



Tuesday, September 13, 2011

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

RE: Reno Creek Project
Orde

r No.: S1108193

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM6-004-110810 on August 10, 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: 9/13/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1108193

CASE NARRATIVE
Report ID: S1108193001

Sample PZM6-004-110810 was received on August 10, 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-R73906 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R73906 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108193-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1108111-001 - Radiochemistry/Polonium 210 (Dissolved) - Spike Recovery outside accepted recovery limits (2)
- S1108192-001 - Cations/Sodium - Spike Recovery outside accepted recovery limits (1)

(1) Spike recovery outside acceptance criteria due to presence of analyte in the sample that greatly exceeded level of spike used. Data approved because all other QC were within acceptance limits.

(2) 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: S1108193-001
ClientSample ID: PZM6-004-110810
COC: RC 08342

Date Reported 9/13/2011
Report ID S1108193001
WorkOrder: S1108193
CollectionDate: 8/10/2011 12:54:00 PM
DateReceived: 8/10/2011 5:07:00 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

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Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	200	mg/L		5	SM 2320B	8/12/2011 3:54:47 PM	AMB
Alkalinity, Bicarbonate as HCO3	223	mg/L		5	SM 2320B	8/12/2011 3:54:47 PM	AMB
Alkalinity, Carbonate as CO3	10	mg/L		5	SM 2320B	8/12/2011 3:54:47 PM	AMB
Chloride	8	mg/L		1	EPA 300.0	8/12/2011 9:26:00 PM	ARF
Fluoride	0.4	mg/L		0.1	SM 4500FC	8/12/2011 3:54:47 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	8/17/2011 2:32:00 PM	MEL
Sulfate	346	mg/L		1	EPA 300.0	8/12/2011 9:26:00 PM	ARF
Calcium	66	mg/L		1	EPA 200.7	8/12/2011 2:13:36 PM	DG
Magnesium	11	mg/L		1	EPA 200.7	8/12/2011 2:13:36 PM	DG
Potassium	7	mg/L		1	EPA 200.7	8/12/2011 2:13:36 PM	DG
Sodium	188	mg/L		1	EPA 200.7	8/12/2011 2:13:36 PM	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	8/16/2011 3:13:00 PM	MEL
Silica as SiO2	13	mg/L		1	EPA 200.7	8/12/2011 2:13:36 PM	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	8/12/2011 3:54:47 PM	AMB
Electrical Conductivity	1220	µmhos/cm		5	SM 2510B	8/12/2011 3:54:47 PM	AMB
Total Dissolved Solids (180)	860	mg/L		10	SM 2540	8/12/2011 9:50:00 AM	JF
Data Quality							
Cation Sum	12.49	meq/L		0.01	SM 1030E	8/18/2011 10:30:03 AM	LJK
Anion Sum	11.43	meq/L		0.01	SM 1030E	8/18/2011 10:30:03 AM	LJK
Cation-Anion Balance (± 5%)	4.43	%		0.01	SM 1030E	8/18/2011 10:30:03 AM	LJK
Solids, Total Dissolved (Calc)	760	mg/L		10	SM 1030E	8/18/2011 10:30:03 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.13	dec. %		0.01	Calculation	8/18/2011 10:40:50 AM	LJK

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 Lacey Ketron, Water Lab Supervisor



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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).

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Lacey Ketron, Water Lab Supervisor



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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). Total Radon 222 is also listed.

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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
S1108209-002C	08/16/11 10:26	Mercury	0.002	0.001	0.00244	ND	92.5	70 - 130	

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

Sample ID	RunNo: 73449	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108209-002C	08/16/11 10:28	Mercury	0.002	0.001	0.002	1.89	90.8	20	

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

Sample ID	RunNo: 73449	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108209-002C	08/16/11 10:25	Mercury	ND	0.001	ND			20	

- Qualifiers:**
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 - 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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 73346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/12/11 13:11	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: 73346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/12/11 13:13	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		99.2	85 - 115	
		Chromium	1.05	0.01	1		105	85 - 115	
		Iron	1.04	0.05	1		104	85 - 115	
		Manganese	1.03	0.02	1		103	85 - 115	
		Nickel	1.04	0.01	1		104	85 - 115	
		Zinc	1.03	0.01	1		103	85 - 115	

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

Sample ID	RunNo: 73346	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108192-001DS	08/12/11 14:09	Aluminum	0.5	0.1	0.5	ND	103	70 - 130	
		Boron	0.5	0.1	0.5	ND	94.0	70 - 130	
		Chromium	0.48	0.01	0.5	ND	96.7	70 - 130	
		Iron	0.49	0.05	0.5	ND	96.4	70 - 130	
		Manganese	0.89	0.02	0.5	0.47	85.4	70 - 130	
		Nickel	0.48	0.01	0.5	ND	96.5	70 - 130	
		Zinc	0.48	0.01	0.5	ND	96.1	70 - 130	

