



Monday, September 26, 2011

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

RE: Reno Creek Project

Order No.: S1108229

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples OM1-004-110811 on August 11, 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: 9/26/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1108229

CASE NARRATIVE
Report ID: S1108229001

Sample OM1-004-110811 was received on August 11, 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-R73904 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R73904 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1108229-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1108111-001 - Radiochemistry/Polonium 210 (Dissolved) - Spike Recovery outside accepted recovery limits (1)

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

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 9/26/2011
Report ID S1108229001

ProjectName: Reno Creek Project
Lab ID: S1108229-001
ClientSample ID: OM1-004-110811
COC: RC 08348

WorkOrder: S1108229
CollectionDate: 8/11/2011 3:05:00 PM
DateReceived: 8/11/2011 5:07:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	9.17	s.u.			Field	8/11/2011 3:05:00 PM
pH Reading 2	9.18	s.u.			Field	8/11/2011 3:05:00 PM
pH Reading 3	9.17	s.u.			Field	8/11/2011 3:05:00 PM
Conductivity Reading 1	1895	µmhos/cm			Field	8/11/2011 3:05:00 PM
Conductivity Reading 2	1894	µmhos/cm			Field	8/11/2011 3:05:00 PM
Conductivity Reading 3	1887	µmhos/cm			Field	8/11/2011 3:05:00 PM
Turbidity Reading 1	0.7	NTU			Field	8/11/2011 3:05:00 PM
Turbidity Reading 2	0.5	NTU			Field	8/11/2011 3:05:00 PM
Turbidity Reading 3	0.7	NTU			Field	8/11/2011 3:05:00 PM
Dissolved Oxygen Reading 1	0.37	mg/L			Field	8/11/2011 3:05:00 PM
Dissolved Oxygen Reading 2	0.32	mg/L			Field	8/11/2011 3:05:00 PM
Dissolved Oxygen Reading 3	0.31	mg/L			Field	8/11/2011 3:05:00 PM
Temperature Reading 1	14.19	°C			Field	8/11/2011 3:05:00 PM
Temperature Reading 2	14.61	°C			Field	8/11/2011 3:05:00 PM
Temperature Reading 3	14.51	°C			Field	8/11/2011 3:05:00 PM
Oxygen Reduction Potential Reading	-61.1	mV			Field	8/11/2011 3:05:00 PM
Oxygen Reduction Potential Reading	-64.5	mV			Field	8/11/2011 3:05:00 PM
Oxygen Reduction Potential Reading	-65.0	mV			Field	8/11/2011 3:05:00 PM
Purge Rate Reading 1	250	ml/min			Field	8/11/2011 3:05:00 PM
Purge Rate Reading 2	250	ml/min			Field	8/11/2011 3:05:00 PM
Purge Rate Reading 3	250	ml/min			Field	8/11/2011 3:05:00 PM
Water Level Reading 1	179.88	Ft			Field	8/11/2011 3:05:00 PM
Water Level Reading 2	179.89	Ft			Field	8/11/2011 3:05:00 PM
Water Level Reading 3	179.89	Ft			Field	8/11/2011 3:05:00 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

Date Reported 9/26/2011
Report ID S1108229001

ProjectName: Reno Creek Project
Lab ID: S1108229-001
ClientSample ID: OM1-004-110811
COC: RC 08348

