



Thursday, July 21, 2011

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

RE: Reno Creek Project
Orde

r No.: S1106164

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples PZM18-003-110608 on June 8, 2011.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Lacey Ketron
Project Manager

xc: File
Encl.



Date: 7/21/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1106164

CASE NARRATIVE
Report ID: S1106164001

Sample PZM18-003-110608 was received on June 8, 2011.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1998
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition
Methods indicated with the Monday, March 12, 2007 Federal Register, 40 CFR Part 122, 136 et al.

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

For the purposes of this report, the Reporting Limit (RL) is the Practical Quantitation Limit (PQL).

Radon 222 was analyzed through ALS Laboratory Group Certification #: CO00078.

Qualifiers by sample

MB-R71505 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R71505 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1106164-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1106164-001 - General Parameters/Radon-222 - RPD outside accepted recovery limits
S1106179-001 - Radiochemistry/Gross Beta (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

Date Reported 7/21/2011
Report ID S1106164001

ProjectName: Reno Creek Project
Lab ID: S1106164-001
ClientSample ID: PZM18-003-110608
COC: RC 08290

WorkOrder: S1106164
CollectionDate: 6/8/2011 1:55:00 PM
DateReceived: 6/8/2011 4:55:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Field						
pH Reading 1	11.39	s.u.			Field	6/8/2011 1:55:00 PM
pH Reading 2	11.32	s.u.			Field	6/8/2011 1:55:00 PM
pH Reading 3	11.27	s.u.			Field	6/8/2011 1:55:00 PM
Conductivity Reading 1	1172	µmhos/cm			Field	6/8/2011 1:55:00 PM
Conductivity Reading 2	1168	µmhos/cm			Field	6/8/2011 1:55:00 PM
Conductivity Reading 3	1170	µmhos/cm			Field	6/8/2011 1:55:00 PM
Turbidity Reading 1	0.6	NTU			Field	6/8/2011 1:55:00 PM
Turbidity Reading 2	0.6	NTU			Field	6/8/2011 1:55:00 PM
Turbidity Reading 3	0.6	NTU			Field	6/8/2011 1:55:00 PM
Dissolved Oxygen Reading 1	1.63	mg/L			Field	6/8/2011 1:55:00 PM
Dissolved Oxygen Reading 2	1.31	mg/L			Field	6/8/2011 1:55:00 PM
Dissolved Oxygen Reading 3	1.26	mg/L			Field	6/8/2011 1:55:00 PM
Temperature Reading 1	12.58	°C			Field	6/8/2011 1:55:00 PM
Temperature Reading 2	12.90	°C			Field	6/8/2011 1:55:00 PM
Temperature Reading 3	13.02	°C			Field	6/8/2011 1:55:00 PM
Oxygen Reduction Potential Reading	-197.9	mV			Field	6/8/2011 1:55:00 PM
Oxygen Reduction Potential Reading	-190.0	mV			Field	6/8/2011 1:55:00 PM
Oxygen Reduction Potential Reading	-185.4	mV			Field	6/8/2011 1:55:00 PM
Purge Rate Reading 1	125	ml/min			Field	6/8/2011 1:55:00 PM
Purge Rate Reading 2	125	ml/min			Field	6/8/2011 1:55:00 PM
Purge Rate Reading 3	125	ml/min			Field	6/8/2011 1:55:00 PM
Water Level Reading 1	163.97	Ft			Field	6/8/2011 1:55:00 PM
Water Level Reading 2	164.00	Ft			Field	6/8/2011 1:55:00 PM
Water Level Reading 3	164.06	Ft			Field	6/8/2011 1:55:00 PM

These results apply only to the samples tested.