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

Sample ID	RunNo: 73346	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108192-001DSD	08/12/11 14:11	Aluminum	0.5	0.1	0.5	4.70	108	20	
		Boron	0.6	0.1	0.5	6.05	100	20	
		Chromium	0.51	0.01	0.48	5.69	102	20	
		Iron	0.52	0.05	0.49	5.96	102	20	
		Manganese	0.93	0.02	0.89	3.89	92.3	20	
		Nickel	0.51	0.01	0.48	5.95	102	20	
		Zinc	0.51	0.01	0.48	6.32	102	20	

- Qualifiers:**
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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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 73346	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108191-001DD	08/12/11 14:04	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	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: 73295	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/11/11 12:16	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: 73295	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/11/11 12:12	Arsenic	0.099	0.005	0.1		98.5	85 - 115	
		Barium	ND	0.5	0.1		99.1	85 - 115	
		Cadmium	0.097	0.002	0.1		96.6	85 - 115	
		Copper	0.10	0.01	0.1		96.1	85 - 115	
		Lead	0.10	0.02	0.1		96.9	85 - 115	
		Molybdenum	0.10	0.02	0.1		99.3	85 - 115	
		Selenium	0.103	0.005	0.1		103	85 - 115	
		Uranium	0.094	0.001	0.1		94.1	85 - 115	
		Vanadium	0.10	0.02	0.1		96.7	85 - 115	

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ANALYTICAL QC SUMMARY REPORT

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Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 73295	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108212-002CS	08/11/11 16:35	Arsenic	1.10	0.005	1.1	ND	100	70 - 130	
		Barium	1.1	0.5	1.1	ND	101	70 - 130	
		Cadmium	1.08	0.002	1.1	ND	98.0	70 - 130	
		Copper	1.07	0.01	1.1	ND	97.7	70 - 130	
		Lead	1.01	0.02	1.1	ND	92.0	70 - 130	
		Molybdenum	1.15	0.02	1.1	ND	105	70 - 130	
		Selenium	1.13	0.005	1.1	ND	103	70 - 130	

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

Sample ID	RunNo: 73295	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108212-002CMSD	08/11/11 16:39	Arsenic	1.12	0.005	1.10	1.68	102	20	
		Barium	1.2	0.5	1.1	1.91	103	20	
		Cadmium	1.10	0.002	1.08	2.42	100	20	
		Copper	1.08	0.01	1.07	0.875	98.5	20	
		Lead	1.04	0.02	1.01	3.01	94.8	20	
		Molybdenum	1.17	0.02	1.15	1.85	107	20	
		Selenium	1.16	0.005	1.13	2.13	105	20	

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

Sample ID	RunNo: 73295	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108212-002CD	08/11/11 16:31	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	ND	0.01	ND			20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	

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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: 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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ANALYTICAL QC SUMMARY REPORT

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Date: 9/13/2011
Report ID: S1108193001

Anions by ION Chromatography

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

Sample ID	RunNo: 73356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/12/11 12:03	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 73356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/12/11 12:17	Chloride	29	1	30		97.9	90 - 110	
		Sulfate	143	1	150		95.5	90 - 110	

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

Sample ID	RunNo: 73356	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108194-001ASPK	08/12/11 22:06	Chloride	45	1	30	19	87.9	80 - 120	
		Sulfate	403	1	240	177	94.1	80 - 120	

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

Sample ID	RunNo: 73356	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108194-001AD	08/12/11 21:53	Chloride	18	1	19	4.16		20	
		Sulfate	175	1	177	1.22		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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

Cations by ICP (Method 200.7)

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

Sample ID	RunNo: 73345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/12/11 13:11	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 73345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	08/12/11 13:15	Calcium	39	1	40		98.5	85 - 115	
		Magnesium	41	1	40		103	85 - 115	
		Potassium	40	1	40		99.9	85 - 115	
		Sodium	40	1	40		99.7	85 - 115	

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

Sample ID	RunNo: 73345	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108192-001AS	08/12/11 14:09	Calcium	76	1	25	57	78.0	70 - 130	
		Magnesium	35	1	25	10	101	70 - 130	
		Potassium	36	1	25	6	120	70 - 130	
		Sodium	234	1	25	231	13.6	70 - 130	S

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

Sample ID	RunNo: 73345	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1108192-001ASD	08/12/11 14:11	Calcium	78	1	76	2.00	84.1	20	
		Magnesium	37	1	35	4.44	107	20	
		Potassium	38	1	36	4.08	125	20	
		Sodium	236	1	234	0.846	21.5	20	

