



Friday, September 09, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108168

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples SM5-004-110809 on August 9, 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: 9/9/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1108168

CASE NARRATIVE
Report ID: S1108168001

Sample SM5-004-110809 was received on August 9, 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

S1108168-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R73912 - General Parameters/Radon-222 - Analyzed by a contract laboratory
MB-R73912 - 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
ProjectName: Reno Creek Project
Lab ID: S1108168-001
ClientSample ID: SM5-004-110809
COC: RC 08343

Date Reported 9/9/2011
Report ID S1108168001
WorkOrder: S1108168
CollectionDate: 8/9/2011 1:33:00 PM
DateReceived: 8/9/2011 4:44:00 PM
FieldSampler: RM
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include pH Reading, Conductivity Reading, Turbidity Reading, Dissolved Oxygen Reading, Temperature Reading, Oxygen Reduction Potential Reading, Purge Rate Reading, and Water Level Reading.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: * Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

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



Sample Analysis Report

Company: AUC LLC
 1536 Cole Blvd
 Lakewood, CO 80401

ProjectName: Reno Creek Project
Lab ID: S1108168-001
ClientSample ID: SM5-004-110809
COC: RC 08343

Date Reported: 9/9/2011
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WorkOrder: S1108168
CollectionDate: 8/9/2011 1:33:00 PM
DateReceived: 8/9/2011 4:44:00 PM
FieldSampler: RM
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	461	mg/L		5	SM 2320B	8/10/2011 4:51:10 PM	AMB
Alkalinity, Bicarbonate as HCO3	562	mg/L		5	SM 2320B	8/10/2011 4:51:10 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	8/10/2011 4:51:10 PM	AMB
Chloride	8	mg/L		1	EPA 300.0	8/11/2011 9:20:00 PM	ARF
Fluoride	ND	mg/L		0.1	SM 4500FC	8/10/2011 4:51:10 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	8/17/2011 2:29:00 PM	MEL
Sulfate	1640	mg/L		1	EPA 300.0	8/11/2011 9:20:00 PM	ARF
Calcium	444	mg/L		1	EPA 200.7	8/11/2011 4:51:23 PM	DG
Magnesium	125	mg/L		1	EPA 200.7	8/11/2011 4:51:23 PM	DG
Potassium	14	mg/L		1	EPA 200.7	8/11/2011 4:51:23 PM	DG
Sodium	207	mg/L		1	EPA 200.7	8/11/2011 4:51:23 PM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	8/16/2011 5:14:00 PM	MEL
Silica as SiO2	10	mg/L		1	EPA 200.7	8/11/2011 4:51:23 PM	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	8/10/2011 4:51:10 PM	AMB
Electrical Conductivity	3240	µmhos/cm		5	SM 2510B	8/10/2011 4:51:10 PM	AMB
Total Dissolved Solids (180)	3060	mg/L		10	SM 2540	8/12/2011 9:30:00 AM	JF
Data Quality							
Cation Sum	41.82	meq/L		0.01	SM 1030E	8/18/2011 10:28:32 AM	LJK
Anion Sum	43.61	meq/L		0.01	SM 1030E	8/18/2011 10:28:32 AM	LJK
Cation-Anion Balance (± 5%)	2.09	%		0.01	SM 1030E	8/18/2011 10:28:32 AM	LJK
Solids, Total Dissolved (Calc)	2730	mg/L		10	SM 1030E	8/18/2011 10:28:32 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.12	dec. %		0.01	Calculation	8/18/2011 10:40:07 AM	LJK

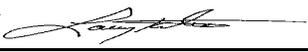
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Reviewed by: 
 Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1108168-001
ClientSample ID: SM5-004-110809
COC: RC 08343

Date Reported 9/9/2011
Report ID S1108168001
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DateReceived: 8/9/2011 4:44:00 PM
FieldSampler: RM
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



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1536 Cole Blvd
Lakewood, CO 80401
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Matrix: Water

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

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

Alkalinity

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/10/11 16:21	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/10/11 16:11	Alkalinity, Total (As CaCO3)	591	5	601		98.4	90 - 110	

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108187-004AD	08/10/11 19:48	Alkalinity, Bicarbonate as HCO3	1380	5	1380	0.0773		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	1130	5	1130	0.0773		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/10/11 16:21	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/10/11 16:11	Electrical Conductivity	1100	5	1120		97.7	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 73237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108187-004AD	08/10/11 19:48	Electrical Conductivity	4210	5	4210	0		20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 73318	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	08/12/11 10:20	Mercury	ND	0.001					

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

Sample ID	RunNo: 73318	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/12/11 10:18	Mercury	0.002	0.001	0.002		95.4	85 - 115	

