



Tuesday, August 23, 2011

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

RE: Reno Creek Project
Orde

r No.: S1107427

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM2-001-110726 on July 26, 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: 8/23/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1107427

CASE NARRATIVE
Report ID: S1107427001

Sample PZM2-001-110726 was received on July 26, 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.

PZM2-001-110726 scanned at 50 µR/hr when removed from shipping package for Radons when received at ALS.

Qualifiers by sample

- S1107454-001 - Radiochemistry/Lead 210 (Dissolved) - RPD outside accepted recovery limits
- S1107419-001 - Radiochemistry/Gross Beta (Dissolved) - RPD outside accepted recovery limits
- S1107427-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R73363 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- MB-R73363 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- S1107428-003 - 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.

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: S1107427-001
ClientSample ID: PZM2-001-110726
COC: RC 08322

Date Reported 8/23/2011
Report ID S1107427001
WorkOrder: S1107427
CollectionDate: 7/26/2011 1:54:00 PM
DateReceived: 7/26/2011 4:49:00 PM
FieldSampler: RD
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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FieldSampler: RD
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	128	mg/L		5	SM 2320B	7/27/2011 6:21:43 PM	AMB
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	7/27/2011 6:21:43 PM	AMB
Alkalinity, Carbonate as CO3	30	mg/L		5	SM 2320B	7/27/2011 6:21:43 PM	AMB
Chloride	9	mg/L		1	EPA 300.0	8/1/2011 3:15:00 PM	ARF
Fluoride	0.2	mg/L		0.1	SM 4500FC	7/27/2011 6:21:43 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	7/31/2011 12:40:00 PM	MEL
Sulfate	570	mg/L		1	EPA 300.0	8/1/2011 3:15:00 PM	ARF
Calcium	84	mg/L		1	EPA 200.7	7/27/2011 7:57:19 PM	DG
Magnesium	2	mg/L		1	EPA 200.7	7/27/2011 7:57:19 PM	DG
Potassium	54	mg/L		1	EPA 200.7	7/27/2011 7:57:19 PM	DG
Sodium	237	mg/L		1	EPA 200.7	7/27/2011 7:57:19 PM	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	7/28/2011 12:20:00 PM	MEL
Silica as SiO2	7	mg/L		1	EPA 200.7	7/27/2011 7:57:19 PM	DG
General Parameters							
pH	11.3	s.u.		0.1	SM 4500 H B	7/27/2011 6:21:43 PM	AMB
Electrical Conductivity	1880	µmhos/cm		5	SM 2510B	7/27/2011 6:21:43 PM	AMB
Total Dissolved Solids (180)	1050	mg/L		10	SM 2540	7/29/2011 2:30:00 PM	JF
Data Quality							
Cation Sum	16.02	meq/L		0.01	SM 1030E	8/9/2011 9:50:12 AM	LJK
Anion Sum	14.66	meq/L		0.01	SM 1030E	8/9/2011 9:50:12 AM	LJK
Cation-Anion Balance (± 5%)	4.40	%		0.01	SM 1030E	8/9/2011 9:50:12 AM	LJK
Solids, Total Dissolved (Calc)	1040	mg/L		10	SM 1030E	8/9/2011 9:50:12 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.01	dec. %		0.01	Calculation	8/9/2011 9:55:40 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: S1107427-001
ClientSample ID: PZM2-001-110726
COC: RC 08322

Date Reported 8/23/2011
Report ID S1107427001
WorkOrder: S1107427
CollectionDate: 7/26/2011 1:54:00 PM
DateReceived: 7/26/2011 4:49:00 PM
FieldSampler: RD
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), 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.

These results apply only to the samples tested.