WorkOrder: S1108229
CollectionDate: 8/11/2011 3:05:00 PM
DateReceived: 8/11/2011 5:07:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	224	mg/L		5	SM 2320B	8/12/2011 6:22:20 PM	AMB
Alkalinity, Bicarbonate as HCO3	273	mg/L		5	SM 2320B	8/12/2011 6:22:20 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	8/12/2011 6:22:20 PM	AMB
Chloride	6	mg/L		1	EPA 300.0	8/15/2011 3:02:00 PM	ARF
Fluoride	0.2	mg/L		0.1	SM 4500FC	8/12/2011 6:22:20 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	8/17/2011 12:32:00 PM	MEL
Sulfate	794	mg/L		1	EPA 300.0	8/15/2011 3:02:00 PM	ARF
Calcium	195	mg/L		1	EPA 200.7	8/15/2011 12:11:19 PM	DG
Magnesium	44	mg/L		1	EPA 200.7	8/15/2011 12:11:19 PM	DG
Potassium	12	mg/L		1	EPA 200.7	8/15/2011 12:11:19 PM	DG
Sodium	218	mg/L		1	EPA 200.7	8/15/2011 12:11:19 PM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	8/16/2011 5:18:00 PM	MEL
Silica as SiO2	13	mg/L		1	EPA 200.7	8/15/2011 12:11:19 PM	DG
General Parameters							
pH	7.9	s.u.		0.1	SM 4500 H B	8/12/2011 6:22:20 PM	AMB
Electrical Conductivity	1960	µmhos/cm		5	SM 2510B	8/12/2011 6:22:20 PM	AMB
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	8/12/2011 12:15:00 PM	JF
Data Quality							
Cation Sum	23.13	meq/L		0.01	SM 1030E	8/18/2011 10:33:30 AM	LJK
Anion Sum	21.19	meq/L		0.01	SM 1030E	8/18/2011 10:33:30 AM	LJK
Cation-Anion Balance (± 5%)	4.37	%		0.01	SM 1030E	8/18/2011 10:33:30 AM	LJK
Solids, Total Dissolved (Calc)	1420	mg/L		10	SM 1030E	8/18/2011 10:33:30 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.17	dec. %		0.01	Calculation	8/18/2011 10:41:15 AM	LJK

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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: S1108229-001
ClientSample ID: OM1-004-110811
COC: RC 08348

Date Reported: 9/26/2011
Report ID: S1108229001
WorkOrder: S1108229
CollectionDate: 8/11/2011 3:05:00 PM
DateReceived: 8/11/2011 5:07:00 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.

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 9/26/2011
Report ID S1108229001

ProjectName: Reno Creek Project
Lab ID: S1108229-001
ClientSample ID: OM1-004-110811
COC: RC 08348

WorkOrder: S1108229
CollectionDate: 8/11/2011 3:05:00 PM
DateReceived: 8/11/2011 5:07:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		5	SM 7110B	9/23/2011 1:07:00 AM	SH
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	9/23/2011 1:07:00 AM	SH
Gross Beta	12.5	pCi/L		8	SM 7110B	9/23/2011 1:07:00 AM	SH
Gross Beta Precision (±)	5.5	pCi/L			SM 7110B	9/23/2011 1:07:00 AM	SH
Lead 210	ND	pCi/L		1	OTW01	8/31/2011 10:26:41 AM	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	8/31/2011 10:26:41 AM	SH
Polonium 210	ND	pCi/L		1	OTW01	8/30/2011 5:10:45 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	8/30/2011 5:10:45 PM	SH
Radium 226	0.4	pCi/L		0.2	SM 7500-Ra B	8/29/2011 2:42:00 PM	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	8/29/2011 2:42:00 PM	SH
Radium 228	1.4	pCi/L		1	Ra-05	8/25/2011 3:59:00 PM	SH
Radium 228 Precision (±)	1.0	pCi/L			Ra-05	8/25/2011 3:59:00 PM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	8/22/2011 1:52:00 PM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	8/22/2011 1:52:00 PM	SH
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	8/31/2011 7:11:42 PM	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	8/31/2011 7:11:42 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	8/31/2011 5:03:15 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	8/31/2011 5:03:15 PM	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	8/22/2011 3:21:55 PM	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	8/22/2011 3:21:55 PM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	9/6/2011 1:16:00 PM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	9/6/2011 1:16:00 PM	SH
Radionuclides - Total							
Radon 222	119	pCi/L	L	50	SM7500-RN	8/12/2011	LJK
Radon 222 Precision (±)	25	pCi/L	L		SM7500-RN	8/12/2011	LJK

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- S Spike Recovery outside accepted recovery limits

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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: 
Lacey Ketron, Water Lab Supervisor



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Alkalinity

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/12/11 15:34	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/12/11 15:26	Alkalinity, Total (As CaCO3)	591	5	601		98.4	90 - 110	

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108226-002AD	08/12/11 17:39	Alkalinity, Bicarbonate as HCO3	62	5	62	0.159		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	51	5	51	0.159		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/12/11 15:34	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/12/11 15:26	Electrical Conductivity	1100	5	1120		97.9	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 73352	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108226-002AD	08/12/11 17:39	Electrical Conductivity	2020	5	2010	0.498		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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 73449	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	08/16/11 10:03	Mercury	ND	0.001					

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

Sample ID	RunNo: 73449	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/16/11 9:56	Mercury	0.002	0.001	0.002		98.3	85 - 115	

