



Friday, October 14, 2011

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

RE: Reno Creek Project
Orde

r No.: S1109091

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM7-002-110906 on September 6, 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: 10/14/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1109091

CASE NARRATIVE
Report ID: S1109091001

Sample PZM7-002-110906 was received on September 6, 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-R74784 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R74784 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1109091-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1109090-001 - Radiochemistry/Radium 226 (Dissolved) - RPD outside accepted recovery limits

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1109091-001
ClientSample ID: PZM7-002-110906
COC: RC 08374

Date Reported: 10/14/2011
Report ID: S1109091001
WorkOrder: S1109091
CollectionDate: 9/6/2011 12:30:00 PM
DateReceived: 9/6/2011 4:37:00 PM
FieldSampler: TN
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

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Lakewood, CO 80401

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CollectionDate: 9/6/2011 12:30:00 PM
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FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	37	mg/L		5	SM 2320B	9/8/2011 5:28:00 PM	AMB
Alkalinity, Bicarbonate as HCO3	39	mg/L		5	SM 2320B	9/8/2011 5:28:00 PM	AMB
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	9/8/2011 5:28:00 PM	AMB
Chloride	2	mg/L		1	EPA 300.0	9/15/2011 4:41:00 AM	ARF
Fluoride	ND	mg/L		0.1	SM 4500FC	9/8/2011 5:28:00 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	9/17/2011 4:15:00 PM	MEL
Sulfate	362	mg/L		1	EPA 300.0	9/13/2011 12:52:00 AM	ARF
Calcium	52	mg/L		1	EPA 200.7	9/14/2011 12:08:31 PM	DG
Magnesium	9	mg/L		1	EPA 200.7	9/14/2011 12:08:31 PM	DG
Potassium	19	mg/L		1	EPA 200.7	9/14/2011 12:08:31 PM	DG
Sodium	126	mg/L		1	EPA 200.7	9/14/2011 12:08:31 PM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	9/16/2011 6:17:00 PM	MEL
Silica as SiO2	10	mg/L		1	EPA 200.7	9/8/2011 2:43:15 PM	DG
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	9/8/2011 5:28:00 PM	AMB
Electrical Conductivity	974	µmhos/cm		5	SM 2510B	9/8/2011 5:28:00 PM	AMB
Total Dissolved Solids (180)	680	mg/L		10	SM 2540	9/8/2011 2:10:00 PM	TH
Data Quality							
Cation Sum	9.31	meq/L		0.01	SM 1030E	9/20/2011 10:37:16 AM	LJK
Anion Sum	8.49	meq/L		0.01	SM 1030E	9/20/2011 10:37:16 AM	LJK
Cation-Anion Balance (± 5%)	4.60	%		0.01	SM 1030E	9/20/2011 10:37:16 AM	LJK
Solids, Total Dissolved (Calc)	600	mg/L		10	SM 1030E	9/20/2011 10:37:16 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.13	dec. %		0.01	Calculation	9/20/2011 10:59:02 AM	LJK

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Lacey Ketron, Water Lab Supervisor



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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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Lacey Ketron, Water Lab Supervisor



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

Alkalinity

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/08/11 13:51	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/08/11 13:42	Alkalinity, Total (As CaCO3)	593	5	601		98.6	90 - 110	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109068-005AD	09/08/11 15:14	Alkalinity, Bicarbonate as HCO3	11	5	11	1.66		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	9	5	9	1.66		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/09/11 1:10	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/09/11 1:00	Electrical Conductivity	1100	5	1120		97.5	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109068-005AD	09/08/11 15:14	Electrical Conductivity	24	5	25	2.03		20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109091
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Date: 10/14/2011
Report ID: S1109091001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 74340	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	09/09/11 10:18	Mercury	ND	0.001					

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

Sample ID	RunNo: 74340	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/09/11 10:17	Mercury	0.002	0.001	0.002		96.3	85 - 115	

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

Sample ID	RunNo: 74340	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109090-001D	09/09/11 10:38	Mercury	0.002	0.001	0.00244	ND	95.3	70 - 130	