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Alkalinity

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/27/11 15:35	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	Alkalinity, Total (As CaCO3)	596	5	601		99.3	90 - 110	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107436-001AD	07/27/11 20:12	Alkalinity, Bicarbonate as HCO3	1610	5	1680	4.18		20	
		Alkalinity, Carbonate as CO3	14	5	17	13.6		20	
		Alkalinity, Total (As CaCO3)	1340	5	1400	4.36		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/27/11 15:35	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	Electrical Conductivity	1100	5	1120		97.7	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107436-001AD	07/27/11 20:12	Electrical Conductivity	2400	5	2400	0		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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	08/03/11 10:07	Mercury	ND	0.001					

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/03/11 10:06	Mercury	0.002	0.001	0.002		95.9	85 - 115	

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107426-001D	08/03/11 10:37	Mercury	0.002	0.001	0.00244	ND	93.8	70 - 130	

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107426-001D	08/03/11 10:39	Mercury	0.002	0.001	0.002	1.03	92.9	20	

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

Sample ID	RunNo: 72996	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001D	08/03/11 10:36	Mercury	ND	0.001	ND			20	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
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**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/27/11 10:46	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: 72707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	07/27/11 10:48	Aluminum	1.0	0.1	1		103	85 - 115	
		Boron	1.0	0.1	1		102	85 - 115	
		Chromium	1.05	0.01	1		105	85 - 115	
		Iron	1.00	0.05	1		100	85 - 115	
		Manganese	1.00	0.02	1		99.6	85 - 115	
		Nickel	1.03	0.01	1		103	85 - 115	
		Zinc	0.99	0.01	1		99.3	85 - 115	

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107432-001DS	07/27/11 20:40	Aluminum	4.8	0.1	5.5	ND	87.1	70 - 130	
		Boron	5.6	0.1	5.5	0.7	89.3	70 - 130	
		Chromium	4.58	0.01	5.5	ND	83.4	70 - 130	
		Iron	4.64	0.05	5.5	ND	84.4	70 - 130	
		Manganese	4.58	0.02	5.5	0.07	82.1	70 - 130	
		Nickel	4.65	0.01	5.5	ND	84.6	70 - 130	
		Zinc	4.34	0.01	5.5	ND	79.0	70 - 130	

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107432-001DSD	07/27/11 20:42	Aluminum	5.3	0.1	4.8	9.75	95.7	20	
		Boron	6.0	0.1	5.6	7.65	97.0	20	
		Chromium	5.00	0.01	4.58	9.09	90.9	20	
		Iron	5.09	0.05	4.64	9.55	92.5	20	
		Manganese	4.99	0.02	4.58	8.90	89.5	20	
		Nickel	5.09	0.01	4.65	9.39	92.5	20	
		Zinc	4.64	0.01	4.34	6.92	84.4	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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 72707	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107420-002CD	07/27/11 19:33	Aluminum	ND	0.1	ND			20	
		Boron	ND	0.1	ND			20	
		Chromium	ND	0.01	ND			20	
		Iron	0.14	0.05	0.14	0.494		20	
		Manganese	0.14	0.02	0.14	0.991		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: 72692	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	07/27/11 13:46	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: 72692	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	07/27/11 13:42	Arsenic	0.100	0.005	0.1		100	85 - 115	
		Barium	ND	0.5	0.1		91.2	85 - 115	
		Cadmium	0.101	0.002	0.1		101	85 - 115	
		Copper	0.10	0.01	0.1		98.6	85 - 115	
		Lead	0.10	0.02	0.1		97.5	85 - 115	
		Molybdenum	0.10	0.02	0.1		97.7	85 - 115	
		Selenium	0.101	0.005	0.1		101	85 - 115	
		Uranium	0.097	0.001	0.1		97.1	85 - 115	
		Vanadium	0.10	0.02	0.1		96.4	85 - 115	

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ANALYTICAL QC SUMMARY REPORT