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

Sample ID	RunNo: 73449	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108212-002C	08/16/11 11:19	Mercury	0.002	0.001	0.00244	ND	94.8	70 - 130	

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

Sample ID	RunNo: 73449	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108212-002C	08/16/11 11:21	Mercury	0.002	0.001	0.002	0.463	94.4	20	

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

Sample ID	RunNo: 73449	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108212-002C	08/16/11 11:17	Mercury	ND	0.001	ND			20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
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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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

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

Sample ID	RunNo: 73409	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/15/11 11:20	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: 73409	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/15/11 11:22	Aluminum	1.0	0.1	1		102	85 - 115	
		Boron	1.0	0.1	1		104	85 - 115	
		Chromium	1.05	0.01	1		105	85 - 115	
		Iron	1.04	0.05	1		104	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.05	0.01	1		105	85 - 115	
		Zinc	1.04	0.01	1		104	85 - 115	

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

Sample ID	RunNo: 73409	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108244-004CS	08/15/11 12:27	Aluminum	0.6	0.1	0.5	ND	114	70 - 130	
		Boron	0.9	0.1	0.5	0.4	107	70 - 130	
		Chromium	0.56	0.01	0.5	ND	113	70 - 130	
		Iron	0.56	0.05	0.5	ND	112	70 - 130	
		Manganese	0.56	0.02	0.5	ND	111	70 - 130	
		Nickel	0.55	0.01	0.5	ND	110	70 - 130	
		Zinc	0.57	0.01	0.5	ND	113	70 - 130	

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

Sample ID	RunNo: 73409	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108244-004CSD	08/15/11 12:29	Aluminum	0.6	0.1	0.6	2.82	111	20	
		Boron	0.9	0.1	0.9	1.52	104	20	
		Chromium	0.55	0.01	0.56	3.37	109	20	
		Iron	0.54	0.05	0.56	3.05	109	20	
		Manganese	0.54	0.02	0.56	3.42	107	20	
		Nickel	0.53	0.01	0.55	3.32	107	20	
		Zinc	0.55	0.01	0.57	3.67	109	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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 73409	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108244-003CD	08/15/11 12:22	Aluminum	ND	0.1	ND			20	
		Boron	0.4	0.1	0.4	0.482		20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	ND			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: 73341	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/12/11 12:45	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: 73341	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/12/11 12:40	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		101	85 - 115	
		Cadmium	0.101	0.002	0.1		101	85 - 115	
		Copper	0.10	0.01	0.1		97.1	85 - 115	
		Lead	0.10	0.02	0.1		99.5	85 - 115	
		Molybdenum	0.10	0.02	0.1		101	85 - 115	
		Selenium	0.099	0.005	0.1		98.9	85 - 115	
		Uranium	0.095	0.001	0.1		94.6	85 - 115	
		Vanadium	0.10	0.02	0.1		98.0	85 - 115	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

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

Sample ID	RunNo: 73341	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108248-001DS	08/12/11 17:27	Arsenic	1.13	0.005	1.1	0.011	102	70 - 130	
		Barium	1.1	0.5	1.1	ND	102	70 - 130	
		Cadmium	1.10	0.002	1.1	ND	99.7	70 - 130	
		Copper	1.06	0.01	1.1	ND	96.7	70 - 130	
		Lead	1.10	0.02	1.1	ND	99.6	70 - 130	
		Molybdenum	1.11	0.02	1.1	ND	100	70 - 130	
		Selenium	1.08	0.005	1.1	ND	98.2	70 - 130	
		Uranium	1.07	0.001	1.1	ND	97.5	70 - 130	
		Vanadium	1.07	0.02	1.1	ND	96.8	70 - 130	

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

Sample ID	RunNo: 73341	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108248-001DMSD	08/12/11 17:31	Arsenic	1.13	0.005	1.13	0.392	101	20	
		Barium	1.1	0.5	1.1	0.402	101	20	
		Cadmium	1.11	0.002	1.10	0.802	101	20	
		Copper	1.06	0.01	1.06	0.340	96.4	20	
		Lead	1.09	0.02	1.10	0.913	98.7	20	
		Molybdenum	1.11	0.02	1.11	0.364	101	20	
		Selenium	1.08	0.005	1.08	0.170	98.0	20	
		Uranium	1.05	0.001	1.07	2.03	95.5	20	
		Vanadium	1.07	0.02	1.07	0.506	97.3	20	