RL - Reporting Limit

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

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

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported: 7/21/2011
Report ID: S1106164001

ProjectName: Reno Creek Project
Lab ID: S1106164-001
ClientSample ID: PZM18-003-110608
COC: RC 08290

WorkOrder: S1106164
CollectionDate: 6/8/2011 1:55:00 PM
DateReceived: 6/8/2011 4:55:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	42	mg/L		5	SM 2320B	6/10/2011 5:04:37 PM	AMB
Alkalinity, Bicarbonate as HCO3	8	mg/L		5	SM 2320B	6/10/2011 5:04:37 PM	AMB
Alkalinity, Carbonate as CO3	21	mg/L		5	SM 2320B	6/10/2011 5:04:37 PM	AMB
Chloride	4	mg/L		1	EPA 300.0	6/13/2011 7:36:00 PM	KO
Fluoride	0.1	mg/L		0.1	SM 4500FC	6/10/2011 5:04:37 PM	AMB
Nitrogen, Nitrate-Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	6/16/2011 8:29:00 PM	MEL
Sulfate	487	mg/L		1	EPA 300.0	6/13/2011 7:36:00 PM	KO
Calcium	86	mg/L		1	EPA 200.7	6/13/2011 1:52:50 PM	DG
Magnesium	5	mg/L		1	EPA 200.7	6/13/2011 1:52:50 PM	DG
Potassium	12	mg/L		1	EPA 200.7	6/13/2011 1:52:50 PM	DG
Sodium	168	mg/L		1	EPA 200.7	6/13/2011 1:52:50 PM	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	6/16/2011 3:56:00 PM	MEL
Silica as SiO2	8	mg/L		1	EPA 200.7	6/13/2011 1:52:50 PM	DG
General Parameters							
pH	10.0	s.u.		0.1	SM 4500 H B	6/10/2011 5:04:37 PM	AMB
Electrical Conductivity	991	µmhos/cm		5	SM 2510B	6/10/2011 5:04:37 PM	AMB
Total Dissolved Solids (180)	890	mg/L		10	SM 2540	6/10/2011 11:50:00 AM	JF
Data Quality							
Cation Sum	12.24	meq/L		0.01	SM 1030E	6/17/2011 11:38:15 AM	LJK
Anion Sum	11.10	meq/L		0.01	SM 1030E	6/17/2011 11:38:15 AM	LJK
Cation-Anion Balance (± 5%)	4.86	%		0.01	SM 1030E	6/17/2011 11:38:15 AM	LJK
Solids, Total Dissolved (Calc)	790	mg/L		10	SM 1030E	6/17/2011 11:38:15 AM	LJK
Calculated TDS/TDS Ratio (0.80-1.20)	1.13	dec. %		0.01	Calculation	6/17/2011 11:43:52 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

Date Reported 7/21/2011
Report ID S1106164001

ProjectName: Reno Creek Project
Lab ID: S1106164-001
ClientSample ID: PZM18-003-110608
COC: RC 08290

WorkOrder: S1106164
CollectionDate: 6/8/2011 1:55:00 PM
DateReceived: 6/8/2011 4:55:00 PM
FieldSampler: TN
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	6/13/2011 1:52:50 PM	DG
Arsenic	0.001	mg/L		0.001	EPA 200.8	6/13/2011 10:42:56 AM	MS
Barium	ND	mg/L		0.1	EPA 200.8	6/13/2011 10:42:56 AM	MS
Boron	ND	mg/L		0.1	EPA 200.7	6/13/2011 1:52:50 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	6/13/2011 10:42:56 AM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	6/13/2011 1:52:50 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	6/13/2011 10:42:56 AM	MS
Iron	ND	mg/L		0.05	EPA 200.7	6/13/2011 1:52:50 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	6/13/2011 10:42:56 AM	MS
Manganese	ND	mg/L		0.01	EPA 200.7	6/13/2011 1:52:50 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	6/14/2011 9:02:20 AM	VR
Molybdenum	ND	mg/L		0.01	EPA 200.8	6/13/2011 10:42:56 AM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	6/13/2011 1:52:50 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	6/13/2011 10:42:56 AM	MS
Uranium	0.0040	mg/L		0.0003	EPA 200.8	6/13/2011 10:42:56 AM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	6/13/2011 10:42:56 AM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	6/13/2011 1:52:50 PM	DG
Metals - Suspended							
Uranium	0.0011	mg/L		0.0003	EPA 200.8	6/16/2011 7:33:32 PM	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	6/13/2011 12:57:23 PM	DG
Manganese	ND	mg/L		0.01	EPA 200.7	6/13/2011 12:57:23 PM	DG

