



Friday, April 08, 2011

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

RE: Reno Creek Project

Order No.: S1102089

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples SM6-001-110207 on February 8, 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: 4/8/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1102089

CASE NARRATIVE
Report ID: S1102089002
(Replaces S1102089001)

Sample SM6-001-110207 was received on February 8, 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

S1102089-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

MB-R67916 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R67916 - 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

Date Reported 4/8/2011
Report ID S1102089002
(Replaces S1102089001)

ProjectName: Reno Creek Project
Lab ID: S1102089-001
ClientSample ID: SM6-001-110207
COC: RC 08005

WorkOrder: S1102089
CollectionDate: 2/7/2011 10:45:00 AM
DateReceived: 2/8/2011 10:15:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	8.42	s.u.			Field	2/7/2011 10:45:00 AM
pH Reading 2	8.51	s.u.			Field	2/7/2011 10:45:00 AM
pH Reading 3	8.44	s.u.			Field	2/7/2011 10:45:00 AM
Conductivity Reading 1	1294	µmhos/cm			Field	2/7/2011 10:45:00 AM
Conductivity Reading 2	1304	µmhos/cm			Field	2/7/2011 10:45:00 AM
Conductivity Reading 3	1249	µmhos/cm			Field	2/7/2011 10:45:00 AM
Turbidity Reading 1	304	NTU			Field	2/7/2011 10:45:00 AM
Turbidity Reading 2	362	NTU			Field	2/7/2011 10:45:00 AM
Turbidity Reading 3	840	NTU			Field	2/7/2011 10:45:00 AM
Dissolved Oxygen Reading 1	3.61	mg/L			Field	2/7/2011 10:45:00 AM
Dissolved Oxygen Reading 2	2.46	mg/L			Field	2/7/2011 10:45:00 AM
Dissolved Oxygen Reading 3	2.07	mg/L			Field	2/7/2011 10:45:00 AM
Temperature Reading 1	9.05	°C			Field	2/7/2011 10:45:00 AM
Temperature Reading 2	8.70	°C			Field	2/7/2011 10:45:00 AM
Temperature Reading 3	7.43	°C			Field	2/7/2011 10:45:00 AM
Oxygen Reduction Potential Reading	183.7	mV			Field	2/7/2011 10:45:00 AM
Oxygen Reduction Potential Reading	158.5	mV			Field	2/7/2011 10:45:00 AM
Oxygen Reduction Potential Reading	151.7	mV			Field	2/7/2011 10:45:00 AM
Water Level Reading 1	73.03	Ft			Field	2/7/2011 10:45:00 AM
Water Level Reading 2	74.51	Ft			Field	2/7/2011 10:45:00 AM
Water Level Reading 3	75.06	Ft			Field	2/7/2011 10:45:00 AM

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: S1102089-001
ClientSample ID: SM6-001-110207
COC: RC 08005

Date Reported: 4/8/2011
Report ID: S1102089002
(Replaces S1102089001)

WorkOrder: S1102089
CollectionDate: 2/7/2011 10:45:00 AM
DateReceived: 2/8/2011 10:15:00 AM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	84	mg/L		5	SM 2320B	2/8/2011 9:51:31 PM	AMB
Alkalinity, Bicarbonate as HCO3	103	mg/L		5	SM 2320B	2/8/2011 9:51:31 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	2/8/2011 9:51:31 PM	AMB
Chloride	5	mg/L		1	EPA 300.0	2/9/2011 12:50:00 AM	KO
Fluoride	0.3	mg/L		0.1	SM 4500FC	2/8/2011 9:51:31 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	2/10/2011 1:00:00 PM	AS
Sulfate	832	mg/L		1	EPA 300.0	2/9/2011 12:50:00 AM	KO
Calcium	133	mg/L		1	EPA 200.7	2/14/2011 3:38:29 PM	DG
Magnesium	19	mg/L		1	EPA 200.7	2/10/2011 12:47:41 PM	DG
Potassium	10	mg/L		1	EPA 200.7	2/10/2011 12:47:41 PM	DG
Sodium	294	mg/L		1	EPA 200.7	2/14/2011 3:38:29 PM	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	2/8/2011 3:33:00 PM	AS
Silica as SiO2	6	mg/L		1	EPA 200.7	2/10/2011 12:47:41 PM	DG
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	2/8/2011 9:51:31 PM	AMB
Electrical Conductivity	1800	µmhos/cm		5	SM 2510B	2/8/2011 9:51:31 PM	AMB
Total Dissolved Solids (180)	1450	mg/L		10	SM 2540	2/8/2011 6:20:00 PM	JF
Data Quality							
Cation Sum	21.26	meq/L		0.01	SM 1030E	2/15/2011 10:56:45 AM	AMB
Anion Sum	19.25	meq/L		0.01	SM 1030E	2/15/2011 10:56:45 AM	AMB
Cation-Anion Balance (± 5%)	4.94	%		0.01	SM 1030E	2/15/2011 10:56:45 AM	AMB
Solids, Total Dissolved (Calc)	1340	mg/L		10	SM 1030E	2/15/2011 10:56:45 AM	AMB
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec %		0.01	Calculation	3/7/2011 10:10:56 AM	LJK