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

Sample ID	RunNo: 74340	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109090-001D	09/09/11 10:40	Mercury	0.002	0.001	0.002	1.41	94.0	20	

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

Sample ID	RunNo: 74340	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001D	09/09/11 10:36	Mercury	ND	0.001	ND			20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 74305	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/08/11 10:25	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: 74305	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/08/11 10:27	Aluminum	1.0	0.1	1		99.8	85 - 115	
		Boron	1.0	0.1	1		96.8	85 - 115	
		Chromium	1.00	0.01	1		99.6	85 - 115	
		Iron	0.99	0.05	1		99.2	85 - 115	
		Manganese	1.05	0.02	1		105	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	1.01	0.01	1		101	85 - 115	

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

Sample ID	RunNo: 74305	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109090-001DS	09/08/11 14:31	Aluminum	0.6	0.1	0.5	ND	108	70 - 130	
		Boron	0.5	0.1	0.5	ND	105	70 - 130	
		Chromium	0.55	0.01	0.5	ND	109	70 - 130	
		Iron	0.56	0.05	0.5	ND	105	70 - 130	
		Manganese	0.55	0.02	0.5	ND	109	70 - 130	
		Nickel	0.55	0.01	0.5	ND	109	70 - 130	
		Zinc	0.56	0.01	0.5	0.02	109	70 - 130	

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

Sample ID	RunNo: 74305	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109090-001DSD	09/08/11 14:33	Aluminum	0.6	0.1	0.6	5.14	115	20	
		Boron	0.6	0.1	0.5	9.66	115	20	
		Chromium	0.59	0.01	0.55	8.01	118	20	
		Iron	0.60	0.05	0.56	7.33	113	20	
		Manganese	0.59	0.02	0.55	8.21	118	20	
		Nickel	0.59	0.01	0.55	8.07	118	20	
		Zinc	0.61	0.01	0.56	7.90	118	20	

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ANALYTICAL QC SUMMARY REPORT

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Report ID: S1109091001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 74305	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109072-001BD	09/08/11 14:26	Aluminum	0.2	0.1	0.2	1.03		20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.09	0.05	0.09	1.00		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: 74242	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/07/11 12:07	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: 74242	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/07/11 12:03	Arsenic	0.102	0.005	0.1		102	85 - 115	
		Barium	ND	0.5	0.1		103	85 - 115	
		Cadmium	0.103	0.002	0.1		103	85 - 115	
		Copper	0.10	0.01	0.1		99.2	85 - 115	
		Lead	0.10	0.02	0.1		102	85 - 115	
		Molybdenum	0.10	0.02	0.1		103	85 - 115	
		Selenium	0.102	0.005	0.1		102	85 - 115	
		Uranium	0.101	0.001	0.1		101	85 - 115	
		Vanadium	0.10	0.02	0.1		100	85 - 115	

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Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 74242	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109061-001BS	09/07/11 12:31	Arsenic	1.14	0.005	1.1	ND	103	70 - 130	
		Barium	1.5	0.5	1.1	ND	98.4	70 - 130	
		Cadmium	1.15	0.002	1.1	ND	104	70 - 130	
		Copper	1.05	0.01	1.1	ND	95.1	70 - 130	
		Lead	1.02	0.02	1.1	ND	92.9	70 - 130	
		Molybdenum	1.21	0.02	1.1	ND	109	70 - 130	
		Selenium	1.13	0.005	1.1	ND	103	70 - 130	
		Uranium	1.09	0.001	1.1	ND	99.4	70 - 130	
		Vanadium	1.11	0.02	1.1	ND	100	70 - 130	

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

Sample ID	RunNo: 74242	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109061-001BMSD	09/07/11 12:35	Arsenic	1.14	0.005	1.14	0.278	103	20	
		Barium	1.5	0.5	1.5	0.0623	98.3	20	
		Cadmium	1.14	0.002	1.15	0.126	104	20	
		Copper	1.05	0.01	1.05	0.233	95.4	20	
		Lead	1.02	0.02	1.02	0.579	92.3	20	
		Molybdenum	1.20	0.02	1.21	0.438	109	20	
		Selenium	1.13	0.005	1.13	0.0889	103	20	
		Uranium	1.08	0.001	1.09	0.865	98.5	20	
		Vanadium	1.10	0.02	1.11	0.418	99.7	20	