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 - S Spike Recovery outside accepted recovery limits

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

Reviewed by: 
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/21/2011
Report ID S1106164001

ProjectName: Reno Creek Project
Lab ID: S1106164-001
ClientSample ID: PZM18-003-110608
COC: RC 08290

WorkOrder: S1106164
CollectionDate: 6/8/2011 1:55:00 PM
DateReceived: 6/8/2011 4:55:00 PM
FieldSampler: TN
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Alkalinity

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/10/11 14:34	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/10/11 14:26	Alkalinity, Total (As CaCO3)	594	5	607		98.0	90 - 110	

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106214-005A	06/13/11 12:25	Alkalinity, Bicarbonate as HCO3	215	5	214	0.479		20	
		Alkalinity, Carbonate as CO3	12	5	12	1.09		20	
		Alkalinity, Total (As CaCO3)	196	5	195	0.323		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/10/11 14:34	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/10/11 14:26	Electrical Conductivity	964	5	1000		96.3	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 70970	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106214-005A	06/13/11 12:25	Electrical Conductivity	272	5	271	0.369		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 71049	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	06/14/11 8:03	Mercury	ND	0.001					

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

Sample ID	RunNo: 71049	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/14/11 8:02	Mercury	0.002	0.001	0.002		95.8	85 - 115	

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

Sample ID	RunNo: 71049	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106182-006C	06/14/11 9:49	Mercury	0.002	0.001	0.00244	ND	92.6	70 - 130	

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

Sample ID	RunNo: 71049	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106182-006C	06/14/11 9:51	Mercury	0.002	0.001	0.002	0.693	93.2	20	

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

Sample ID	RunNo: 71049	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106182-006C	06/14/11 9:47	Mercury	ND	0.001	ND	0		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

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

Sample ID	RunNo: 71004	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/13/11 12:31	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: 71004	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/13/11 12:34	Aluminum	1.0	0.1	1		98.9	85 - 115	
		Boron	1.0	0.1	1		101	85 - 115	
		Chromium	1.00	0.01	1		99.9	85 - 115	
		Iron	0.97	0.05	1		96.6	85 - 115	
		Manganese	1.02	0.02	1		102	85 - 115	
		Nickel	0.97	0.01	1		97.2	85 - 115	
		Zinc	0.99	0.01	1		99.1	85 - 115	

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

Sample ID	RunNo: 71004	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106217-005CS	06/13/11 14:08	Aluminum	5.6	0.1	5.5	ND	102	70 - 130	
		Boron	5.8	0.1	5.5	0.2	102	70 - 130	
		Chromium	5.49	0.01	5.5	ND	99.8	70 - 130	
		Iron	5.72	0.05	5.5	0.47	95.4	70 - 130	
		Manganese	8.16	0.02	5.5	2.78	97.9	70 - 130	
		Nickel	5.22	0.01	5.5	ND	94.8	70 - 130	
		Zinc	5.38	0.01	5.5	ND	97.8	70 - 130	

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

Sample ID	RunNo: 71004	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106217-005CSD	06/13/11 14:11	Aluminum	5.8	0.1	5.6	2.45	104	20	
		Boron	6.0	0.1	5.8	3.43	106	20	
		Chromium	5.58	0.01	5.49	1.73	102	20	
		Iron	5.87	0.05	5.72	2.63	98.1	20	
		Manganese	8.30	0.02	8.16	1.68	100	20	
		Nickel	5.36	0.01	5.22	2.64	97.3	20	
		Zinc	5.50	0.01	5.38	2.31	100	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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 71004	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106217-004CD	06/13/11 14:04	Aluminum	ND	0.1	ND	0		20	
		Boron	ND	0.1	ND	0		20	
		Chromium	ND	0.01	ND	0		20	
		Iron	0.45	0.05	0.44	2.30		20	
		Manganese	1.08	0.02	1.06	1.96		20	
		Nickel	0.02	0.01	0.02	2.14		20	
		Zinc	ND	0.01	ND	0		20	