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Work Order: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 72692	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107425-001DS	07/27/11 15:02	Arsenic	1.13	0.005	1.1	0.006	102	70 - 130	
		Barium	1.1	0.5	1.1	ND	93.8	70 - 130	
		Cadmium	1.17	0.002	1.1	ND	106	70 - 130	
		Copper	1.12	0.01	1.1	ND	101	70 - 130	
		Lead	1.12	0.02	1.1	ND	102	70 - 130	
		Molybdenum	1.14	0.02	1.1	ND	102	70 - 130	
		Selenium	1.13	0.005	1.1	0.007	102	70 - 130	
		Uranium	1.13	0.001	1.1	ND	103	70 - 130	
		Vanadium	1.12	0.02	1.1	ND	101	70 - 130	

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

Sample ID	RunNo: 72692	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107425-001DMSD	07/27/11 15:13	Arsenic	1.09	0.005	1.13	3.19	99.0	20	
		Barium	1.1	0.5	1.1	0.194	94.0	20	
		Cadmium	1.16	0.002	1.17	0.470	105	20	
		Copper	1.08	0.01	1.12	3.20	98.2	20	
		Lead	1.06	0.02	1.12	5.43	96.6	20	
		Molybdenum	1.10	0.02	1.14	3.65	98.4	20	
		Selenium	1.09	0.005	1.13	3.41	98.3	20	
		Uranium	1.10	0.001	1.13	2.51	100	20	
		Vanadium	1.06	0.02	1.12	5.32	95.5	20	

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

Sample ID	RunNo: 72692	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107425-001DD	07/27/11 14:58	Arsenic	0.005	0.005	0.006	2.60		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	0.007	0.005	0.007	0.588		20	
		Uranium	ND	0.001	ND			20	
		Vanadium	ND	0.02	ND			20	

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**ANALYTICAL QC SUMMARY REPORT**

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Work Order: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Fluoride by SM 4500Sample Type **MBLK** Units: mg/L

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/27/11 15:35	Fluoride	ND	0.1					

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	Fluoride	3.0	0.1	2.96		103	90 - 110	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107442-004ASPK	07/27/11 21:41	Fluoride	2.6	0.1	2.5	ND	105	80 - 120	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107420-002AD	07/27/11 17:32	Fluoride	0.4	0.1	0.4	0		20	

Gross Alpha, Beta by SM 7110BSample Type **MBLK** Units: pCi/L

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-214	08/04/11 9:33	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-214	08/04/11 9:33	Gross Alpha (Dissolved)	84	2	73.6		115	83 - 133	
		Gross Beta (Dissolved)	135	3	126		107	88 - 115	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107454-001FMS	08/08/11 21:30	Gross Alpha (Dissolved)	136	2	147	5	88.8	48 - 153	
		Gross Beta (Dissolved)	285	4	252	21	105	60 - 140	

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

Sample ID	RunNo: 73052	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107419-001FDUP	08/04/11 9:33	Gross Alpha (Dissolved)	9	2	10	6.07		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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Anions by ION Chromatography

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	08/01/11 8:39	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	08/01/11 8:50	Chloride	31	1	30		103	90 - 110	
		Sulfate	142	1	150		94.9	90 - 110	

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001ASPK	08/01/11 15:38	Chloride	76	1	80	9	84.5	80 - 120	
		Sulfate	1180	1	640	570	95.0	80 - 120	

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

Sample ID	RunNo: 72900	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107427-001AD	08/01/11 15:26	Chloride	9	1	9	0.669		20	
		Sulfate	569	1	570	0.0929		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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/27/11 10:46	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	07/27/11 10:51	Calcium	40	1	40		99.7	85 - 115	
		Magnesium	41	1	40		101	85 - 115	
		Potassium	40	1	40		101	85 - 115	
		Sodium	39	1	40		96.7	85 - 115	

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107428-003AS	07/27/11 20:09	Calcium	43	1	25	19	95.9	70 - 130	
		Magnesium	37	1	25	12	100	70 - 130	
		Potassium	39	1	25	12	111	70 - 130	
		Sodium	284	1	25	296	-45.8	70 - 130	S

