



Thursday, July 07, 2011

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

RE: Reno Creek Project
Orde

r No.: S1103374

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples BK1-002-110323, MWS05-002-110323, SM5-002-110323, and UM5-002-110323 on March 23, 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: 7/7/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1103374

CASE NARRATIVE
Report ID: S1103374002
(Replaces S1103374001)

Samples BK1-002-110323, MWS05-002-110323, SM5-002-110323, and UM5-002-110323 were received on March 23, 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.

Per client, sample ID on COC is incorrect and requested correction from UM5-001-110323 to UM5-002-110323.

Qualifiers by sample

S1103374-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1103374-002 - General Parameters/Radon-222 - Analyzed by a contract laboratory
S1103374-003 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Qualifiers by sample

S1103415-006 - Anions/Chloride - Spike Recovery outside accepted recovery limits (1)
S1103374-002 - Cations/Calcium - Spike Recovery outside accepted recovery limits (2)
S1103374-002 - Cations/Potassium - Spike Recovery outside accepted recovery limits (2)
S1103374-002 - Cations/Calcium - Spike Recovery outside accepted recovery limits (2)
S1103374-002 - Cations/Magnesium - Spike Recovery outside accepted recovery limits (2)
S1103374-002 - Cations/Sodium - Spike Recovery outside accepted recovery limits (2)
MB-R68897 - General Parameters/Radon-222 - Analyzed by a contract laboratory
LCS-R68897 - General Parameters/Radon-222 - Analyzed by a contract laboratory

(1) Spike recovery outside acceptance criteria due to potential sample matrix interference. Data approved as all other QC checks were within acceptance limits.

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

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/7/2011
Report ID S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-001
ClientSample ID: SM5-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 10:20:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1103374-001
ClientSample ID: SM5-002-110323
COC: #RC 08016

Date Reported 7/7/2011
Report ID S1103374002
(Replaces S1103374001)
WorkOrder: S1103374
CollectionDate: 3/23/2011 10:20:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

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

Date Reported: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-001
ClientSample ID: SM5-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 10:20:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	3/25/2011 2:16:33 PM	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	3/25/2011 1:49:29 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	3/25/2011 1:49:29 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	3/25/2011 2:16:33 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	3/25/2011 1:49:29 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	3/25/2011 2:16:33 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	3/25/2011 1:49:29 PM	MS
Iron	ND	mg/L		0.05	EPA 200.7	3/25/2011 2:16:33 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	3/25/2011 1:49:29 PM	MS
Manganese	0.51	mg/L		0.01	EPA 200.7	3/25/2011 2:16:33 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	4/1/2011 11:55:06 AM	BK
Molybdenum	ND	mg/L		0.01	EPA 200.8	3/25/2011 1:49:29 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	3/25/2011 2:16:33 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	3/25/2011 1:49:29 PM	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	3/25/2011 1:49:29 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	3/25/2011 1:49:29 PM	MS
Zinc	ND	mg/L		0.01	EPA 200.7	3/25/2011 2:16:33 PM	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	4/5/2011 10:19:57 AM	MS
Metals - Total							
Iron	3.26	mg/L		0.05	EPA 200.7	3/28/2011 4:50:02 PM	DG
Manganese	0.51	mg/L		0.01	EPA 200.7	3/28/2011 4:50:02 PM	DG

These results apply only to the samples tested.

RL - Reporting Limit

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- * 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 7/7/2011
Report ID S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-001
ClientSample ID: SM5-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 10:20:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved (Gross Alpha, Lead 210, etc.), Radionuclides - Suspended (Lead 210, Polonium 210, etc.), and Radionuclides - Total (Radon 222).

These results apply only to the samples tested.

RL - Reporting Limit

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C Calculated Value
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O Outside the Range of Dilutions

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1103374-002
ClientSample ID: MWS05-002-110323
COC: #RC 08016

Date Reported 7/7/2011
Report ID S1103374002
(Replaces S1103374001)
WorkOrder: S1103374
CollectionDate: 3/23/2011 11:30:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/7/2011
Report ID S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-002
ClientSample ID: MWS05-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 11:30:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
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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Reviewed by: [Signature]
Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
 1536 Cole Blvd
 Lakewood, CO 80401

ProjectName: Reno Creek Project
Lab ID: S1103374-002
ClientSample ID: MWS05-002-110323
COC: #RC 08016

Date Reported: 7/7/2011
Report ID: S1103374002
 (Replaces S1103374001)