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

Sample ID	RunNo: 73345	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108191-001AD	08/12/11 14:04	Calcium	85	1	88	3.40		20	
		Magnesium	7	1	8	3.87		20	
		Potassium	10	1	10	4.05		20	
		Sodium	165	1	164	0.695		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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 73492	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/16/11 14:04	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 73492	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	08/16/11 14:06	Nitrogen, Ammonia (As N)	8.6	0.1	8.93		96.5	90 - 110	

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

Sample ID	RunNo: 73492	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108250-003B	08/16/11 15:08	Nitrogen, Ammonia (As N)	10.9	0.1	10	ND	109	80 - 120	

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

Sample ID	RunNo: 73492	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108250-003B	08/16/11 15:07	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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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: 74481	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-251 09/12/11 17:34 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 74481	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-251 09/12/11 17:34 Radium 228 (Dissolved) 9 1

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

Sample ID	RunNo: 74481	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108194-001FMS 09/12/11 17:34 Radium 228 (Dissolved) 15 1 10 ND 145 48.4 - 167

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

Sample ID	RunNo: 74481	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108192-001FDUP 09/12/11 17:34 Radium 228 (Dissolved) ND 1 ND 20

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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:**
- 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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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: 73906	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73906	08/11/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 73906	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73906	08/11/11 0:00	Radon-222	23300	100	22500		104	75 - 125	L

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

Sample ID	RunNo: 73906	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108193-001A	08/11/11 0:00	Radon-222	1950	50	1960	0.510		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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

Silica as SiO2

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

Sample ID	RunNo: 73347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	08/12/11 13:11	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 73347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	08/12/11 13:13	Silica as SiO2	2.1	0.1	2.14		98.4	85 - 115	

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

Sample ID	RunNo: 73347	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108191-001DD	08/12/11 14:04	Silica as SiO2	8.7	0.1	9.1	3.86		20	

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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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

Sample ID	RunNo: 73463	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5383	08/16/11 15:32	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 73463	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5383	08/16/11 15:35	Iron	0.49	0.05	0.5		97.9	85 - 115	
		Manganese	0.19	0.02	0.2		97.2	85 - 115	

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

Sample ID	RunNo: 73463	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108192-001ES	08/16/11 15:44	Iron	1.10	0.05	0.5	0.68	84.3	70 - 130	
		Manganese	0.70	0.02	0.2	0.54	77.4	70 - 130	

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

Sample ID	RunNo: 73463	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108191-001ED	08/16/11 15:39	Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	ND			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: S1108193
Project: Reno Creek Project

Date: 9/13/2011
Report ID: S1108193001

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



Inter-Mountain Labs
 Sheridan, WY and Gillette, WY
 1673 Terra Ave
 Sheridan, WY 82801
 (307) 672-9945

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- CHAIN OF CUSTODY RECORD -

Client Name: **AUCCLIC** Report Address: **pcavendor@auc-llc.com; mickerson@treecorp.com; jehh@treecorp.com**
 Invoice Address: **AUCCLIC** 900 WENNER Ct, SUITE 150 CASPER WY 82401

Project Identification: **Reno Creek Project** Contact Name: **Trace Mickerson**
 Email: **tmickerson@treecorp.com** Phone: **307-265-0696** Purchase Order #: **Quote #**

Sample (Signature/Printed): **Trace Mickerson** Telephone #: **307-265-0696**

ANALYSES / PARAMETERS
 See Attached Table 1 (4.14, Guide 8, Radon 222)
 See Attached Table 2 (Air Particulate)
 See Attached Table 3 (Vegetation)
 See Attached Table 4 (Sediment)
 See Attached Table 5 (Soil)
 See Attached Table 8 WYPDES Discharge
 See Attached Table 9 (Blanks)

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1	SI108193-001	8-10-11	12:54 PM	PMLE-001-110810	WY	13	GROUNDWATER
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

LAB COMMENTS: Relinquished By (Signature/Printed): **Trace Mickerson** DATE: **8-11-11** TIME: **4:00**
 Received By (Signature/Printed): **Trace Mickerson** DATE: **8/10/11** TIME: **12:07**

SHIPPING INFO: **6.0°C** MATRIX CODES: **Water** WT: **SL** Check desired service: **Standard turnaround**
 Turnaround times: **RUSH - 5 Working Days** URGENT - < 2 Working Days
 Compliance Monitoring? **Y/N** Program (SDWA, NPDES, ...)
 PWSID / Permit # **Y/N** Chlorinated?
 Sample Disposal: Lab **Y/N** Client **Y/N**

ADDITIONAL REMARKS: **GROUNDWATER**