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

Sample ID	RunNo: 73341	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108248-001DD	08/12/11 17:23	Arsenic	0.011	0.005	0.011	3.32		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	ND			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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Fluoride by SM 4500

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/12/11 15:34	Fluoride	ND	0.1					

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/12/11 15:26	Fluoride	3.1	0.1	2.96		103	90 - 110	

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108244-004ASPK	08/12/11 20:01	Fluoride	5.8	0.1	2.5	3.4	96.4	80 - 120	

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108226-002AD	08/12/11 17:39	Fluoride	0.1	0.1	0.1	2.65		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 74971	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-262	09/23/11 1:07	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 74971	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-262	09/23/11 1:07	Gross Alpha (Dissolved)	80	2	73.6		108	83 - 133	
		Gross Beta (Dissolved)	136	3	126		108	88 - 115	

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

Sample ID	RunNo: 74971	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108390-002EMS	09/23/11 1:07	Gross Alpha (Dissolved)	71	2	73.6	ND	96.3	48 - 153	
		Gross Beta (Dissolved)	156	3	126	9	117	60 - 140	

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

Sample ID	RunNo: 74971	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108402-001FDUP	09/23/11 1:07	Gross Alpha (Dissolved)	23	3	22	2.15		20	
		Gross Beta (Dissolved)	8	4	10	17.5		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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Anions by ION Chromatography

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

Sample ID	RunNo: 73422	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/15/11 9:40	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 73422	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/15/11 9:53	Chloride	32	1	30		107	90 - 110	
		Sulfate	152	1	150		101	90 - 110	

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

Sample ID	RunNo: 73422	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108244-019ASPK	08/15/11 13:14	Chloride	131	1	80	53	97.5	80 - 120	
		Sulfate	1030	1	640	379	101	80 - 120	

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

Sample ID	RunNo: 73422	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108244-019AD	08/15/11 13:01	Chloride	53	1	53	0.0148		20	
		Sulfate	378	1	379	0.0272		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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

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

Sample ID	RunNo: 73408	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/15/11 11:20	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 73408	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/15/11 11:24	Calcium	40	1	40		99.1	85 - 115	
		Magnesium	38	1	40		96.1	85 - 115	
		Potassium	41	1	40		103	85 - 115	
		Sodium	40	1	40		98.7	85 - 115	

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

Sample ID	RunNo: 73408	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108244-004AS	08/15/11 12:27	Calcium	82	1	25	60	87.5	70 - 130	
		Magnesium	44	1	25	18	106	70 - 130	
		Potassium	48	1	25	20	114	70 - 130	
		Sodium	115	1	25	95	79.8	70 - 130	

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

Sample ID	RunNo: 73408	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108244-004ASD	08/15/11 12:29	Calcium	81	1	82	1.19	83.6	20	
		Magnesium	44	1	44	1.59	103	20	
		Potassium	47	1	48	1.76	111	20	
		Sodium	114	1	115	1.14	74.6	20	

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

Sample ID	RunNo: 73408	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108244-003AD	08/15/11 12:22	Calcium	67	1	67	0.388		20	
		Magnesium	20	1	20	0.355		20	
		Potassium	21	1	21	0.211		20	
		Sodium	95	1	95	0.216		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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 73494	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/16/11 16:30	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 73494	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/16/11 16:32	Nitrogen, Ammonia (As N)	8.4	0.1	8.93		93.6	90 - 110	

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

Sample ID	RunNo: 73494	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108250-004B	08/16/11 16:49	Nitrogen, Ammonia (As N)	10.2	0.1	10	ND	102	80 - 120	

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

Sample ID	RunNo: 73494	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108250-004B	08/16/11 16:48	Nitrogen, Ammonia (As N)	ND	0.1	ND			20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 73520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/17/11 10:43	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 73520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/17/11 10:45	Nitrogen, Nitrate-Nitrite (as N)	10.2	0.1	10		102	90 - 110	

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

Sample ID	RunNo: 73520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108242-001B	08/17/11 12:36	Nitrogen, Nitrate-Nitrite (as N)	10.9	0.05	10	ND	109	80 - 120	

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

Sample ID	RunNo: 73520	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108242-001B	08/17/11 12:35	Nitrogen, Nitrate-Nitrite (as N)	ND	0.05	ND			20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 74007	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-228 08/30/11 18:27 Lead 210 (Dissolved) ND 1