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

Sample ID	RunNo: 74242	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109061-001BD	09/07/11 12:27	Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	ND	0.01	ND			20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	
		Uranium	ND	0.001	ND			20	
		Vanadium	ND	0.02	ND			20	

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Fluoride by SM 4500

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/08/11 13:51	Fluoride	ND	0.1					

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/08/11 13:42	Fluoride	3.0	0.1	2.96		99.7	90 - 110	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109134-003ASPK	09/08/11 21:13	Fluoride	2.7	0.1	2.5	0.3	96.4	80 - 120	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109113-001ED	09/08/11 18:48	Fluoride	0.9	0.1	0.9	0.479		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-273	10/03/11 15:14	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-273	10/03/11 15:14	Gross Alpha (Dissolved)	83	2	73.6		112	83 - 133	
		Gross Beta (Dissolved)	135	3	126		107	88 - 115	

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108612-001FMS	10/03/11 15:14	Gross Alpha (Dissolved)	210	2	147	83	86.6	48 - 153	
		Gross Beta (Dissolved)	302	4	252	38	105	60 - 140	

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

Sample ID	RunNo: 75326	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109004-002GDUP	10/03/11 15:14	Gross Alpha (Dissolved)	9	2	10	14.4		20	
		Gross Beta (Dissolved)	11	3	9	19.5		20	

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Report ID: S1109091001

Anions by ION ChromatographySample Type **MBLK** Units: mg/L

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/12/11 10:36	Chloride	ND	1					
		Sulfate	ND	1					

Sample ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/14/11 10:50	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/12/11 10:49	Chloride	31	1	30		102	90 - 110	
		Sulfate	146	1	150		97.7	90 - 110	

Sample ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	09/14/11 11:03	Chloride	31	1	30		102	90 - 110	
		Sulfate	144	1	150		96.3	90 - 110	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1108615-001ASPK	09/13/11 2:51	Chloride	6	1	5	ND	118	80 - 120	
		Sulfate	61	1	40	24	92.6	80 - 120	

Sample ID	RunNo: 74576	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109156-001ASPK	09/15/11 5:19	Chloride	111	1	130	5	81.5	80 - 120	
		Sulfate	1380	1	1040	473	86.9	80 - 120	

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

Sample ID	RunNo: 74469	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108615-001AD	09/13/11 2:38	Chloride	ND	1	ND			20	
		Sulfate	24	1	24	0.381		20	

Sample ID	RunNo: 74576	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109156-001A	09/15/11 5:06	Chloride	5	1	5	1.32		20	
		Sulfate	476	1	473	0.652		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: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

Cations by ICP (Method 200.7)

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/14/11 10:10	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	09/14/11 10:15	Calcium	39	1	40		97.0	85 - 115	
		Magnesium	41	1	40		102	85 - 115	
		Potassium	39	1	40		96.5	85 - 115	
		Sodium	37	1	40		93.4	85 - 115	

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109229-006AS	09/14/11 14:14	Calcium	55	1	50	3	104	70 - 130	
		Magnesium	57	1	50	ND	112	70 - 130	
		Potassium	53	1	50	2	102	70 - 130	
		Sodium	53	1	50	1	103	70 - 130	

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109229-006ASD	09/14/11 14:16	Calcium	55	1	55	1.42	105	20	
		Magnesium	57	1	57	1.23	113	20	
		Potassium	53	1	53	1.16	103	20	
		Sodium	53	1	53	1.22	104	20	

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

Sample ID	RunNo: 74567	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109229-005AD	09/14/11 14:09	Calcium	1	1	1	0.520		20	
		Magnesium	ND	1	ND			20	
		Potassium	1	1	1	0.650		20	
		Sodium	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: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	09/16/11 17:34	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/16/11 17:36	Nitrogen, Ammonia (As N)	10.2	0.1	10		102	90 - 110	