WorkOrder: S1103374
CollectionDate: 3/23/2011 11:30:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.6	pCi/L		4	SM 7110B	4/17/2011 9:40:04 PM	SH
Gross Alpha Precision (±)	2.9	pCi/L			SM 7110B	4/17/2011 9:40:04 PM	SH
Gross Beta	ND	pCi/L		9	SM 7110B	4/17/2011 9:40:04 PM	SH
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	4/17/2011 9:40:04 PM	SH
Lead 210	ND	pCi/L		1	OTW01	4/29/2011 12:11:00 PM	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	4/29/2011 12:11:00 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	4/29/2011 5:10:00 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	4/29/2011 5:10:00 PM	SH
Radium 226	1.6	pCi/L		0.2	SM 7500-Ra B	4/27/2011 10:26:27 AM	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500-Ra B	4/27/2011 10:26:27 AM	SH
Radium 228	ND	pCi/L		1	Ra-05	4/25/2011 3:46:00 PM	SH
Radium 228 Precision (±)	NA	pCi/L			Ra-05	4/25/2011 3:46:00 PM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	4/21/2011 8:08:00 AM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	4/21/2011 8:08:00 AM	SH
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	4/29/2011 2:43:00 PM	SH
Lead 210 Precision (±)	NA	pCi/L			OTW01	4/29/2011 2:43:00 PM	SH
Polonium 210	ND	pCi/L		1	OTW01	4/29/2011 7:38:00 PM	SH
Polonium 210 Precision (±)	NA	pCi/L			OTW01	4/29/2011 7:38:00 PM	SH
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	4/26/2011 11:46:23 AM	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	4/26/2011 11:46:23 AM	SH
Thorium 230	ND	pCi/L		0.2	ACW10	4/26/2011 1:55:00 PM	SH
Thorium 230 Precision (±)	NA	pCi/L			ACW10	4/26/2011 1:55:00 PM	SH
Radionuclides - Total							
Radon 222	404	pCi/L	L	50	SM7500-RN	3/24/2011	LJK
Radon 222 Precision (±)	53	pCi/L	L		SM7500-RN	3/24/2011	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 7/7/2011
Report ID S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-003
ClientSample ID: UM5-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 1:31:00 PM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401
ProjectName: Reno Creek Project
Lab ID: S1103374-003
ClientSample ID: UM5-002-110323
COC: #RC 08016

Date Reported 7/7/2011
Report ID S1103374002
(Replaces S1103374001)
WorkOrder: S1103374
CollectionDate: 3/23/2011 1:31:00 PM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-003
ClientSample ID: UM5-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 1:31:00 PM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	3/25/2011 2:28:04 PM	DG
Arsenic	ND	mg/L		0.001	EPA 200.8	3/25/2011 2:09:06 PM	MS
Barium	ND	mg/L		0.1	EPA 200.8	3/25/2011 2:09:06 PM	MS
Boron	ND	mg/L		0.1	EPA 200.7	3/25/2011 2:28:04 PM	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	3/25/2011 2:09:06 PM	MS
Chromium	ND	mg/L		0.01	EPA 200.7	3/25/2011 2:28:04 PM	DG
Copper	ND	mg/L		0.01	EPA 200.8	3/25/2011 2:09:06 PM	MS
Iron	ND	mg/L		0.05	EPA 200.7	3/25/2011 2:28:04 PM	DG
Lead	ND	mg/L		0.01	EPA 200.8	3/25/2011 2:09:06 PM	MS
Manganese	0.01	mg/L		0.01	EPA 200.7	3/25/2011 2:28:04 PM	DG
Mercury	ND	mg/L		0.001	EPA 245.1	4/1/2011 12:05:26 PM	BK
Molybdenum	0.01	mg/L		0.01	EPA 200.8	3/25/2011 2:09:06 PM	MS
Nickel	ND	mg/L		0.05	EPA 200.7	3/25/2011 2:28:04 PM	DG
Selenium	ND	mg/L		0.005	EPA 200.8	3/25/2011 2:09:06 PM	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	3/25/2011 2:09:06 PM	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	3/25/2011 2:09:06 PM	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	3/25/2011 2:28:04 PM	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	4/5/2011 10:34:58 AM	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	3/28/2011 4:54:41 PM	DG
Manganese	0.02	mg/L		0.01	EPA 200.7	3/28/2011 4:54:41 PM	DG

These results apply only to the samples tested.

RL - Reporting Limit

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 - C Calculated Value
 - H Holding times for preparation or analysis exceeded
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 - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
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- 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 7/7/2011
Report ID S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-003
ClientSample ID: UM5-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 1:31:00 PM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
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 Radionuclides section includes Radon 222.