These results apply only to the samples tested.

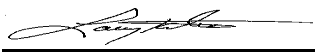
RL - Reporting Limit

Qualifiers:

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Reviewed by:


Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported: 4/8/2011
Report ID: S1102089002
(Replaces S1102089001)

ProjectName: Reno Creek Project
Lab ID: S1102089-001
ClientSample ID: SM6-001-110207
COC: RC 08005

WorkOrder: S1102089
CollectionDate: 2/7/2011 10:45:00 AM
DateReceived: 2/8/2011 10:15:00 AM
FieldSampler: TN
Matrix: Water

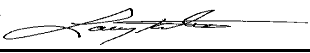
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	2/10/2011 12:47:41 PM	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	2/8/2011 5:30:57 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	2/8/2011 5:30:57 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	2/10/2011 12:47:41 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	2/8/2011 5:30:57 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	2/10/2011 12:47:41 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	2/8/2011 5:30:57 PM	MS
Iron	ND	mg/L		0.05	EPA 200.7	2/10/2011 12:47:41 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	2/8/2011 5:30:57 PM	MS
Manganese	0.08	mg/L		0.01	EPA 200.7	2/10/2011 12:47:41 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	2/15/2011 10:58:43 AM	BK
Molybdenum	0.02	mg/L		0.01	EPA 200.8	2/8/2011 5:30:57 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	2/10/2011 12:47:41 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	2/8/2011 5:30:57 PM	MS
Uranium	0.0268	mg/L		0.0003	EPA 200.8	2/8/2011 5:30:57 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	2/8/2011 5:30:57 PM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	2/10/2011 12:47:41 PM	DG
Metals - Suspended							
Uranium	0.0032	mg/L		0.0003	EPA 200.8	2/11/2011 3:21:14 PM	MS
Metals - Total							
Iron	3.01	mg/L		0.05	EPA 200.7	2/11/2011 2:39:00 PM	DG
Manganese	0.23	mg/L		0.01	EPA 200.7	2/11/2011 2:39:00 PM	DG

These results apply only to the samples tested.

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Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 4/8/2011
Report ID S1102089002
(Replaces S1102089001)

ProjectName: Reno Creek Project
Lab ID: S1102089-001
ClientSample ID: SM6-001-110207
COC: RC 08005

WorkOrder: S1102089
CollectionDate: 2/7/2011 10:45:00 AM
DateReceived: 2/8/2011 10:15:00 AM
FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Gross Beta, Lead 210, Polonium 210, Radium 226, Radium 228, Thorium 230) and Radionuclides - Suspended (Lead 210, Polonium 210, Radium 226, Thorium 230). Radon 222 is also listed under Radionuclides - Total.

These results apply only to the samples tested.