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109122-001C	09/16/11 18:21	Nitrogen, Ammonia (As N)	10.8	0.1	10	1.1	97.1	80 - 120	

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

Sample ID	RunNo: 74709	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109122-001C	09/16/11 18:20	Nitrogen, Ammonia (As N)	1.2	0.1	1.1	11.4		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/17/11 15:48	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	09/17/11 15:50	Nitrogen, Nitrate-Nitrite (as N)	2.4	0.1	2.31		104	90 - 110	

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109157-001C	09/17/11 16:23	Nitrogen, Nitrate-Nitrite (as N)	9.8	0.1	10	ND	98.2	80 - 120	

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

Sample ID	RunNo: 74701	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109157-001C	09/17/11 16:22	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	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: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

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

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 15:29	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/10/11 12:50	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/11/11 16:16	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-272	10/11/11 12:40	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/10/11 15:29	Lead 210 (Dissolved)	15	1	12.9		113	67.6 - 131	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272 PO	10/10/11 12:50	Polonium 210 (Dissolved)	3	1	2.42		119	35.1 - 175	
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/11/11 16:16	Lead 210 (Suspended)	14	1	12.9		108	60.3 - 141	
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-272	10/11/11 12:40	Polonium 210 (Suspended)	12	1	12.9		93.2	48.6 - 156	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 75583	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 15:29	Lead 210 (Dissolved)	20	1	12.9	6	103	66 - 133	
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Sample ID	RunNo: 75584	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/10/11 12:50	Polonium 210 (Dissolved)	9	1	12.9	ND	71.4	20.9 - 160	
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Sample ID	RunNo: 75696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/11/11 16:16	Lead 210 (Suspended)	22	1	12.9	8	109	62.4 - 132	
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Sample ID	RunNo: 75697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108611-001FMS	10/11/11 12:40	Polonium 210 (Suspended)	14	1	12.9	3	82.1	28 - 173	
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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: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

Lead 210 and Polonium 210

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 15:29 Lead 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108582-001FDUP 10/10/11 12:50 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/12/11 9:01 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109170-002EDUP 10/11/11 14:56 Polonium 210 (Suspended) ND 1 ND 20

Radium 228

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-280 10/12/11 17:30 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-280 10/12/11 17:30 Radium 228 (Dissolved) 9 1 9.92 95.5 74.9 - 122

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

Sample ID	RunNo:	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1109156-001FMS 10/12/11 17:30 Radium 228 (Dissolved) 9 1 9.92 ND 86.3 48.4 - 167

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

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1109157-001FDUP 10/12/11 17:30 Radium 228 (Dissolved) ND 1 1 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: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

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

Sample ID	RunNo: 75087	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-263	09/26/11 11:49	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-271	10/03/11 18:27	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75087	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-263	09/26/11 11:49	Radium 226 (Dissolved)	5.0	0.2	5.06		98.2	62.5 - 125	

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-271	10/03/11 18:27	Radium 226 (Suspended)	4.8	0.2	5.06		93.9	56.4 - 132	

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

Sample ID	RunNo: 75347	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109169-002EMS	10/03/11 18:27	Radium 226 (Suspended)	4.8	0.2	5.06	ND	95.5	51.4 - 135	

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

Sample ID	RunNo: 75087	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001FDUP	09/26/11 14:12	Radium 226 (Dissolved)	0.2	0.2	0.4	30.8		20	R

Sample ID	RunNo: 75347	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109162-001EDUP	10/03/11 18:27	Radium 226 (Suspended)	0.8	0.2	0.7	19.8		20	

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-277	10/10/11 9:11	Thorium 230 (Dissolved)	ND	0.2					
		Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-277	10/10/11 9:11	Thorium 230 (Dissolved)	12	0.2	12		98.8	67.1 - 134	
		Thorium 230 (Suspended)	12	0.2	12		98.8	69.2 - 127	

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

Sample ID	RunNo: 75688	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001FDUP	10/11/11 9:06	Thorium 230 (Suspended)	ND	0.2	ND			20	