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 70969	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/13/11 10:34	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: 70969	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/13/11 10:30	Arsenic	0.105	0.005	0.1		105	85 - 115	
		Barium	ND	0.5	0.1		98.1	85 - 115	
		Cadmium	0.108	0.002	0.1		108	85 - 115	
		Copper	0.10	0.01	0.1		101	85 - 115	
		Lead	0.10	0.02	0.1		102	85 - 115	
		Molybdenum	0.10	0.02	0.1		104	85 - 115	
		Selenium	0.106	0.005	0.1		106	85 - 115	
		Uranium	0.111	0.001	0.1		111	85 - 115	
Vanadium	0.11	0.02	0.1		108	85 - 115			

- Qualifiers:**
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 - 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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

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

Sample ID	RunNo: 70969	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106164-001ES	06/13/11 10:51	Arsenic	1.18	0.005	1.1	ND	107	70 - 130	
		Barium	1.1	0.5	1.1	ND	99.9	70 - 130	
		Cadmium	1.21	0.002	1.1	ND	110	70 - 130	
		Copper	1.12	0.01	1.1	ND	101	70 - 130	
		Lead	1.13	0.02	1.1	ND	103	70 - 130	
		Molybdenum	1.18	0.02	1.1	ND	107	70 - 130	
		Selenium	1.19	0.005	1.1	ND	108	70 - 130	
		Uranium	1.24	0.001	1.1	0.004	112	70 - 130	
		Vanadium	1.21	0.02	1.1	ND	110	70 - 130	

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

Sample ID	RunNo: 70969	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106164-001EMSD	06/13/11 10:55	Arsenic	1.18	0.005	1.18	0.0866	107	20	
		Barium	1.1	0.5	1.1	0.165	99.8	20	
		Cadmium	1.21	0.002	1.21	0.0566	110	20	
		Copper	1.11	0.01	1.12	0.371	101	20	
		Lead	1.12	0.02	1.13	1.20	102	20	
		Molybdenum	1.19	0.02	1.18	0.150	107	20	
		Selenium	1.18	0.005	1.19	0.132	108	20	
		Uranium	1.23	0.001	1.24	0.660	111	20	
		Vanadium	1.21	0.02	1.21	0.124	110	20	

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

Sample ID	RunNo: 70969	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106164-001ED	06/13/11 10:46	Arsenic	ND	0.005	ND	0		20	
		Barium	ND	0.5	ND	0		20	
		Cadmium	ND	0.002	ND	0		20	
		Copper	ND	0.01	ND	0		20	
		Lead	ND	0.02	ND	0		20	
		Molybdenum	ND	0.02	ND	0		20	
		Selenium	ND	0.005	ND	0		20	
		Uranium	0.004	0.001	0.004	5.06		20	
		Vanadium	ND	0.02	ND	0		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Fluoride by SM 4500

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/10/11 14:34	Fluoride	ND	0.1					

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/10/11 14:26	Fluoride	2.5	0.1	2.71		90.7	90 - 110	

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106214-004ASPK	06/13/11 12:00	Fluoride	2.5	0.1	2.5	0.2	90.9	80 - 120	

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106214-005A	06/13/11 12:25	Fluoride	0.1	0.1	0.1	2.94		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 71682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-174	06/29/11 20:09	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 71682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-174	06/29/11 20:09	Gross Alpha (Dissolved)	84	2	73.6		115	76.7 - 133	
		Gross Beta (Dissolved)	133	3	126		105	76.7 - 133	

