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

Sample ID	RunNo: 77120	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5631	11/18/11 17:00	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 77120	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5631	11/18/11 17:02	Iron	0.48	0.05	0.5		95.1	85 - 115	
		Manganese	0.20	0.02	0.2		98.0	85 - 115	

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

Sample ID	RunNo: 77120	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111237-001ES	11/18/11 17:18	Iron	0.57	0.05	0.5	0.09	96.4	70 - 130	
		Manganese	0.26	0.02	0.2	0.06	98.0	70 - 130	

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

Sample ID	RunNo: 77120	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1111237-001EMSD	11/18/11 17:21	Iron	0.57	0.05	0.57	0.878		20	
		Manganese	0.25	0.02	0.26	1.28		20	

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

Sample ID	RunNo: 77120	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111236-001ED	11/18/11 17:07	Iron	0.07	0.05	0.07	4.57		20	
		Manganese	0.04	0.02	0.04	1.67		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: S1111238
Project: Reno Creek Project

Date: 1/4/2012
Report ID: S1111238001

Suspended Natural Uranium

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

Sample ID	RunNo: 77138	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	11/18/11 11:31	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 77138	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	11/18/11 11:26	Uranium Suspended	0.101	0.0003	0.1		101	85 - 115	

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

Sample ID	RunNo: 77138	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1111236-001FS	11/19/11 0:47	Uranium Suspended	1.06	0.0003	1.1	ND	96.3	70 - 130	

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

Sample ID	RunNo: 77138	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1111236-001FMSD	11/19/11 0:51	Uranium Suspended	1.09	0.0003	1.06	2.44		20	

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

Sample ID	RunNo: 77138	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111236-001FD	11/19/11 0:42	Uranium Suspended	ND	0.0003	ND			20	

pH Water

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

Sample ID	RunNo: 77050	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	11/17/11 11:09	pH	8.5	0.1	8.48		99.7	90 - 110	

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

Sample ID	RunNo: 77050	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1111240-003AD	11/17/11 19:12	pH	8.1	0.1	8.0	1.74		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) 662-8945

- CHAIN OF CUSTODY RECORD -
 This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08407

Client Name: **AUC LLC**
 Report Address: **pcavendor@auc-llc.com; tricketson@treccorp.com; jehryer@treccorp.com**
 Invoice Address: **AUC LLC**
 900 Spruce Ct. Ste 150
 Casper WY 82601

Project Identification: **Reno Check Project**
 Contact Name: **Traic Nickerson**
 Email: **tricketson@treccorp.com**
 Phone: **307-265-0696**
 Purchase Order #:
 Quote #:

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 WYPDES Discharge
 See Attached Table 9 (Blanks)

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1							
2	5111238-001	11/5/11	1330	5M7-002-111115	WT	13	X
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

LAB COMMENTS: Relinquished By (Signature/Printed): *Traic Nickerson* DATE: 11/5/11 TIME: 1625

DATE: 11/6/11 TIME: 10:03

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

ADDITIONAL REMARKS: 4:3