RL - Reporting Limit

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1102089
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102089002
 (Replaces S1102089001)

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

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/08/11 14:00	Alkalinity, Total (As CaCO3)	ND	5					

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/08/11 22:57	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/08/11 13:51	Alkalinity, Total (As CaCO3)	476	5	473		101	96.6 - 103	

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/08/11 22:48	Alkalinity, Total (As CaCO3)	478	5	473		101	96.6 - 103	

Test: **Conductivity**Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/08/11 14:00	Electrical Conductivity	ND	5					

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/08/11 22:57	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/08/11 13:51	Electrical Conductivity	990	5	1000		99.0	90 - 110	

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/08/11 22:48	Electrical Conductivity	959	5	1000		95.9	90 - 110	

Test: **Dissolved Mercury by EPA 245.1 - Water**Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 67425	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	02/15/11 9:19	Mercury	ND	0.001					

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

Sample ID	RunNo: 67425	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/15/11 9:18	Mercury	0.002	0.001	0.002		101	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: S1102089
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102089002
(Replaces S1102089001)

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

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

Sample ID	RunNo: 67291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	02/10/11 9:56	Aluminum	ND	0.1					
		Boron	ND	0.03					
		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: 67291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	02/10/11 9:58	Aluminum	1.0	0.1	1		104	85 - 115	
		Boron	1.03	0.03	1		101	85 - 115	
		Chromium	1.04	0.01	1		104	85 - 115	
		Iron	1.00	0.05	1		100	85 - 115	
		Manganese	1.04	0.02	1		104	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	1.01	0.01	1		101	85 - 115	

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

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

Sample ID	RunNo: 67209	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	02/08/11 15:03	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							

- 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: S1102089
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102089002
(Replaces S1102089001)

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

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

Sample ID	RunNo: 67209	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/08/11 15:10	Arsenic	0.097	0.005	0.1		96.7	85 - 115	
		Barium	ND	0.5	0.1		93.9	85 - 115	
		Cadmium	0.097	0.002	0.1		97.3	85 - 115	
		Copper	0.09	0.01	0.1		93.1	85 - 115	
		Lead	0.10	0.02	0.1		99.5	85 - 115	
		Molybdenum	0.10	0.02	0.1		95.9	85 - 115	
		Selenium	0.098	0.005	0.1		98.0	85 - 115	
		Uranium	0.100	0.001	0.1		100	85 - 115	
		Vanadium	0.10	0.02	0.1		96.0	85 - 115	

Sample ID	RunNo: 67209	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/08/11 17:02	Arsenic	0.098	0.005	0.1		97.8	85 - 115	
		Barium	ND	0.5	0.1		96.2	85 - 115	
		Cadmium	0.100	0.002	0.1		100	85 - 115	
		Copper	0.09	0.01	0.1		93.2	85 - 115	
		Lead	0.10	0.02	0.1		100	85 - 115	
		Molybdenum	0.10	0.02	0.1		96.7	85 - 115	
		Selenium	0.098	0.005	0.1		98.4	85 - 115	
		Uranium	0.102	0.001	0.1		102	85 - 115	
		Vanadium	0.10	0.02	0.1		99.3	85 - 115	

Test: **Fluoride by SM 4500**

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

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/08/11 14:00	Fluoride	ND	0.1					

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	02/08/11 22:57	Fluoride	ND	0.1					

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

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/08/11 13:51	Fluoride	2.8	0.1	2.82		98.9	86.1 - 114	

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	02/08/11 22:48	Fluoride	2.8	0.1	2.82		99.3	86.1 - 114	

- Qualifiers:**
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 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1102089
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102089002
 (Replaces S1102089001)

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

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

Sample ID	RunNo: 67480	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-040	02/16/11 21:11	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

Sample ID	RunNo: 67562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-047	02/18/11 10:06	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 67480	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-040	02/16/11 21:11	Gross Alpha (Dissolved)	73	2	69		106	72.6 - 137	
		Gross Beta (Dissolved)	128	3	130		99.0	72.6 - 137	

Sample ID	RunNo: 67562	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-047	02/18/11 10:06	Gross Alpha (Dissolved)	76	2	69		110	72.6 - 137	
		Gross Beta (Dissolved)	129	3	130		99.6	72.6 - 137	

Test: **Anions by ION Chromatography**

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

Sample ID	RunNo: 67214	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK	02/08/11 0:00	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 67214	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	02/08/11 12:40	Chloride	29	1	30		96.4	90 - 110	
		Sulfate	141	1	150		94.0	90 - 110	