Sample ID	RunNo: 74008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-228 08/30/11 14:43 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 74010	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-230 08/31/11 15:25 Polonium 210 (Suspended) ND 1

Sample ID	RunNo: 74009	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-230 09/01/11 8:52 Lead 210 (Suspended) ND 1

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

Sample ID	RunNo: 74007	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-228 08/30/11 18:27 Lead 210 (Dissolved) 15 1 13 112 67.6 - 131

Sample ID	RunNo: 74008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-228 08/30/11 14:43 Polonium 210 (Dissolved) 13 1 13 100 35.1 - 175

Sample ID	RunNo: 74010	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-230 PO 08/31/11 15:25 Polonium 210 (Suspended) 4 1 2.99 128 48.6 - 156

Sample ID	RunNo: 74009	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-230 08/31/11 19:11 Lead 210 (Suspended) 13 1 13 98.6 60.3 - 141

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

Sample ID	RunNo: 74007	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108111-001EMS 08/30/11 18:27 Lead 210 (Dissolved) 15 1 13 2 103 66 - 133

Sample ID	RunNo: 74008	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108111-001EMS 08/30/11 14:43 Polonium 210 (Dissolved) 2 1 13 ND 18.0 20.9 - 160 S

Sample ID	RunNo: 74010	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108111-001EMS 08/31/11 15:25 Polonium 210 (Suspended) 15 1 13 ND 115 28 - 173

Sample ID	RunNo: 74009	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108111-001EMS 08/31/11 19:11 Lead 210 (Suspended) 14 1 13 ND 106 62.4 - 132

- 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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 74007	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108167-001FDUP 08/30/11 18:27 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 74008	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108167-001FDUP 08/30/11 14:43 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 74010	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108111-003EDUP 08/31/11 15:25 Polonium 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 74009	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108111-003EDUP 08/31/11 17:03 Lead 210 (Suspended) ND 1 1 20

Radium 228

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

Sample ID	RunNo: 73886	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-234 08/25/11 15:59 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 73886	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-234 08/25/11 15:59 Radium 228 (Dissolved) 10 1 10.1 102 74.9 - 122

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

Sample ID	RunNo: 73886	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108342-002FMS 08/25/11 15:59 Radium 228 (Dissolved) 13 1 10.1 ND 130 48.4 - 167

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

Sample ID	RunNo: 73886	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108111-004EDUP 08/25/11 15:59 Radium 228 (Dissolved) 1 1 2 37.6 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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Radium 226 by SM 7500

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

Sample ID	RunNo: 73657	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-228	08/22/11 12:44	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 74006	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-235	08/29/11 14:42	Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 73657	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DLCS11-228	08/22/11 12:44	Radium 226 (Suspended)	4.9	0.2	5		98.5	56.4 - 132	

Sample ID	RunNo: 74006	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-235	08/29/11 14:42	Radium 226 (Dissolved)	4.5	0.2	5		90.9	62.5 - 125	

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

Sample ID	RunNo: 73657	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108168-001FMS	08/22/11 15:21	Radium 226 (Suspended)	5.1	0.2	5	ND	101	51.4 - 135	

Sample ID	RunNo: 74006	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108400-001FMS	08/29/11 18:23	Radium 226 (Dissolved)	5.4	0.2	5	0.3	101	41.6 - 146	

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

Sample ID	RunNo: 73657	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108248-003FDUP	08/22/11 12:44	Radium 226 (Dissolved)	0.3	0.2	0.4	16.0		20	

Sample ID	RunNo: 73657	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108167-001FDUP	08/22/11 15:21	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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

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

Sample ID	RunNo: 73853	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-227	08/19/11 12:01	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 74275	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-240	09/06/11 9:08	Thorium 230 (Dissolved)	ND	0.2					
		Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73853	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-227	08/19/11 12:01	Thorium 230 (Dissolved)	12	0.2	12		96.8	67.1 - 134	

Sample ID	RunNo: 74275	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-240	09/06/11 9:08	Thorium 230 (Dissolved)	11	0.2	12		89.6	67.1 - 134	
		Thorium 230 (Suspended)	11	0.2	12		89.6	69.2 - 127	

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

Sample ID	RunNo: 73853	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108213-001EDUP	08/22/11 8:40	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 74275	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108535-002FDUP	09/07/11 9:06	Thorium 230 (Dissolved)	ND	0.2	ND			20	