Qualifiers:

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

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

Sample ID	RunNo: 74784	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R74784	09/07/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 74784	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R74784	09/07/11 0:00	Radon-222	21800	100	22500		96.9	75 - 125	L

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

Sample ID	RunNo: 74784	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109091-001A	09/07/11 0:00	Radon-222	125000	50	128000	2.34		20	L

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

Sample ID	RunNo: 74307	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	09/08/11 10:25	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 74307	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	09/08/11 10:27	Silica as SiO2	2.2	0.1	2.14		102	85 - 115	

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

Sample ID	RunNo: 74459	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	09/08/11 13:40	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 74459	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	09/08/11 13:45	Total Dissolved Solids (180)	220	10	226		97.3	90 - 110	

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

Sample ID	RunNo: 74459	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109119-006B	09/08/11 15:15	Total Dissolved Solids (180)	3790	10	4030	5.96		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: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5450	09/12/11 17:16	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5450	09/12/11 17:19	Iron	0.50	0.05	0.5		99.4	85 - 115	
		Manganese	0.20	0.02	0.2		101	85 - 115	

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109091-001ES	09/12/11 16:05	Iron	0.67	0.05	0.5	0.19	97.5	70 - 130	
		Manganese	0.21	0.02	0.2	ND	102	70 - 130	

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

Sample ID	RunNo: 74452	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001ED	09/12/11 16:01	Iron	0.10	0.05	0.11	6.18		20	
		Manganese	ND	0.02	ND			20	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	09/20/11 14:11	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	09/20/11 14:07	Uranium Suspended	0.0981	0.0003	0.1		98.1	85 - 115	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1109090-001FS	09/20/11 18:35	Uranium Suspended	1.08	0.0003	1.1	ND	98.3	70 - 130	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1109090-001FMSD	09/20/11 18:39	Uranium Suspended	1.07	0.0003	1.08	0.655	97.6	20	

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

Sample ID	RunNo: 74839	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109090-001FD	09/20/11 18:31	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: S1109091
Project: Reno Creek Project

Date: 10/14/2011
Report ID: S1109091001

pH Water

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	09/08/11 13:42	pH	8.6	0.1	8.48		101	90 - 110	

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

Sample ID	RunNo: 74304	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1109068-005AD	09/08/11 15:14	pH	7.1	0.1	7.1	0.119		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) 992-8945
 (307) 572-8945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08374

- CHAIN OF CUSTODY RECORD -

Client Name: AUC LLC
 Report Address: peavendor@auc-llc.com; thickerson@treccorp.com; jshriver@treccorp.com
 Invoice Address: AUC LLC
 Project Identification: Reno Creek Project
 Contact Name: Tracy Nickerson
 Email: thickerson@treccorp.com
 Phone: 307-265-0696
 Purchase Order #: [blank]
 Quote #: [blank]
 Sampler (Signature/Printed): Tracy Nickerson
 Telephone #: [blank]

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 WYDES Discharge
 See Attached Table 9 (Blanks)
 REMARKS: Speedwater

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1	51109091	9/6/11	12:30	P2M7-002-110906	W2	13	X
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

LAB COMMENTS: Relinquished By (Signature/Printed): Tracy Nickerson
 DATE: 9/6/11 1530
 Received By (Signature/Printed): [Signature]
 DATE: 9/6/11 1637
 DATE: 9.7.11 10:45

SHIPPING INFO: UPS, Fed Express, US Mail, Hand Carried, Other [checked]
 MATRIX CODES: Water, Soil, Solid, Tip Blank, Other
 TURNAROUND TIMES: Check desired service, Standard turnaround, RUSH - 5 Working Days, URGENT - < 2 Working Days
 RUSH & Urgent Surcharges will be applied

COMPLIANCE INFORMATION: Compliance Monitoring? (Y/N), Program (SDWA, NPDES,...), PWSID / Permit #, Chlorinated?, Sample Disposal: Lab, Client
 ADDITIONAL REMARKS: [blank]
 INTERMOUNTAIN LABS www.intermountainlabs.com
 Rev 4.5