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

Sample ID	RunNo: 71682	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106128-001GMS	06/29/11 20:09	Gross Alpha (Dissolved)	73	2	73.6	ND	98.8	47.8 - 153	
		Gross Beta (Dissolved)	143	3	126	5	110	47.8 - 153	

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

Sample ID	RunNo: 71682	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106179-001GDUP	06/29/11 20:09	Gross Alpha (Dissolved)	5	2	5	1.84		20	
		Gross Beta (Dissolved)	11	4	9	21.3		20	R

- 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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Anions by ION Chromatography

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

Sample ID	RunNo: 71030	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/13/11 10:01	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 71030	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	06/13/11 9:38	Chloride	30	1	30		98.5	90 - 110	
		Sulfate	141	1	150		93.9	90 - 110	

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

Sample ID	RunNo: 71030	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106194-002ASPK	06/13/11 20:56	Chloride	158	1	132	13	111	80 - 120	
		Sulfate	5100	1	1430	3540	109	80 - 120	

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

Sample ID	RunNo: 71030	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106194-002A	06/13/11 20:45	Chloride	14	1	13	8.49		20	
		Sulfate	3750	1	3540	5.95		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

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

Sample ID	RunNo: 71002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/13/11 12:31	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 71002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	06/13/11 12:36	Calcium	37	1	40		92.3	85 - 115	
		Magnesium	37	1	40		93.4	85 - 115	
		Potassium	39	1	40		97.5	85 - 115	
		Sodium	38	1	40		94.2	85 - 115	

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

Sample ID	RunNo: 71002	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106217-005AS	06/13/11 14:08	Calcium	633	1	275	399	85.1	70 - 130	
		Magnesium	896	1	275	660	85.8	70 - 130	
		Potassium	343	1	275	9	122	70 - 130	
		Sodium	1130	1	275	906	82.9	70 - 130	

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

Sample ID	RunNo: 71002	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106217-005ASD	06/13/11 14:11	Calcium	640	1	633	1.12	87.7	20	
		Magnesium	905	1	896	1.08	89.3	20	
		Potassium	350	1	343	2.01	124	20	
		Sodium	1140	1	1130	0.585	85.3	20	

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

Sample ID	RunNo: 71002	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106217-004AD	06/13/11 14:04	Calcium	446	1	437	2.00		20	
		Magnesium	380	1	373	1.82		20	
		Potassium	16	1	15	2.81		20	
		Sodium	93	1	91	2.44		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 71150	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/16/11 13:54	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 71150	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/16/11 13:56	Nitrogen, Ammonia (As N)	8.7	0.1	8.93		97.5	90 - 110	

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

Sample ID	RunNo: 71150	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106250-001D	06/16/11 16:00	Nitrogen, Ammonia (As N)	9.2	0.1	10	ND	92.2	80 - 120	

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

Sample ID	RunNo: 71150	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106250-001D	06/16/11 15:59	Nitrogen, Ammonia (As N)	ND	0.1	ND	0		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 71167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/16/11 18:44	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 71167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/16/11 18:46	Nitrogen, Nitrate-Nitrite (as N)	8.4	0.1	7.69		109	90 - 110	

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

Sample ID	RunNo: 71167	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106250-001D	06/16/11 20:33	Nitrogen, Nitrate-Nitrite (as N)	9.6	0.1	10	ND	96.2	80 - 120	

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

Sample ID	RunNo: 71167	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106250-001D	06/16/11 20:32	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND	0		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