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

Sample ID	RunNo: 73318	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108166-001D	08/12/11 10:25	Mercury	0.002	0.001	0.00244	ND	84.3	70 - 130	

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

Sample ID	RunNo: 73318	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108166-001D	08/12/11 10:27	Mercury	0.002	0.001	0.002	5.44	79.5	20	

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

Sample ID	RunNo: 73318	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108166-001D	08/12/11 10:23	Mercury	ND	0.001	ND			20	

- Qualifiers:**
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 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 73292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/11/11 14:58	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: 73292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/11/11 15:00	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		102	85 - 115	
		Chromium	1.03	0.01	1		103	85 - 115	
		Iron	1.03	0.05	1		103	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.02	0.01	1		102	85 - 115	
		Zinc	0.99	0.01	1		99.4	85 - 115	

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

Sample ID	RunNo: 73292	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108187-003CS	08/11/11 17:35	Aluminum	0.5	0.1	0.5	ND	108	70 - 130	
		Boron	0.6	0.1	0.5	0.1	100	70 - 130	
		Chromium	0.52	0.01	0.5	ND	104	70 - 130	
		Iron	1.35	0.05	0.5	0.99	73.9	70 - 130	
		Manganese	0.55	0.02	0.5	0.04	102	70 - 130	
		Nickel	0.51	0.01	0.5	ND	102	70 - 130	
		Zinc	0.49	0.01	0.5	ND	97.7	70 - 130	

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

Sample ID	RunNo: 73292	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108187-003CSD	08/11/11 17:37	Aluminum	0.6	0.1	0.5	6.82	116	20	
		Boron	0.7	0.1	0.6	7.56	110	20	
		Chromium	0.56	0.01	0.52	7.52	112	20	
		Iron	1.39	0.05	1.35	2.29	80.1	20	
		Manganese	0.58	0.02	0.55	6.76	109	20	
		Nickel	0.55	0.01	0.51	7.28	110	20	
		Zinc	0.53	0.01	0.49	7.73	105	20	

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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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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

Sample ID	RunNo: 73292	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108187-002CD	08/11/11 17:30	Aluminum	ND	0.1	ND			20	
		Boron	0.7	0.1	0.7	0.569		20	
		Chromium	ND	0.01	ND			20	
		Iron	2.27	0.05	2.31	1.79		20	
		Manganese	3.05	0.02	3.10	1.73		20	
		Nickel	0.01	0.01	0.01	8.85		20	
		Zinc	ND	0.01	ND			20	

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

Sample ID	RunNo: 73231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/10/11 13:31	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: 73231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/10/11 13:27	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		94.4	85 - 115	
		Cadmium	0.100	0.002	0.1		100	85 - 115	
		Copper	0.10	0.01	0.1		99.2	85 - 115	
		Lead	0.10	0.02	0.1		100	85 - 115	
		Molybdenum	0.10	0.02	0.1		100	85 - 115	
		Selenium	0.104	0.005	0.1		104	85 - 115	
		Uranium	0.101	0.001	0.1		101	85 - 115	
		Vanadium	0.10	0.02	0.1		104	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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 73231	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108187-001CS	08/10/11 14:18	Arsenic	1.15	0.005	1.1	ND	104	70 - 130	
		Barium	1.1	0.5	1.1	ND	99.3	70 - 130	
		Cadmium	1.09	0.002	1.1	ND	99.1	70 - 130	
		Copper	1.04	0.01	1.1	ND	94.0	70 - 130	
		Lead	1.05	0.02	1.1	ND	95.0	70 - 130	
		Molybdenum	1.22	0.02	1.1	0.07	104	70 - 130	
		Selenium	1.18	0.005	1.1	ND	107	70 - 130	
		Uranium	1.04	0.001	1.1	0.003	94.0	70 - 130	
		Vanadium	1.12	0.02	1.1	ND	102	70 - 130	

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

Sample ID	RunNo: 73231	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108187-001CMSD	08/10/11 14:22	Arsenic	1.13	0.005	1.15	1.71	102	20	
		Barium	1.1	0.5	1.1	0.727	100	20	
		Cadmium	1.10	0.002	1.09	1.12	100	20	
		Copper	1.05	0.01	1.04	0.763	94.7	20	
		Lead	1.02	0.02	1.05	2.35	92.8	20	
		Molybdenum	1.20	0.02	1.22	0.992	103	20	
		Selenium	1.16	0.005	1.18	1.87	105	20	
		Uranium	1.05	0.001	1.04	0.814	94.8	20	
		Vanadium	1.13	0.02	1.12	1.15	103	20	