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

ProjectName: Reno Creek Project
Lab ID: S1103374-004
ClientSample ID: BK1-002-110323
COC: #RC 08016

WorkOrder: S1103374
CollectionDate: 3/23/2011 10:40:00 AM
DateReceived: 3/23/2011 4:40:00 PM
FieldSampler: JS
Matrix: Water

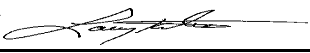
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Total							
Uranium	ND	mg/L		0.0003	EPA 200.8	3/30/2011 9:48:18 AM	MS
Radionuclides - Total							
Radium 226	ND	pCi/L		0.2	SM 7500-Ra B	4/27/2011 10:26:27 AM	SH
Radium 226 Precision (±)	NA	pCi/L			SM 7500-Ra B	4/27/2011 10:26:27 AM	SH

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - C Calculated Value
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- E Value above quantitation range
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Reviewed by: 
Lacey Ketron, Water Lab Supervisor



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Alkalinity

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/25/11 15:17	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/25/11 15:07	Alkalinity, Total (As CaCO3)	475	5	473		100	96.6 - 103	

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103416-001A	03/25/11 21:50	Alkalinity, Bicarbonate as HCO3	682	5	685	0.459		20	
		Alkalinity, Carbonate as CO3	ND	5	ND	0		20	
		Alkalinity, Total (As CaCO3)	559	5	562	0.459		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103419-003A	03/26/11 0:13	Alkalinity, Bicarbonate as HCO3	333	5	332	0.420		20	
		Alkalinity, Carbonate as CO3	ND	5	ND	0		20	
		Alkalinity, Total (As CaCO3)	273	5	272	0.420		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103424-002A	03/26/11 2:14	Alkalinity, Bicarbonate as HCO3	134	5	135	0.588		20	
		Alkalinity, Total (As CaCO3)	111	5	111	0.0146		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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/25/11 15:17	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/25/11 15:07	Electrical Conductivity	998	5	1000		99.8	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103405-003A	03/25/11 18:09	Electrical Conductivity	296	5	295	0.339		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103411-004A	03/25/11 19:13	Electrical Conductivity	1360	5	1370	0.438		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103412-007A	03/25/11 19:46	Electrical Conductivity	16800	5	16700	0.480		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103416-001A	03/25/11 21:50	Electrical Conductivity	2450	5	2460	0.407		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103419-003A	03/26/11 0:13	Electrical Conductivity	1250	5	1260	0.318		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103426-002A	03/26/11 3:56	Electrical Conductivity	1740	5	1730	0.405		20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 68803	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	04/01/11 8:44	Mercury	ND	0.001					

Sample ID	RunNo: 68803	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	04/01/11 8:49	Mercury	ND	0.001					

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

Sample ID	RunNo: 68803	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	04/01/11 8:42	Mercury	0.002	0.001	0.002		97.1	85 - 115	

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

Sample ID	RunNo: 68803	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103361-005C	04/01/11 11:39	Mercury	0.002	0.001	0.00244	ND	91.7	70 - 130	

Sample ID	RunNo: 68803	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103374-003E	04/01/11 12:08	Mercury	0.002	0.001	0.00244	ND	91.3	70 - 130	

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

Sample ID	RunNo: 68803	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103361-005C	04/01/11 11:41	Mercury	0.002	0.001	0.002	0.715	92.3	0	

Sample ID	RunNo: 68803	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103374-003E	04/01/11 12:10	Mercury	0.002	0.001	0.002	0.381	91.0	0	

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

Sample ID	RunNo: 68803	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103361-005C	04/01/11 11:37	Mercury	ND	0.001	ND	0		20	

Sample ID	RunNo: 68803	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103374-003E	04/01/11 12:07	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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
 (Replaces S1103374001)

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 68624	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	03/25/11 12:57	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: 68624	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	03/25/11 13:00	Aluminum	1.0	0.1	1		100	85 - 115	
		Boron	1.0	0.1	1		100	85 - 115	
		Chromium	1.02	0.01	1		102	85 - 115	
		Iron	1.01	0.05	1		101	85 - 115	
		Manganese	1.01	0.02	1		101	85 - 115	
		Nickel	1.00	0.01	1		99.8	85 - 115	
		Zinc	0.97	0.01	1		97.4	85 - 115	

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

Sample ID	RunNo: 68624	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103374-002ES	03/25/11 14:23	Aluminum	1.1	0.1	1	ND	112	70 - 130	
		Boron	1.2	0.1	1	ND	108	70 - 130	
		Chromium	1.05	0.01	1	ND	105	70 - 130	
		Iron	1.04	0.05	1	ND	103	70 - 130	
		Manganese	1.58	0.02	1	0.60	98.7	70 - 130	
		Nickel	1.02	0.01	1	ND	102	70 - 130	
		Zinc	0.98	0.01	1	ND	97.8	70 - 130	