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

Sample ID	RunNo: 71693	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-171	06/30/11 14:04	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 71696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-171	06/27/11 10:40	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 71703	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-171	06/30/11 9:02	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 71709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-171	06/27/11 12:30	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 71693	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-171	06/29/11 17:59	Lead 210 (Dissolved)	15	1	13		119	67.6 - 131	
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Sample ID	RunNo: 71696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-171 PO	06/27/11 10:40	Polonium 210 (Dissolved)	4	1	4.06		108	67.6 - 131	
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Sample ID	RunNo: 71703	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-171	06/30/11 9:02	Lead 210 (Suspended)	13	1	13		102	67.6 - 131	
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Sample ID	RunNo: 71709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-171 PO	06/27/11 12:30	Polonium 210 (Suspended)	4	1	4.06		97.3	67.6 - 131	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 71693	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106164-001GMS	06/29/11 17:59	Lead 210 (Dissolved)	16	1	13	4	84.7	66 - 133	
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Sample ID	RunNo: 71696	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106164-001GMS	06/27/11 10:40	Polonium 210 (Dissolved)	5	1	4.06	ND	114	66 - 133	
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Sample ID	RunNo: 71703	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106250-001GMS	06/30/11 9:02	Lead 210 (Suspended)	13	1	13	ND	98.3	66 - 133	
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Sample ID	RunNo: 71709	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106250-001GMS	06/27/11 12:30	Polonium 210 (Suspended)	9	1	13	ND	67.8	66 - 133	
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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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

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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S1106249-001GDUP 06/29/11 17:59 Lead 210 (Dissolved) 33 1 28 19.7 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106249-001GDUP 06/27/11 10:40 Polonium 210 (Dissolved) 2 1 1 36.6 20 R

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106289-001GDUP 06/30/11 9:02 Lead 210 (Suspended) 9 1 9 4.94 20

Sample ID	RunNo:	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106289-001GDUP 06/27/11 12:30 Polonium 210 (Suspended) ND 1 ND 0 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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MB11-188 07/13/11 15:34 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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LCS11-188 07/13/11 15:34 Radium 228 (Dissolved) 9 1 10.2 89.9 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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S1106333-001AMS 07/13/11 15:34 Radium 228 (Dissolved) 12 1 10.2 ND 114 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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S1106333-002ADUP 07/13/11 15:34 Radium 228 (Dissolved) 1 1 ND 0 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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Radium 226 by SM 7500

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

Sample ID	RunNo: 71404	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-167	06/21/11 21:14	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71551	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-174A	06/27/11 15:12	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 71404	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-167	06/21/11 21:14	Radium 226 (Dissolved)	5.3	0.2	5		106	62.5 - 125	

Sample ID	RunNo: 71551	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-174A	06/27/11 15:12	Radium 226 (Suspended)	4.6	0.2	5		91.3	62.5 - 125	

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

Sample ID	RunNo: 71551	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106089-001G	06/27/11 15:12	Radium 226 (Suspended)	5.5	0.2	5	ND	110	51.4 - 135	

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

Sample ID	RunNo: 71404	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106089-001GDUP	06/21/11 21:14	Radium 226 (Dissolved)	1.6	0.2	1.7	4.70		20	

Sample ID	RunNo: 71551	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106181-002EDUP	06/27/11 15:12	Radium 226 (Suspended)	ND	0.2	ND	0		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

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

Sample ID	RunNo: 71277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-165	06/21/11 8:16	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71891	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-172	06/29/11 7:47	Thorium 230 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 71277	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-165	06/21/11 8:16	Thorium 230 (Dissolved)	13	0.2	12		106	67.1 - 134	

Sample ID	RunNo: 71891	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-172	06/29/11 7:47	Thorium 230 (Dissolved)	13	0.2	12		107	67.1 - 134	

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

Sample ID	RunNo: 71277	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106128-001GDUP	06/20/11 8:17	Thorium 230 (Dissolved)	ND	0.2	ND	0		20	

Sample ID	RunNo: 71891	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106388-001FDUP	06/29/11 7:47	Thorium 230 (Dissolved)	ND	0.2	ND	0		20	

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

Sample ID	RunNo: 71505	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R71505	06/09/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 71505	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R71505	06/10/11 0:00	Radon-222	22700	100	22500		101	75 - 125	L

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

Sample ID	RunNo: 71505	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106164-001B	06/10/11 0:00	Radon-222	560	50	1190	52.9		20	RL