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

Sample ID	RunNo: 67214	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102089-001B	02/09/11 1:01	Chloride	5	1	5	0.261		20	
		Sulfate	835	1	832	0.401		20	

Qualifiers:

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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: S1102089
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102089002
 (Replaces S1102089001)

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

Sample ID	RunNo: 67289	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	02/10/11 9:56	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 67379	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	02/14/11 11:33	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 67289	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	02/10/11 10:00	Calcium	42	1	40		103	85 - 115	
		Magnesium	40	1	40		98.4	85 - 115	
		Potassium	41	1	40		101	85 - 115	
		Sodium	39	1	40		97.9	85 - 115	

Sample ID	RunNo: 67379	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV 3	02/14/11 11:38	Calcium	41	1	40		104	85 - 115	
		Magnesium	40	1	40		101	85 - 115	
		Potassium	41	1	40		103	85 - 115	
		Sodium	39	1	40		96.7	85 - 115	

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

Sample ID	RunNo: 67204	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Blank	02/08/11 14:00	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 67204	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	02/08/11 14:02	Nitrogen, Ammonia (As N)	16.1	0.1	16		100	90 - 110	

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

Sample ID	RunNo: 67204	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102089-001C	02/08/11 15:34	Nitrogen, Ammonia (As N)	0.4	0.1	0.4	5.27		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: S1102089
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102089002
 (Replaces S1102089001)

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

Sample ID	RunNo: 67268	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Baseline	02/10/11 10:46	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 67268	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	02/10/11 10:42	Nitrogen, Nitrate-Nitrite (as N)	29.9	0.1	28.7		104	90 - 110	

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

Sample ID	RunNo: 67268	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
s1102089-001c	02/10/11 13:01	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND				

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

Sample ID	RunNo: 67492	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67492	02/17/11 13:18	Lead 210 (Dissolved)	ND	1					

Sample ID	RunNo: 67492	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-041	02/17/11 13:18	Lead 210 (Suspended)	ND	1					

Sample ID	RunNo: 68240	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68240	02/15/11 16:24	Polonium 210 (Dissolved)	ND	1					

Sample ID	RunNo: 68240	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68240	02/15/11 16:24	Polonium 210 (Suspended)	ND	1					

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

Sample ID	RunNo: 67492	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R67492	02/17/11 13:18	Lead 210 (Dissolved)	15	1	13.2		113	50 - 150	
		Lead 210 (Suspended)	15	1	13.2		113	50 - 150	

Sample ID	RunNo: 68240	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R68240	02/15/11 16:24	Polonium 210 (Dissolved)	9	1	7.83		112	50 - 150	
		Polonium 210 (Suspended)	9	1	7.83		112	50 - 150	

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: S1102089
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102089002
 (Replaces S1102089001)

Test: **Radium 228**Sample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 67412	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67412	02/14/11 18:48	Radium 228 (Dissolved)	ND	1					

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

Sample ID	RunNo: 67412	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R67412	02/14/11 18:48	Radium 228 (Dissolved)	15	1	14		106	63.8 - 119	

Sample ID	RunNo: 67412	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CHEMICAL YIELD	02/14/11 18:48	Radium 228 (Dissolved)	13	1	14		93.5	63.8 - 119	

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

Sample ID	RunNo: 67427	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67427	02/15/11 10:02	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 67427	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67427	02/15/11 10:02	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 67427	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R67427	02/15/11 10:02	Radium 226 (Dissolved)	5.3	0.2	5		106	69.3 - 130	
		Radium 226 (Suspended)	5.3	0.2	5		106	69.3 - 130	

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

Sample ID	RunNo: 67427	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102089-001FDUP	02/15/11 10:02	Radium 226 (Dissolved)	1.7	0.2	1.6	7.54		20	

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

Sample ID	RunNo: 67520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67520	02/16/11 14:14	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 67520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67520	02/16/11 14:14	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 67520	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R67520	02/16/11 14:14	Thorium 230 (Dissolved)	12	0.2	12		98.7	50 - 150	
		Thorium 230 (Suspended)	12	0.2	12		98.7	50 - 150	

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: S1102089
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102089002
(Replaces S1102089001)