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

Sample ID	RunNo: 68624	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103374-002ESD	03/25/11 14:25	Aluminum	0.9	0.1	1.1	16.9	93.2	20	
		Boron	1.0	0.1	1.2	16.0	89.5	20	
		Chromium	0.85	0.01	1.05	19.1	85.2	20	
		Iron	0.88	0.05	1.04	15.6	87.1	20	
		Manganese	1.38	0.02	1.58	12.9	78.3	20	
		Nickel	0.87	0.01	1.02	14.9	86.7	20	
		Zinc	0.83	0.01	0.98	15.3	82.8	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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 68624	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103374-001ED	03/25/11 14:18	Aluminum	ND	0.1	ND	0		20	
		Boron	ND	0.1	ND	0		20	
		Chromium	ND	0.01	ND	0		20	
		Iron	ND	0.05	ND	0		20	
		Manganese	0.51	0.02	0.51	0.413		20	
		Nickel	ND	0.01	ND	0		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: 68611	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Init Cal Blank	03/25/11 13:25	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: 68611	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	03/25/11 13:33	Arsenic	0.104	0.005	0.1		104	85 - 115	
		Barium	ND	0.5	0.1		91.2	85 - 115	
		Cadmium	0.098	0.002	0.1		98.4	85 - 115	
		Copper	0.09	0.01	0.1		90.5	85 - 115	
		Lead	0.09	0.02	0.1		92.6	85 - 115	
		Molybdenum	0.10	0.02	0.1		95.2	85 - 115	
		Selenium	0.104	0.005	0.1		104	85 - 115	
		Uranium	0.094	0.001	0.1		93.6	85 - 115	
		Vanadium	0.10	0.02	0.1		96.8	85 - 115	

- 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: S1103374
Project: Reno Creek Project

Date: 7/7/2011

Report ID: S1103374002
 (Replaces S1103374001)

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

Sample ID	RunNo: 68611	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103374-001Es	03/25/11 13:57	Arsenic	1.15	0.005	1.1	ND	104	70 - 130	
		Barium	1.0	0.5	1.1	ND	89.3	70 - 130	
		Cadmium	1.10	0.002	1.1	ND	99.8	70 - 130	
		Copper	0.97	0.01	1.1	ND	88.0	70 - 130	
		Lead	0.94	0.02	1.1	ND	85.7	70 - 130	
		Molybdenum	1.11	0.02	1.1	ND	101	70 - 130	
		Selenium	1.16	0.005	1.1	ND	105	70 - 130	
		Uranium	1.03	0.001	1.1	ND	93.4	70 - 130	
		Vanadium	1.07	0.02	1.1	ND	97.0	70 - 130	

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

Sample ID	RunNo: 68611	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103374-001Emsd	03/25/11 14:01	Arsenic	1.15	0.005	1.15	0.587	105	20	
		Barium	1.0	0.5	1.0	0.738	88.6	20	
		Cadmium	1.09	0.002	1.10	0.555	99.3	20	
		Copper	0.99	0.01	0.97	1.77	89.5	20	
		Lead	0.97	0.02	0.94	2.62	87.9	20	
		Molybdenum	1.11	0.02	1.11	0.0333	101	20	
		Selenium	1.16	0.005	1.16	0.237	105	20	
		Uranium	1.05	0.001	1.03	1.65	95.0	20	
		Vanadium	1.08	0.02	1.07	1.08	98.1	20	

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

Sample ID	RunNo: 68611	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103374-001Ed	03/25/11 13:53	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	ND	0.001	ND	0		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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Fluoride by SM 4500

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	03/25/11 15:17	Fluoride	ND	0.1					

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/25/11 15:07	Fluoride	3.1	0.1	2.82		109	86.1 - 114	

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103416-1SPK	03/25/11 21:56	Fluoride	2.4	0.1	2.5	ND	95.9	80 - 120	

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103419-2SPK	03/25/11 23:48	Fluoride	2.3	0.1	2.5	ND	92.7	80 - 120	

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103416-001A	03/25/11 21:50	Fluoride	0.1	0.1	0.2	5.81		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103419-003A	03/26/11 0:13	Fluoride	0.2	0.1	0.2	1.11		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103424-002A	03/26/11 2:14	Fluoride	0.3	0.1	0.3	0.535		20	

- Qualifiers:**
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 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: AUC LLC
Work Order: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
 (Replaces S1103374001)