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

Sample ID	RunNo: 71005	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/13/11 12:31	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 71005	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/13/11 12:34	Silica as SiO2	2.2	0.1	2.14		104	85 - 115	

Qualifiers:

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

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

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

Sample ID	RunNo: 71092	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	06/10/11 9:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 71092	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	06/10/11 9:15	Total Dissolved Solids (180)	230	10	226		103	90 - 110	

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

Sample ID	RunNo: 71092	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106132-001A	06/10/11 9:40	Total Dissolved Solids (180)	1580	10	1560	1.03		20	

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

Sample ID	RunNo: 70975	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 6/13 TOT -5196	06/13/11 12:43	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 70975	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 6/13 TOT - 5196	06/13/11 12:45	Iron	0.49	0.05	0.5		97.2	85 - 115	
		Manganese	0.20	0.02	0.2		98.0	85 - 115	

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

Sample ID	RunNo: 70975	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106209-001CS	06/13/11 13:11	Iron	1.47	0.05	0.5	1.02	89.0	70 - 130	
		Manganese	0.44	0.02	0.2	0.25	94.7	70 - 130	

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

Sample ID	RunNo: 70975	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106202-001FD	06/13/11 13:02	Iron	0.13	0.05	0.13	0.224		20	
		Manganese	0.11	0.02	0.11	0.286		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: S1106164
Project: Reno Creek Project

Date: 7/21/2011
Report ID: S1106164001

Suspended Natural Uranium

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

Sample ID	RunNo: 71166	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
INIT CAL BLANK	06/16/11 13:40	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 71166	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/16/11 13:48	Uranium Suspended	0.101	0.0003	0.1		101	85 - 115	

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

Sample ID	RunNo: 71166	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106163-001HS	06/16/11 19:25	Uranium Suspended	1.16	0.0003	1.1	0.0004	105	70 - 130	

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

Sample ID	RunNo: 71166	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106163-001HMSD	06/16/11 19:29	Uranium Suspended	1.15	0.0003	1.16	0.560	104	20	

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

Sample ID	RunNo: 71166	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106163-001HD	06/16/11 19:21	Uranium Suspended	ND	0.0003	0.0004	0		20	

pH Water

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/10/11 14:26	pH	8.6	0.1	8.63		99.3	90 - 110	

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

Sample ID	RunNo: 70970	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106214-005A	06/13/11 12:25	pH	8.7	0.1	8.6	0.518		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

- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Traci Mickelson</i>		Telephone # 265-0696			
Report Address pcavendor@auc-llc.com; mickelson@treccorp.com; jshriver@treccorp.com		Contact Name <i>Traci Mickelson</i>		ANALYSES / PARAMETERS		REMARKS <i>Groundwater</i>			
Invoice Address AUC LLC <i>Gaspenilly Rd 82601</i>		Email <i>mickelson@treccorp.com</i>		See Attached Table 1 (4,14, Guide 8, Radon 222)					
		Phone <i>307-265-0696</i>		See Attached Table 2 (Air Particulate)					
		Purchase Order #		See Attached Table 3 (Vegetation)					
		Quote #		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									
2	51104164-00	6/8/11	13:55	PZM18-003-110605	W	X			
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
LAB COMMENTS Relinquished By (Signature/Printed) <i>Traci Mickelson</i>				DATE	TIME	Received By (Signature/Printed) <i>Alicia D. McLois</i>	DATE	TIME	
6.8				6/11/11		6/10/11	10:55		
SHIPPING INFO				MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION	
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input checked="" type="checkbox"/> Other _____		<input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Trip Blank <input type="checkbox"/> Other _____		WT SL SD TB OT		<input type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied		<input type="checkbox"/> Compliance Monitoring? Program (SDWA, NPDES,...) PWSID / Permit # <input type="checkbox"/> Chlorinated? Sample Disposal: Lab _____ Client _____	
ADDITIONAL REMARKS									