Test: **Radon 222 by SM7500-RN**

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

Sample ID	RunNo: 67916	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R67916	02/08/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 67916	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R67916	02/08/11 0:00	Radon-222	24200	100	22500		108	75 - 725	L

Test: **Silica as SiO2**

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

Sample ID	RunNo: 67292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICB	02/10/11 9:56	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 67292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ICV Q	02/10/11 9:58	Silica as SiO2	2.2	0.1	2.14		100	85 - 115	

Test: **Solids By SM 2540**

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

Sample ID	RunNo: 67327	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	02/08/11 15:00	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 67327	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Air	02/08/11 15:05	Total Dissolved Solids (180)	ND	10					

Sample ID	RunNo: 67327	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	02/08/11 15:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 67327	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Control	02/08/11 15:15	Total Dissolved Solids (180)	220	10	226		97.3	90 - 110	

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

Sample ID	RunNo: 67327	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102089-001B	02/08/11 18:25	Total Dissolved Solids (180)	1480	10	1450	1.65		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: S1102089
Project: Reno Creek Project

Date: 4/8/2011
Report ID: S1102089002
(Replaces S1102089001)

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

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

Sample ID	RunNo: 67346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 2/8 TOT -4883	02/11/11 14:27	Iron	ND	0.05					
		Manganese	ND	0.02					

Sample ID	RunNo: 67346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 2/10 TOT -4893	02/11/11 14:34	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 67346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 2/8 TOT -4883	02/11/11 14:29	Iron	0.49	0.05	0.5		96.8	85 - 115	
		Manganese	0.19	0.02	0.2		94.4	85 - 115	

Sample ID	RunNo: 67346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 2/10 TOT -4893	02/11/11 14:36	Iron	0.49	0.05	0.5		96.9	85 - 115	
		Manganese	0.19	0.02	0.2		94.7	85 - 115	

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

Sample ID	RunNo: 67346	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102089-001E	02/11/11 14:48	Iron	3.33	0.05	3.01	10.5		20	
		Manganese	0.26	0.01	0.23	9.91		20	

Test: **Suspended Natural Uranium**

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

Sample ID	RunNo: 67341	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	02/11/11 13:33	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 67341	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	02/11/11 13:40	Uranium Suspended	0.0968	0.0003	0.1		96.8	90 - 110	

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

Sample ID	RunNo: 67341	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1102089-001Gs	02/11/11 15:28	Uranium Suspended	1.01	0.0003	1.1	0.0032	91.1	70 - 130	

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

Sample ID	RunNo: 67341	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1102089-001G	02/11/11 15:24	Uranium Suspended	0.0033	0.0003	0.0032	2.17		0	

- 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: S1102089
Project: Reno Creek Project

Date: 4/8/2011

Report ID: S1102089002
(Replaces S1102089001)

Test: **pH Water**

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

Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	02/08/11 13:51	pH	10.7	0.1	10.7		100	94.8 - 105	
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Sample ID	RunNo: 67212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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ATQC	02/08/11 22:48	pH	10.9	0.1	10.7		102	94.8 - 105	
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- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits



Inter-Mountain Labs
 Sheridan, WY and Gillette, WY
 1673 Terra Ave
 Sheridan, WY 82801
 (307) 672-8945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08005

- CHAIN OF CUSTODY RECORD -

Client Name: **AUCLLC** Report Address: **peavendor@auc-llc.com; tnickerson@treccorp.com; jshriver@treccorp.com**

Project Identification: **Reno Creek Project** Contact Name: **Traci Nickerson** Email: **tnickerson@treccorp.com** Phone: **307-265-0696** Purchase Order #: **Quote #**

Sampler (Signature/Printed): **Traci Nickerson** Telephone #: **307-265-0696**

Invoice Address: **AUCLLC**
951 W. 2nd St. Ste 395
Casper WY 82401

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	S1102089	2/14	10:45	TM6-00110807	GW	13	X Groundwater
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

Relinquished By (Signature/Printed)

Received By (Signature/Printed)

DATE TIME

LAB COMMENTS: **010c**
Traci Nickerson 2/14 12:30
Adam Silberbauer 2/14 10:15
Adam Silberbauer 2/14 10:15

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? Y / N
 Sample Disposal: Lab Client

ADDITIONAL REMARKS