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-104	04/17/11 21:40	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-104	04/17/11 21:40	Gross Alpha (Dissolved)	71	2	69		103	72.6 - 137	
		Gross Beta (Dissolved)	129	3	130		100	72.6 - 137	

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103491-001GMS	04/17/11 21:40	Gross Alpha (Dissolved)	58	2	69	ND	84.1	44.4 - 137	
		Gross Beta (Dissolved)	138	3	130	4	104	44.4 - 137	

Sample ID	RunNo: 69264	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103495-001FMS	04/17/11 21:40	Gross Alpha (Dissolved)	86	2	69	12	108	44.4 - 137	
		Gross Beta (Dissolved)	140	3	130	5	104	44.4 - 137	

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

Sample ID	RunNo: 69264	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103494-001FDUP	04/17/11 21:40	Gross Alpha (Dissolved)	110 ± 3.7	2	120	8.66		20	
		Gross Beta (Dissolved)	31.0 ± 1.6	3	34	7.57		20	

Sample ID	RunNo: 69264	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103495-002FDUP	04/17/11 21:40	Gross Alpha (Dissolved)	17.3 ± 1.5	2	15	12.4		20	
		Gross Beta (Dissolved)	6.3 ± 1.2	3	7	11.2		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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Anions by ION Chromatography

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

Sample ID	RunNo: 68619	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	03/25/11 8:54	Chloride	29	1	30		97.0	90 - 110	
		Sulfate	140	1	150		93.1	90 - 110	

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

Sample ID	RunNo: 68619	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103415-006ASPK	03/25/11 20:30	Chloride	287	1	130	123	126	80 - 120	S
		Sulfate	3690	1	1040	2460	118	80 - 120	

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

Sample ID	RunNo: 68619	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103415-006A	03/25/11 20:18	Chloride	123	1	123	0.0711		20	
		Sulfate	2460	1	2460	0.308		20	

Cations by ICP (Method 200.7)

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

Sample ID	RunNo: 68618	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	03/25/11 12:57	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

Sample ID	RunNo: 68723	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	03/30/11 7:39	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 68618	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	03/25/11 13:02	Calcium	39	1	40		98.1	85 - 115	
		Magnesium	40	1	40		98.8	85 - 115	
		Potassium	40	1	40		100	85 - 115	
		Sodium	38	1	40		95.6	85 - 115	

Sample ID	RunNo: 68723	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	03/30/11 7:44	Calcium	39	1	40		97.7	85 - 115	
		Magnesium	41	1	40		101	85 - 115	
		Potassium	40	1	40		100	85 - 115	
		Sodium	37	1	40		93.2	85 - 115	

- 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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Cations by ICP (Method 200.7)

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

Sample ID	RunNo: 68618	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103374-002BS	03/25/11 14:23	Calcium	464	1	50	458	11.9	70 - 130	S
		Magnesium	170	1	50	129	82.4	70 - 130	
		Potassium	82	1	50	15	135	70 - 130	S
		Sodium	249	1	50	208	80.2	70 - 130	

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

Sample ID	RunNo: 68618	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103374-002BSD	03/25/11 14:25	Calcium	425	1	464	8.44	-66.4	20	S
		Magnesium	150	1	170	11.8	42.2	20	S
		Potassium	71	1	82	14.0	112	20	
		Sodium	225	1	249	9.57	32.7	20	S

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

Sample ID	RunNo: 68618	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103374-001BD	03/25/11 14:18	Calcium	470	1	473	0.755		20	
		Magnesium	130	1	130	0.0324		20	
		Potassium	16	1	16	0.710		20	
		Sodium	217	1	216	0.110		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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 68802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Blank	04/01/11 9:57	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 68802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	04/01/11 9:59	Nitrogen, Ammonia (As N)	9.2	0.1	8.93		103	90 - 110	

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

Sample ID	RunNo: 68802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
s1103374-001d	04/01/11 12:22	Nitrogen, Ammonia (As N)	10.4	0.1	10	0.9	94.7	80 - 120	

Sample ID	RunNo: 68802	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
s1103374-003d	04/01/11 12:31	Nitrogen, Ammonia (As N)	9.9	0.1	10	0.2	96.5	80 - 120	

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

Sample ID	RunNo: 68802	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
s1103374-001d	04/01/11 12:21	Nitrogen, Ammonia (As N)	0.9	0.1	0.9	1.22		20	

Sample ID	RunNo: 68802	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
s1103374-003d	04/01/11 12:30	Nitrogen, Ammonia (As N)	0.2	0.1	0.2	5.76		20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 69299	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
blk	04/19/11 11:13	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 69299	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	04/19/11 11:10	Nitrogen, Nitrate-Nitrite (as N)	8.1	0.1	7.69		105	90 - 110	