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1107428-003ASD	07/27/11 20:11	Calcium	47	1	43	8.28	110	20	
		Magnesium	40	1	37	8.37	112	20	
		Potassium	43	1	39	9.60	126	20	
		Sodium	284	1	284	0.0861	-46.8	20	

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

Sample ID	RunNo: 72698	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107428-002AD	07/27/11 20:04	Calcium	39	1	38	1.04		20	
		Magnesium	21	1	21	3.56		20	
		Potassium	14	1	14	0.862		20	
		Sodium	367	1	360	1.90		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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	07/28/11 9:48	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	07/28/11 9:50	Nitrogen, Ammonia (As N)	8.5	0.1	8.93		95.2	90 - 110	

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001C	07/28/11 12:22	Nitrogen, Ammonia (As N)	9.7	0.1	10	0.3	94.6	80 - 120	

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

Sample ID	RunNo: 72741	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107427-001C	07/28/11 12:21	Nitrogen, Ammonia (As N)	0.3	0.1	0.3	5.78		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	07/31/11 11:42	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	07/31/11 11:44	Nitrogen, Nitrate-Nitrite (as N)	10.1	0.1	10		101	90 - 110	

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001C	07/31/11 12:00	Nitrogen, Nitrate-Nitrite (as N)	9.7	0.1	10	ND	96.8	80 - 120	

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

Sample ID	RunNo: 72840	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107427-001C	07/31/11 11:59	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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-217	08/16/11 11:09	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-217	08/15/11 17:07	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-221	08/18/11 9:45	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-221	08/16/11 16:44	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-217	08/16/11 11:09	Lead 210 (Dissolved)	16	1	13		126	67.6 - 131	
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Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-217 PO	08/15/11 17:07	Polonium 210 (Dissolved)	4	1	3.21		130	35.1 - 175	
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Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-221	08/18/11 9:45	Lead 210 (Suspended)	13	1	13		96.9	60.3 - 141	
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Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-221	08/16/11 16:44	Polonium 210 (Suspended)	3	1	3.15		100	48.6 - 156	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 73546	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107427-001FMS	08/16/11 11:09	Lead 210 (Dissolved)	110	1	13	101	70.1	66 - 133	
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Sample ID	RunNo: 73549	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107427-001FMS	08/15/11 17:07	Polonium 210 (Dissolved)	16	1	13	10	43.0	20.9 - 160	
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Sample ID	RunNo: 73556	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107418-001FMS	08/18/11 9:45	Lead 210 (Suspended)	13	1	13	ND	97.6	62.4 - 132	
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Sample ID	RunNo: 73557	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1107418-001FMS	08/16/11 16:44	Polonium 210 (Suspended)	13	1	13	ND	102	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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 73546	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107454-001FDUP	08/16/11 11:09	Lead 210 (Dissolved)	1	1	3	59.9		20	R
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Sample ID	RunNo: 73549	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107454-001FDUP	08/15/11 17:07	Polonium 210 (Dissolved)	ND	1	ND			20	
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Sample ID	RunNo: 73556	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107425-001FDUP	08/18/11 9:45	Lead 210 (Suspended)	ND	1	ND			20	
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Sample ID	RunNo: 73557	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1107425-001FDUP	08/16/11 16:44	Polonium 210 (Suspended)	ND	1	ND			20	
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Radium 228

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

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-220B	08/12/11 16:13	Radium 228 (Dissolved)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-220B	08/12/11 16:13	Radium 228 (Dissolved)	10	1	9.3		109	74.9 - 122	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1108010-001CMS	08/12/11 16:13	Radium 228 (Dissolved)	9	1	9.3	ND	94.5	48.4 - 167	
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Sample Type **DUP** Units: pCi/L

Sample ID	RunNo: 73374	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1108020-002ADUP	08/12/11 16:13	Radium 228 (Dissolved)	ND	1	ND			20	
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- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by a contract laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Radium 226 by SM 7500