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

Sample ID	RunNo: 73231	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108187-001CD	08/10/11 14:14	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	0.07	0.02	0.07	0.986		20	
		Selenium	ND	0.005	ND			20	
		Uranium	0.003	0.001	0.003	2.11		20	
		Vanadium	ND	0.02	ND			20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

Fluoride by SM 4500

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/10/11 16:21	Fluoride	ND	0.1					

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/10/11 16:11	Fluoride	2.7	0.1	2.96		92.3	90 - 110	

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108187-006ASPK	08/10/11 20:17	Fluoride	3.6	0.1	2.5	1.1	99.2	80 - 120	

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108187-004AD	08/10/11 19:48	Fluoride	0.2	0.1	0.2	3.03		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 73719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-228	08/17/11 20:44	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 73719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-228	08/17/11 20:44	Gross Alpha (Dissolved)	86	2	73.6		116	83 - 133	
		Gross Beta (Dissolved)	134	3	126		107	88 - 115	

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

Sample ID	RunNo: 73719	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108194-001FMS	08/23/11 9:37	Gross Alpha (Dissolved)	68	2	73.6	ND	91.7	48 - 153	
		Gross Beta (Dissolved)	141	3	126	ND	112	60 - 140	

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

Sample ID	RunNo: 73719	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106511-003GDUP	08/17/11 20:44	Gross Alpha (Dissolved)	2260	2	2340	3.32		20	
		Gross Beta (Dissolved)	358	4	346	3.50		20	

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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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

Anions by ION Chromatography

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

Sample ID	RunNo: 73316	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/11/11 9:43	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 73316	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/11/11 9:56	Chloride	31	1	30		103	90 - 110	
		Sulfate	146	1	150		97.2	90 - 110	

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

Sample ID	RunNo: 73316	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108187-004ASPK	08/11/11 22:54	Chloride	119	1	80	42	96.1	80 - 120	
		Sulfate	2490	1	640	1790	109	80 - 120	

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

Sample ID	RunNo: 73316	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108187-004AD	08/11/11 22:40	Chloride	43	1	42	3.54		20	
		Sulfate	1810	1	1790	0.816		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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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

Sample ID	RunNo: 73291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/11/11 14:58	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 73291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/11/11 15:02	Calcium	39	1	40		97.2	85 - 115	
		Magnesium	41	1	40		103	85 - 115	
		Potassium	39	1	40		98.5	85 - 115	
		Sodium	39	1	40		97.1	85 - 115	

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

Sample ID	RunNo: 73291	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108199-002AS	08/11/11 18:05	Calcium	61	1	25	37	95.9	70 - 130	
		Magnesium	39	1	25	10	115	70 - 130	
		Potassium	37	1	25	9	112	70 - 130	
		Sodium	32	1	25	2	118	70 - 130	

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

Sample ID	RunNo: 73291	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108199-002ASD	08/11/11 18:07	Calcium	63	1	61	3.61	105	20	
		Magnesium	42	1	39	7.86	127	20	
		Potassium	39	1	37	6.65	121	20	
		Sodium	34	1	32	7.80	128	20	

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

Sample ID	RunNo: 73291	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108199-001AD	08/11/11 18:00	Calcium	6	1	7	1.56		20	
		Magnesium	2	1	2	0.963		20	
		Potassium	5	1	5	1.14		20	
		Sodium	12	1	12	2.82		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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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
S1108192-001C	08/16/11 17:06	Nitrogen, Ammonia (As N)	10.6	0.1	10	ND	106	80 - 120	

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

Sample ID	RunNo: 73494	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108192-001C	08/16/11 17:05	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
S1108181-005C	08/17/11 11:36	Nitrogen, Nitrate-Nitrite (as N)	10.1	0.05	10	ND	101	80 - 120	

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

Sample ID	RunNo: 73520	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108181-005C	08/17/11 11:35	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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-228	08/30/11 18:27	Lead 210 (Dissolved)	ND	1					
MB11-228	08/30/11 14:43	Polonium 210 (Dissolved)	ND	1					
MB11-230	08/31/11 15:25	Polonium 210 (Suspended)	ND	1					
MB11-230	09/01/11 8:52	Lead 210 (Suspended)	ND	1					

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-228	08/30/11 18:27	Lead 210 (Dissolved)	15	1	13		112	67.6 - 131	
LCS11-228	08/30/11 14:43	Polonium 210 (Dissolved)	13	1	13		100	35.1 - 175	
LCS11-230 PO	08/31/11 15:25	Polonium 210 (Suspended)	4	1	2.99		128	48.6 - 156	
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:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108111-001EMS	08/30/11 18:27	Lead 210 (Dissolved)	15	1	13	2	103	66 - 133	
S1108111-001EMS	08/30/11 14:43	Polonium 210 (Dissolved)	2	1	13	ND	18.0	20.9 - 160	S
S1108111-001EMS	08/31/11 15:25	Polonium 210 (Suspended)	15	1	13	ND	115	28 - 173	
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	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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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: 74212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-241 09/01/11 15:37 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 74212	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-241 09/01/11 15:37 Radium 228 (Dissolved) 11 1 10.1 109 74.9 - 122