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

Sample ID	RunNo: 69299	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104069-003C	04/19/11 11:25	Nitrogen, Nitrate-Nitrite (as N)	10.4	0.05	10	ND	104	80 - 120	

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

Sample ID	RunNo: 69299	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104069-003C	04/19/11 11:24	Nitrogen, Nitrate-Nitrite (as N)	ND	0.05	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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
 (Replaces S1103374001)

Lead 210 and Polonium 210

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

Sample ID	RunNo: 69623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-108	04/29/11 12:11	Lead 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 69623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-108	04/29/11 14:43	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-108B	04/29/11 17:10	Polonium 210 (Dissolved)	ND	1					
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Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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DMB11-108B	04/29/11 19:38	Polonium 210 (Suspended)	ND	1					
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Sample ID	RunNo: 69623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-108B	04/29/11 14:43	Lead 210 (Suspended)	ND	1					
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Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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DMB11-108C	04/29/11 19:38	Polonium 210 (Suspended)	ND	1					
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Sample Type **LCS** Units: pCi/L

Sample ID	RunNo: 69623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-108	04/29/11 12:11	Lead 210 (Dissolved)	14	1	13.1		109	67.6 - 131	
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Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-108B	04/29/11 17:10	Polonium 210 (Dissolved)	12	1	13.1		88.3	67.6 - 131	
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Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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DLCS11-108B	04/29/11 19:38	Polonium 210 (Suspended)	15	1	13.1		117	67.6 - 131	
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Sample ID	RunNo: 69623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-108	04/29/11 14:43	Lead 210 (Suspended)	14	1	13.1		107	67.6 - 131	
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Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-108B PO	04/29/11 17:10	Polonium 210 (Dissolved)	6	1	5.57		112	67.6 - 131	
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Sample Type **MS** Units: pCi/L

Sample ID	RunNo: 69623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103374-001GMS	04/29/11 12:11	Lead 210 (Dissolved)	13	1	13.1	ND	103	66 - 133	
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Sample ID	RunNo: 69623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103374-002GMS	04/29/11 12:11	Lead 210 (Dissolved)	13	1	13.1	ND	97.4	66 - 133	
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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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Lead 210 and Polonium 210

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

Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103374-001GMS 04/29/11 17:10 Polonium 210 (Dissolved) 8 1 13.1 ND 59.9 66 - 133

Sample ID	RunNo: 69639	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103374-002GMS 04/29/11 17:10 Polonium 210 (Dissolved) 11 1 13.1 ND 85.2 66 - 133

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

Sample ID	RunNo: 69623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103374-003GDUP 04/29/11 12:11 Lead 210 (Dissolved) ND 1 ND 0 20

Sample ID	RunNo: 69639	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103374-003GDUP 04/29/11 17:10 Polonium 210 (Dissolved) ND 1 ND 0 20

Radium 228

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

Sample ID	RunNo: 69474	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-109 04/25/11 15:46 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 69474	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-109 04/25/11 15:46 Radium 228 (Dissolved) 13 1 13.9 93.2 74.9 - 122

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

Sample ID	RunNo: 69474	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1103374-001GMS 04/25/11 15:46 Radium 228 (Dissolved) 17 1 13.9 1 111 48.4 - 167

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

Sample ID	RunNo: 69474	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1103374-002GDUP 04/25/11 15:46 Radium 228 (Dissolved) ND 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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
 (Replaces S1103374001)

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

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-103	04/25/11 8:23	Radium 226 (Suspended)	ND	0.2					

Sample ID	RunNo: 69538	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-109	04/27/11 10:26	Radium 226	ND	0.2					
		Radium 226 (Dissolved)	ND	0.2					

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

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-103	04/25/11 8:23	Radium 226 (Suspended)	4.8	0.2	5		95.5	56.4 - 132	

Sample ID	RunNo: 69538	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-109	04/27/11 10:26	Radium 226	5.2	0.2	5		103	56.4 - 132	
		Radium 226 (Dissolved)	5.2	0.2	5		103	56.4 - 132	

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

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103494-002FMS	04/26/11 11:46	Radium 226 (Suspended)	6.5	0.2	5	ND	129	51.4 - 135	

Sample ID	RunNo: 69475	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103485-001GMS	04/26/11 11:46	Radium 226 (Suspended)	5.5	0.2	5	ND	110	51.4 - 135	

Sample ID	RunNo: 69538	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104016-001FMS	04/27/11 14:42	Radium 226 (Dissolved)	12.5	0.2	5	7.2	106	51.4 - 135	