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-213B	08/09/11 8:57	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-220	08/15/11 15:02	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-213B	08/09/11 8:57	Radium 226 (Dissolved)	5.4	0.2	5		109	62.5 - 125	

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-220	08/15/11 15:02	Radium 226 (Suspended)	4.8	0.2	5		96.3	56.4 - 132	

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107426-001FMS	08/09/11 8:57	Radium 226 (Dissolved)	5.2	0.2	5	0.3	98.3	41.6 - 146	

Sample ID	RunNo: 73444	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107427-001FMS	08/15/11 17:13	Radium 226 (Suspended)	10.5	0.2	5	6.4	83.2	51.4 - 135	

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

Sample ID	RunNo: 73377	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107425-001FDUP	08/09/11 8:57	Radium 226 (Dissolved)	0.4	0.2	0.5	8.36		20	

Sample ID	RunNo: 73444	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001FDUP	08/15/11 15:02	Radium 226 (Suspended)	ND	0.2	ND			20	

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-213	08/10/11 8:38	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 73466	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-221	08/16/11 9:06	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-213	08/10/11 8:38	Thorium 230 (Dissolved)	12	0.2	12		99.8	67.1 - 134	

Sample ID	RunNo: 73466	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-221	08/15/11 8:38	Thorium 230 (Suspended)	13	0.2	12		102	69.2 - 127	

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

Sample ID	RunNo: 73376	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107418-001FDUP	08/10/11 8:38	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 73466	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1108111-003EDUP	08/15/11 8:38	Thorium 230 (Dissolved)	ND	0.2	ND			20	

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

Sample ID	RunNo: 73363	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R73363	07/27/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 73363	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R73363	07/27/11 0:00	Radon-222	22800	100	22500		101	75 - 125	L

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

Sample ID	RunNo: 73363	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107427-001A	07/27/11 0:00	Radon-222	1680000	50	1710000	1.75		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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Silica as SiO2

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

Sample ID	RunNo: 72708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	07/27/11 10:46	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 72708	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	07/27/11 10:48	Silica as SiO2	2.1	0.1	2.14		95.9	85 - 115	

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

Sample ID	RunNo: 72708	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107420-002CD	07/27/11 19:33	Silica as SiO2	27.0	0.1	26.1	3.37		20	

Solids By SM 2540

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	07/29/11 14:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	07/29/11 14:15	Total Dissolved Solids (180)	220	10	226		96.5	90 - 110	

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

Sample ID	RunNo: 73063	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107456-001A	07/29/11 14:50	Total Dissolved Solids (180)	1740	10	1760	0.683		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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-5341	08/01/11 17:48	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-5341	08/01/11 17:50	Iron	0.48	0.05	0.5		96.3	85 - 115	
		Manganese	0.20	0.02	0.2		98.2	85 - 115	

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107425-001ES	08/01/11 17:55	Iron	0.59	0.05	0.5	0.10	96.9	70 - 130	
		Manganese	0.21	0.02	0.2	ND	101	70 - 130	

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

Sample ID	RunNo: 72901	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107426-001ED	08/01/11 18:09	Iron	0.22	0.05	0.22	1.08		20	
		Manganese	ND	0.02	ND			20	

Suspended Natural Uranium

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	08/09/11 12:49	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	08/09/11 12:45	Uranium Suspended	0.105	0.0003	0.1		105	85 - 115	

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107418-001FS	08/09/11 14:18	Uranium Suspended	1.14	0.0003	1.1	ND	103	70 - 130	

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

Sample ID	RunNo: 73195	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107418-001FD	08/09/11 14:14	Uranium Suspended	ND	0.0003	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: S1107427
Project: Reno Creek Project

Date: 8/23/2011
Report ID: S1107427001

pH Water

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	07/27/11 15:26	pH	8.5	0.1	8.48		100	90 - 110	

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

Sample ID	RunNo: 72697	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107436-001AD	07/27/11 20:12	pH	8.3	0.1	8.3	0.179		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