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

Sample ID	RunNo: 74212	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108535-001FDUP 09/01/11 15:37 Radium 228 (Dissolved) 1 1 2 9.94 20

- Qualifiers:**
- B Analyte detected in the associated Method Blank
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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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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: 73788	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-228	08/22/11 12:18	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: 73788	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-228	08/22/11 12:18	Radium 226 (Dissolved)	4.7	0.2	5		94.2	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: 73788	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108111-002EMS	08/22/11 12:18	Radium 226 (Dissolved)	4.4	0.2	5	ND	87.7	41.6 - 146	

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

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	

Sample ID	RunNo: 73788	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108191-001FDUP	08/22/11 12:18	Radium 226 (Dissolved)	14.7 ± 0.5	0.2	14.8	0.741		20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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: 74323	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-243	09/07/11 13:11	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: 74323	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-243	09/07/11 13:11	Thorium 230 (Dissolved)	14	0.2	12		111	67.1 - 134	
		Thorium 230 (Suspended)	14	0.2	12		111	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: 74323	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108535-005FDUP	09/08/11 14:43	Thorium 230 (Suspended)	ND	0.2	ND			20	

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

Sample ID	RunNo: 73912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73912	08/10/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 73912	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73912	08/10/11 0:00	Radon-222	23400	100	22500		104	75 - 125	L

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

Sample ID	RunNo: 73912	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108168-001A	08/11/11 0:00	Radon-222	130	50	140	5.76		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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

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

Sample ID	RunNo: 73293	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/11/11 14:58	Silica as SiO ₂	ND	0.1					

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

Sample ID	RunNo: 73293	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/11/11 15:00	Silica as SiO ₂	2.1	0.1	2.14		96.9	85 - 115	

Solids By SM 2540Sample 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	

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

Sample ID	RunNo: 73412	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5380	08/15/11 16:17	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 73412	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5380	08/15/11 16:20	Iron	0.49	0.05	0.5		98.7	85 - 115	
		Manganese	0.20	0.02	0.2		98.8	85 - 115	

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

Sample ID	RunNo: 73412	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108167-001ES	08/15/11 14:58	Iron	0.87	0.05	0.5	0.36	100	70 - 130	
		Manganese	0.53	0.02	0.2	0.32	102	70 - 130	

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

Sample ID	RunNo: 73412	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108166-001ED	08/15/11 14:54	Iron	0.09	0.05	0.08	4.55		20	
		Manganese	0.17	0.02	0.17	1.27		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: S1108168
Project: Reno Creek Project

Date: 9/9/2011
Report ID: S1108168001

Suspended Natural Uranium

Sample 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	

pH Water

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	08/10/11 16:11	pH	8.7	0.1	8.48		102	90 - 110	

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

Sample ID	RunNo: 73237	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108187-004AD	08/10/11 19:48	pH	7.1	0.1	7.1	0.120		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 82901
 (307) 672-8845

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- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Report Address pavendor@auc-llc.com; mickerson@treccorp.com; jshriver@treccorp.com		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>[Signature]</i>		Telephone # 307-265-0696			
Invoice Address AUC LLC 900 DENVER Ct. Suite 150 CASPER WY 82401		Contact Name <i>[Signature]</i>		Email mickerson@treccorp.com		Phone 307-265-0696		Purchase Order #			
Sample Identification 51107168-001		Date Sampled 8-9-11		Time Sampled 5:35 PM		Matrix WT		# of Containers 13			
LAB ID (Lab Use Only)		DATE SAMPLED		TIME SAMPLED		MATRIX IDENTIFICATION		REMARKS GROUNDWATER			
1	51107168-001	8-9-11	5:35 PM	5M5-004-110809	WT	13	X				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
LAB COMMENTS 7.1		Relinquished By (Signature/Printed) <i>[Signature]</i>		DATE 8/9/11		TIME 3:59		Received By (Signature/Printed) <i>[Signature]</i>			
								DATE 8/9/11			
								TIME 10:44			
								DATE 8/10/11			
								TIME 10:49			
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS			
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____		<input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Trip Blank <input type="checkbox"/> Other _____		<input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied		<input checked="" type="checkbox"/> Compliance Monitoring? Program (SDWA, NPDES, ...) PWSID / Permit # _____ Chlorinated? _____ Sample Disposal: Lab _____ Client _____					