Sample ID	RunNo: 69538	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1104102-001AMS	04/27/11 12:36	Radium 226	5.2	0.2	5	1.0	84.5	51.4 - 135	

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

Sample ID	RunNo: 69475	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103494-001FDUP	04/26/11 11:46	Radium 226 (Suspended)	0.3	0.2	ND				

Sample ID	RunNo: 69475	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104083-001GDUP	04/25/11 9:28	Radium 226 (Suspended)	ND	0.2	ND				

Sample ID	RunNo: 69538	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103374-003GDUP	04/27/11 10:26	Radium 226 (Dissolved)	0.4 ± 0.1	0.2	0.4	3.21		20	

Sample ID	RunNo: 69538	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104102-002ADUP	04/27/11 12:36	Radium 226	0.2 ± 0.1	0.2	0.2	1.74		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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
 (Replaces S1103374001)

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

Sample ID	RunNo: 69452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-102B	04/20/11 14:08	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 69452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DMB11-102	04/21/11 12:32	Thorium 230 (Suspended)	ND	0.2					

Sample ID	RunNo: 69543	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-109B	04/26/11 8:52	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 69543	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-109	04/26/11 13:55	Thorium 230 (Suspended)	ND	0.2					

Sample ID	RunNo: 69543	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-109B	04/26/11 13:55	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 69452	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-102B	04/20/11 14:08	Thorium 230 (Dissolved)	12	0.2	12		98.4	67.1 - 134	
		Thorium 230 (Suspended)	12	0.2	12		98.4	67.1 - 134	

Sample ID	RunNo: 69543	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-109B	04/26/11 8:52	Thorium 230 (Dissolved)	14	0.2	12		108	67.1 - 134	

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

Sample ID	RunNo: 69452	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103494-001FDUP	04/20/11 14:09	Thorium 230 (Dissolved)	ND	0.2	ND	0		20	

Sample ID	RunNo: 69543	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1104083-001GDUP	04/26/11 8:52	Thorium 230 (Suspended)	ND	0.2	ND	0		20	

Sample ID	RunNo: 69452	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103455-001GDUP	04/18/11 17:46	Thorium 230 (Suspended)	ND	0.2	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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Radon 222 by SM7500-RN

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

Sample ID	RunNo: 68897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R68897	03/24/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 68897	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R68897	03/24/11 0:00	Radon-222	22000	100	22500		97.7	75 - 125	L

Silica as SiO2

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

Sample ID	RunNo: 68632	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	03/25/11 12:57	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 68632	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	03/25/11 13:00	Silica as SiO2	2.1	0.1	2.14		98.3	85 - 115	

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

Sample ID	RunNo: 68632	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103374-001ED	03/25/11 14:18	Silica as SiO2	9.2	0.1	9.2	0.181		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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Solids By SM 2540

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

Sample ID	RunNo: 68644	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	03/25/11 13:55	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 68644	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Control	03/25/11 14:00	Total Dissolved Solids (180)	220	10	226		98.2	90 - 110	

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

Sample ID	RunNo: 68644	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103377-004A	03/25/11 14:55	Total Dissolved Solids (180)	2770	10	2770	0		20	

Sample ID	RunNo: 68644	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103380-001A	03/25/11 15:50	Total Dissolved Solids (180)	1160	10	1150	0.347		20	

Sample ID	RunNo: 68644	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103395-001B	03/25/11 16:45	Total Dissolved Solids (180)	260	10	250	3.15		20	

Sample ID	RunNo: 68644	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103399-003B	03/25/11 17:45	Total Dissolved Solids (180)	1870	10	1860	0.647		20	

Sample ID	RunNo: 68644	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103412-005A	03/25/11 18:40	Total Dissolved Solids (180)	670	10	660	0.301		20	

Sample ID	RunNo: 68644	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103424-001A	03/25/11 19:35	Total Dissolved Solids (180)	200	10	210	2.91		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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 68671	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 3/25 TOT -4991	03/28/11 16:10	Iron	ND	0.05					
		Manganese	ND	0.02					

Sample ID	RunNo: 68671	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 3/28 TOT -4994	03/28/11 16:22	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 68671	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 3/25 TOT -4991	03/28/11 16:12	Iron	0.47	0.05	0.5		94.8	85 - 115	
		Manganese	0.19	0.02	0.2		96.0	85 - 115	

Sample ID	RunNo: 68671	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 3/28 TOT -4994	03/28/11 16:24	Iron	0.48	0.05	0.5		95.6	85 - 115	
		Manganese	0.19	0.02	0.2		96.7	85 - 115	