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

Sample ID	RunNo: 73904	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73904	08/12/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 73904	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73904	08/12/11 0:00	Radon-222	23500	100	22500		104	75 - 125	L

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

Sample ID	RunNo: 73904	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108229-001A	08/12/11 0:00	Radon-222	110	50	120	4.20		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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

Silica as SiO2

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

Sample ID	RunNo: 73411	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/15/11 11:20	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 73411	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/15/11 11:22	Silica as SiO2	2.1	0.1	2.14		100	85 - 115	

Solids By SM 2540

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

Sample ID	RunNo: 73481	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	08/12/11 9:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 73481	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	08/12/11 9:15	Total Dissolved Solids (180)	220	10	226		98.2	90 - 110	

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

Sample ID	RunNo: 73481	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108168-001A	08/12/11 9:35	Total Dissolved Solids (180)	3050	10	3060	0.392		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: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

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

Sample ID	RunNo: 73538	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5385	08/18/11 14:10	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 73538	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5385	08/18/11 14:13	Iron	0.50	0.05	0.5		99.3	85 - 115	
		Manganese	0.20	0.02	0.2		99.0	85 - 115	

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

Sample ID	RunNo: 73538	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108252-004DS	08/18/11 15:00	Iron	5.69	0.05	0.5	5.22	94.7	70 - 130	
		Manganese	0.45	0.02	0.2	0.25	99.5	70 - 130	

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

Sample ID	RunNo: 73538	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108252-003DD	08/18/11 14:56	Manganese	0.08	0.02	0.08	3.47		20	

Sample ID	RunNo: 73600	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108252-003DD	08/19/11 16:30	Iron	0.87	0.05	0.87	0.0344		20	

Suspended Natural UraniumSample Type **LCS** Units: mg/L

Sample ID	RunNo: 73666	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/23/11 9:12	Uranium Suspended	0.0924	0.0003	0.1		92.4	85 - 115	

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

Sample ID	RunNo: 73666	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108194-001FS	08/23/11 11:44	Uranium Suspended	1.06	0.0003	1.1	ND	96.1	70 - 130	

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

Sample ID	RunNo: 73666	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108194-001FMSD	08/23/11 11:48	Uranium Suspended	1.05	0.0003	1.06	0.754	95.4	20	

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

Sample ID	RunNo: 73666	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108194-001FD	08/23/11 11:40	Uranium Suspended	ND	0.0003	ND			20	

Qualifiers:

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108229
Project: Reno Creek Project

Date: 9/26/2011
Report ID: S1108229001

pH Water

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/12/11 15:26	pH	8.6	0.1	8.48		102	90 - 110	

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

Sample ID	RunNo: 73352	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108226-002AD	08/12/11 17:39	pH	8.1	0.1	8.0	0.263		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

- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Report Address pcavendor@auc-llc.com; thickerson@treecorp.com; jshriver@treecorp.com		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Joni Wickson</i>		Telephone #	
Invoice Address AUC LLC <i>909 W. Green Ct. Ste 150 Casper WY 82601</i>		Contact Name <i>Joni Wickson</i>		Email <i>thickerson@treecorp.com</i>		Phone <i>307-265-0696</i>		Purchase Order #	
ITEM		LAB ID		DATE SAMPLED		TIME		SAMPLE IDENTIFICATION	
1		251008298		8/11/11		1505		OM-004-110811	
2		251008298		8/11/11		1505		WJ 13 X	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
LAB COMMENTS Relinquished By (Signature/Printed) <i>Joni Wickson</i>									
DATE TIME 8/11/11 1505									
Received By (Signature/Printed) <i>Smartys</i>									
DATE TIME 8/11/11 1505									
REMARKS <i>Please see Lab 222</i>									
REMARKS <i>Greenwater</i>									
SHIPPING INFO UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other <input checked="" type="checkbox"/>									
MATRIX CODES Water <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Trip Blank <input type="checkbox"/> Other <input type="checkbox"/>									
TURNAROUND TIMES Check desired service <input type="checkbox"/> Standard turnaround <input checked="" type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <input type="checkbox"/>									
COMPLIANCE INFORMATION Compliance Monitoring? <input checked="" type="checkbox"/> Program (SDWA, NPDES,...) <input type="checkbox"/> PWSID / Permit # <input type="checkbox"/> Chlorinated? <input type="checkbox"/>									
ADDITIONAL REMARKS									