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

Sample ID	RunNo: 68671	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103348-002FS	03/28/11 16:45	Iron	0.56	0.05	0.5	0.12	89.0	70 - 130	
		Manganese	0.30	0.02	0.2	0.11	93.5	70 - 130	

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

Sample ID	RunNo: 68671	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103348-002FSD	03/28/11 16:47	Iron	0.56	0.05	0.56	0.463	89.5	20	
		Manganese	0.30	0.02	0.30	0.302	94.0	20	

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

Sample ID	RunNo: 68671	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103348-001FD	03/28/11 16:40	Iron	ND	0.05	ND	0		20	
		Manganese	ND	0.02	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: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

Suspended Natural Uranium

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

Sample ID	RunNo: 68908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
blk	04/05/11 9:39	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 68908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
lcs	04/05/11 9:34	Uranium Suspended	0.0918	0.0003	0.1		91.8	85 - 115	

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

Sample ID	RunNo: 68908	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1103374-001Hs	04/05/11 10:25	Uranium Suspended	1.00	0.0003	1.1	ND	91.0	70 - 130	

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

Sample ID	RunNo: 68908	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1103374-001Hmsd	04/05/11 10:28	Uranium Suspended	0.987	0.0003	1.00	1.41	89.7	20	

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

Sample ID	RunNo: 68908	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103374-001Hd	04/05/11 10:22	Uranium Suspended	ND	0.0003	ND	0		20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1103374
Project: Reno Creek Project

Date: 7/7/2011
Report ID: S1103374002
(Replaces S1103374001)

pH Water

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	03/25/11 15:07	pH	10.8	0.1	10.7		101	94.8 - 105	

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

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103396-001A	03/25/11 16:42	pH	7.7	0.1	7.7	0.0295		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103405-003A	03/25/11 18:09	pH	8.2	0.1	8.2	0.476		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103412-007A	03/25/11 19:46	pH	8.8	0.1	8.8	0.168		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103416-001A	03/25/11 21:50	pH	7.4	0.1	7.4	0.235		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103419-003A	03/26/11 0:13	pH	8.3	0.1	8.3	0.228		20	

Sample ID	RunNo: 68623	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1103424-002A	03/26/11 2:14	pH	8.3	0.1	8.3	0.295		20	

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



Inter-Mountain Labs
 Sheridan, WY and Gillette, WY
 1673 Terra Ave.
 Sheridan, WY 82901
 (307) 672-8945

This is a LEGAL DOCUMENT. All shaded fields must be completed. See reverse for instructions. #RC 08016

- CHAIN OF CUSTODY RECORD -

Client Name: AUC LLC
 Report Address: pcavendor@auc-llc.com; thickerson@treecorp.com; jshriver@treecorp.com
 Invoice Address: AUC LLC
 Project Identification: Reno Creek Project
 Contact Name: Traci Nickerson
 Email: thickerson@treecorp.com
 Phone: (307) 265-0696
 Purchase Order #
 Quote #
 Signifier (Signature/Printed): Justin Scott
 Telephone #: (307) 265-0696

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS	REMARKS
1	Q1103374-01	3/23/11	1020	SMS-002-110323	W	13	See Attached Table 1 (4.14, Guide 8, Radon 222)	Ground water
2	002	3/23/11	1130	MWSD05-002-110323	W	13	See Attached Table 2 (Air Particulate)	Ground water
3	004	3/23/11	1040	BK1-002-110323	W	3	See Attached Table 3 (Vegetation)	Ground water
4	003	3/23/11	1331	VM5-002-110323	W	13	See Attached Table 4 (Sediment)	Ground water
5							See Attached Table 5 (Soil)	
6							See Attached Table 8 WYPDES Discharge	
7							See Attached Table 9 (Blanks)	
8								
9								
10								
11								
12								
13								
14								

LAB COMMENTS: Pollinquinshed By (Signature/Printed): Justin Scott
 DATE: 3/23 1530
 TIME: 1040
 Received By (Signature/Printed): Kevin McLeod
 DATE: 3/24/11
 TIME: 15:34

SHIPPING INFO: UPS Fed Express US Mail Hand Carried Other

MATRIX CODES: Water Soil Solid Trip Blank Other

TURNAROUND TIMES: Check desired service Standard turnaround RUSH - 5 Working Days URGENT - < 2 Working Days

COMPLIANCE INFORMATION: Compliance Monitoring? Program (SDWA, NPDES, ...) PWSID / Permit # Chlorinated? Sample Disposal: Lab Client

ADDITIONAL REMARKS: