



Tuesday, July 26, 2011

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

RE: Reno Creek Project
Orde

r No.: S1106354

Dear Phil Cavendor:

Inter-Mountain Laboratories received samples UM1-003-110616 on June 16, 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: 7/26/2011

CLIENT: AUC LLC
Project: Reno Creek Project
Lab Order: S1106354

CASE NARRATIVE
Report ID: S1106354001

Sample UM1-003-110616 was received on June 16, 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

- S1106354-001 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- LCS-R71609 - General Parameters/Radon-222 - Analyzed by a contract laboratory
- MB-R71609 - General Parameters/Radon-222 - Analyzed by a contract laboratory

Reviewed by:

Lacey Ketron, Water Lab Supervisor



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

Date Reported 7/26/2011
Report ID S1106354001

ProjectName: Reno Creek Project
Lab ID: S1106354-001
ClientSample ID: UM1-003-110616
COC: RC 08288

WorkOrder: S1106354
CollectionDate: 6/16/2011 12:00:00 PM
DateReceived: 6/16/2011 4:01:00 PM
FieldSampler: TN
Matrix: Water

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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

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



Sample Analysis Report

Company: AUC LLC
1536 Cole Blvd
Lakewood, CO 80401

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Matrix: Water

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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Lacey Ketron, Water Lab Supervisor



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DateReceived: 6/16/2011 4:01:00 PM
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Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc) and Metals - Suspended (Uranium) and Metals - Total (Iron, Manganese).

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FieldSampler: TN
Matrix: Water

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Dissolved, Radionuclides - Suspended, and Radionuclides - Total.

These results apply only to the samples tested.

RL - Reporting Limit

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Alkalinity

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/17/11 13:45	Alkalinity, Total (As CaCO3)	ND	5					

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/17/11 13:36	Alkalinity, Total (As CaCO3)	597	5	607		98.5	90 - 110	

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001B	06/17/11 22:54	Alkalinity, Bicarbonate as HCO3	243	5	240	1.33		20	
		Alkalinity, Carbonate as CO3	ND	5	ND			20	
		Alkalinity, Total (As CaCO3)	205	5	203	0.835		20	

Conductivity

Sample Type **MBLK** Units: µmhos/cm

Sample ID	RunNo: 71425	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/23/11 17:03	Electrical Conductivity	ND	5					

Sample Type **LCS** Units: µmhos/cm

Sample ID	RunNo: 71425	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/23/11 16:53	Electrical Conductivity	1100	5	1000		110	90 - 110	

Sample Type **DUP** Units: µmhos/cm

Sample ID	RunNo: 71425	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106263-003AD	06/23/11 17:36	Electrical Conductivity	3610	5	3610	0		20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Dissolved Mercury by EPA 245.1 - Water

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

Sample ID	RunNo: 71344	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LRB	06/21/11 11:13	Mercury	ND	0.001					

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

Sample ID	RunNo: 71344	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/21/11 11:11	Mercury	0.002	0.001	0.002		98.7	85 - 115	

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

Sample ID	RunNo: 71344	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106354-001E	06/21/11 12:05	Mercury	0.002	0.001	0.00244	ND	97.4	70 - 130	

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

Sample ID	RunNo: 71344	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106354-001E	06/21/11 12:07	Mercury	0.002	0.001	0.002	0.287	97.7	20	

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

Sample ID	RunNo: 71344	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001E	06/21/11 12:03	Mercury	ND	0.001	ND			20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 71258	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/20/11 13:11	Aluminum	ND	0.1					
		Boron	ND	0.1					
		Chromium	ND	0.01					
		Iron	ND	0.05					
		Manganese	ND	0.02					
		Nickel	ND	0.01					
		Zinc	ND	0.01					

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

Sample ID	RunNo: 71258	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/20/11 13:13	Aluminum	1.0	0.1	1		99.0	85 - 115	
		Boron	1.0	0.1	1		98.3	85 - 115	
		Chromium	1.01	0.01	1		101	85 - 115	
		Iron	0.97	0.05	1		97.1	85 - 115	
		Manganese	0.99	0.02	1		98.6	85 - 115	
		Nickel	0.99	0.01	1		99.3	85 - 115	
		Zinc	0.98	0.01	1		98.4	85 - 115	

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

Sample ID	RunNo: 71258	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106381-001CS	06/20/11 13:45	Aluminum	0.5	0.1	0.5	ND	108	70 - 130	
		Boron	0.6	0.1	0.5	ND	107	70 - 130	
		Chromium	0.53	0.01	0.5	ND	107	70 - 130	
		Iron	0.51	0.05	0.5	ND	103	70 - 130	
		Manganese	0.61	0.02	0.5	0.08	106	70 - 130	
		Nickel	0.51	0.01	0.5	ND	103	70 - 130	
		Zinc	0.52	0.01	0.5	ND	104	70 - 130	

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

Sample ID	RunNo: 71258	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106381-001CSD	06/20/11 13:47	Aluminum	0.5	0.1	0.5	1.45	106	20	
		Boron	0.6	0.1	0.6	0.553	106	20	
		Chromium	0.52	0.01	0.53	1.97	105	20	
		Iron	0.50	0.05	0.51	1.89	101	20	
		Manganese	0.60	0.02	0.61	1.71	104	20	
		Nickel	0.50	0.01	0.51	2.67	99.9	20	
		Zinc	0.51	0.01	0.52	2.67	101	20	

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ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
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Dissolved Metals by ICP - EPA 200.7 - Water

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

Sample ID	RunNo: 71258	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106380-003CD	06/20/11 13:40	Aluminum	ND	0.1	ND			20	
		Boron	0.2	0.1	0.2	1.41		20	
		Chromium	ND	0.01	ND			20	
		Iron	ND	0.05	ND			20	
		Manganese	ND	0.02	ND			20	
		Nickel	ND	0.01	ND			20	
		Zinc	ND	0.01	ND			20	

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 71207	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/17/11 13:03	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: 71207	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/17/11 12:59	Arsenic	0.103	0.005	0.1		103	85 - 115	
		Barium	ND	0.5	0.1		98.8	85 - 115	
		Cadmium	0.102	0.002	0.1		102	85 - 115	
		Copper	0.10	0.01	0.1		97.5	85 - 115	
		Lead	0.10	0.02	0.1		98.4	85 - 115	
		Molybdenum	0.10	0.02	0.1		102	85 - 115	
		Selenium	0.104	0.005	0.1		104	85 - 115	
		Uranium	0.099	0.001	0.1		98.5	85 - 115	
		Vanadium	0.10	0.02	0.1		101	85 - 115	

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ANALYTICAL QC SUMMARY REPORT

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Report ID: S1106354001

Dissolved Metals by ICPMS EPA 200.8 - Water

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

Sample ID	RunNo: 71207	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106331-001DS	06/17/11 17:11	Arsenic	1.14	0.005	1.1	ND	103	70 - 130	
		Barium	1.2	0.5	1.1	ND	104	70 - 130	
		Cadmium	1.12	0.002	1.1	ND	102	70 - 130	
		Copper	1.78	0.01	1.1	0.77	92.6	70 - 130	
		Lead	1.04	0.02	1.1	ND	94.6	70 - 130	
		Molybdenum	1.12	0.02	1.1	ND	102	70 - 130	
		Selenium	1.16	0.005	1.1	ND	106	70 - 130	
		Uranium	1.05	0.001	1.1	ND	95.6	70 - 130	
		Vanadium	1.08	0.02	1.1	ND	98.4	70 - 130	

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

Sample ID	RunNo: 71207	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106331-001DMSD	06/17/11 17:15	Arsenic	1.14	0.005	1.14	0.0614	103	20	
		Barium	1.2	0.5	1.2	0.665	103	20	
		Cadmium	1.12	0.002	1.12	0.639	102	20	
		Copper	1.79	0.01	1.78	0.341	93.2	20	
		Lead	1.04	0.02	1.04	0.0797	94.5	20	
		Molybdenum	1.11	0.02	1.12	0.900	101	20	
		Selenium	1.16	0.005	1.16	0.209	105	20	
		Uranium	1.05	0.001	1.05	0.243	95.4	20	
		Vanadium	1.09	0.02	1.08	0.743	99.2	20	

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

Sample ID	RunNo: 71207	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106331-001DD	06/17/11 17:07	Arsenic	ND	0.005	ND			20	
		Barium	ND	0.5	ND			20	
		Cadmium	ND	0.002	ND			20	
		Copper	0.77	0.01	0.77	0.131		20	
		Lead	ND	0.02	ND			20	
		Molybdenum	ND	0.02	ND			20	
		Selenium	ND	0.005	ND			20	
		Uranium	ND	0.001	ND			20	
		Vanadium	ND	0.02	ND			20	

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Work Order: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Fluoride by SM 4500

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/17/11 13:45	Fluoride	ND	0.1					

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/17/11 13:36	Fluoride	3.0	0.1	2.71		109	90 - 110	

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106318-1SPK	06/17/11 17:49	Fluoride	2.6	0.1	2.5	ND	105	80 - 120	

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106337-001A	06/17/11 20:07	Fluoride	0.7	0.1	0.7	0		20	

Gross Alpha, Beta by SM 7110B

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

Sample ID	RunNo: 71922	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-186	07/06/11 21:07	Gross Alpha (Dissolved)	ND	2					
		Gross Beta (Dissolved)	ND	3					

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

Sample ID	RunNo: 71922	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-186	07/06/11 21:07	Gross Alpha (Dissolved)	86	2	73.6		117	76.7 - 133	
		Gross Beta (Dissolved)	132	3	126		105	76.7 - 133	

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

Sample ID	RunNo: 71922	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106549-002GMS	07/07/11 20:24	Gross Alpha (Dissolved)	122	2	73.6	23	134	47.8 - 153	
		Gross Beta (Dissolved)	135	3	126	5	103	47.8 - 153	

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

Sample ID	RunNo: 71922	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106549-001GDUP	07/07/11 20:24	Gross Alpha (Dissolved)	13	2	13	0.677		20	
		Gross Beta (Dissolved)	9	3	8	8.29		20	

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ANALYTICAL QC SUMMARY REPORT

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Anions by ION Chromatography

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

Sample ID	RunNo: 71880	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	07/06/11 9:55	Chloride	ND	1					
		Sulfate	ND	1					

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

Sample ID	RunNo: 71880	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DIONEX	07/06/11 9:28	Chloride	30	1	30		98.2	90 - 110	
		Sulfate	140	1	150		93.1	90 - 110	

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

Sample ID	RunNo: 71880	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1107053-001ASPK	07/07/11 9:57	Chloride	32	1	30	3	93.9	80 - 120	
		Sulfate	546	1	240	315	96.3	80 - 120	

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

Sample ID	RunNo: 71880	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1107053-001A	07/07/11 9:43	Chloride	3	1	3	7.84		20	
		Sulfate	284	1	315	9.59		20	

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**ANALYTICAL QC SUMMARY REPORT**

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Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

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

Sample ID	RunNo: 71256	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/20/11 13:11	Calcium	ND	1					
		Magnesium	ND	1					
		Potassium	ND	1					
		Sodium	ND	1					

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

Sample ID	RunNo: 71256	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CAT LCS IML3	06/20/11 13:15	Calcium	41	1	40		102	85 - 115	
		Magnesium	40	1	40		101	85 - 115	
		Potassium	41	1	40		103	85 - 115	
		Sodium	39	1	40		96.6	85 - 115	

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

Sample ID	RunNo: 71256	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106384-003AS	06/20/11 15:15	Calcium	79	1	25	58	85.3	70 - 130	
		Magnesium	76	1	25	52	95.8	70 - 130	
		Potassium	45	1	25	16	113	70 - 130	
		Sodium	62	1	25	37	102	70 - 130	

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

Sample ID	RunNo: 71256	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106384-003ASD	06/20/11 15:17	Calcium	81	1	79	2.13	92.1	20	
		Magnesium	78	1	76	2.40	103	20	
		Potassium	47	1	45	4.71	121	20	
		Sodium	64	1	62	3.08	110	20	

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

Sample ID	RunNo: 71256	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106384-002AD	06/20/11 15:10	Calcium	72	1	72	0.553		20	
		Magnesium	67	1	68	1.30		20	
		Potassium	28	1	28	0.538		20	
		Sodium	87	1	87	0.743		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: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Nitrogen, Ammonia (as N)

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

Sample ID	RunNo: 71528	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLANK	06/23/11 14:24	Nitrogen, Ammonia (As N)	ND	0.1					

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

Sample ID	RunNo: 71528	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/23/11 14:26	Nitrogen, Ammonia (As N)	8.8	0.1	8.93		98.6	90 - 110	

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

Sample ID	RunNo: 71528	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106354-001D	06/23/11 16:40	Nitrogen, Ammonia (As N)	8.6	0.1	10	ND	85.8	80 - 120	

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

Sample ID	RunNo: 71528	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001D	06/23/11 16:39	Nitrogen, Ammonia (As N)	ND	0.1	ND			20	

Nitrogen, Nitrate-Nitrite (as N)

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

Sample ID	RunNo: 71564	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	06/28/11 10:34	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1					

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

Sample ID	RunNo: 71564	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
QC	06/28/11 11:42	Nitrogen, Nitrate-Nitrite (as N)	7.0	0.1	7.69		90.7	90 - 110	

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

Sample ID	RunNo: 71564	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106479-001D	06/28/11 11:25	Nitrogen, Nitrate-Nitrite (as N)	11.1	0.1	10	ND	111	80 - 120	

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

Sample ID	RunNo: 71564	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106479-001D	06/28/11 11:24	Nitrogen, Nitrate-Nitrite (as N)	ND	0.1	ND			20	

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 72064	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/08/11 17:25 Lead 210 (Suspended) ND 1

Sample ID	RunNo: 72065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/06/11 17:29 Polonium 210 (Suspended) ND 1

Sample ID	RunNo: 72241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/01/11 16:01 Polonium 210 (Dissolved) ND 1

Sample ID	RunNo: 72288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-173 07/06/11 11:33 Lead 210 (Dissolved) ND 1

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

Sample ID	RunNo: 72064	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 07/08/11 17:25 Lead 210 (Suspended) 12 1 13 95.5 60.3 - 141

Sample ID	RunNo: 72065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 PO 07/06/11 17:29 Polonium 210 (Suspended) 5 1 4.02 123 60.3 - 141

Sample ID	RunNo: 72241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 PO 07/01/11 16:01 Polonium 210 (Dissolved) 5 1 4.02 118 60.3 - 141

Sample ID	RunNo: 72288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-173 07/06/11 11:33 Lead 210 (Dissolved) 12 1 13 92.8 60.3 - 141

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

Sample ID	RunNo: 72064	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106388-002EMS 07/08/11 17:25 Lead 210 (Suspended) 13 1 13 ND 101 62.4 - 132

Sample ID	RunNo: 72065	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106388-002EMS 07/06/11 17:29 Polonium 210 (Suspended) 9 1 13 ND 71.1 62.4 - 132

Sample ID	RunNo: 72241	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106380-001FMS 07/01/11 16:01 Polonium 210 (Dissolved) 5 1 13 ND 38.2 62.4 - 132

Sample ID	RunNo: 72288	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106380-001FMS 07/06/11 11:33 Lead 210 (Dissolved) 12 1 13 ND 93.3 62.4 - 132

- 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: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Lead 210 and Polonium 210

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

Sample ID	RunNo: 72064	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/08/11 13:08 Lead 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 72065	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/06/11 19:13 Polonium 210 (Suspended) ND 1 ND 20

Sample ID	RunNo: 72241	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/01/11 16:01 Polonium 210 (Dissolved) ND 1 ND 20

Sample ID	RunNo: 72288	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106380-003EDUP 07/06/11 11:33 Lead 210 (Dissolved) ND 1 ND 20

Radium 228

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

Sample ID	RunNo: 72547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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MB11-199B 07/22/11 16:12 Radium 228 (Dissolved) ND 1

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

Sample ID	RunNo: 72547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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LCS11-199B 07/22/11 16:12 Radium 228 (Dissolved) 10 1 10.2 94.7 74.9 - 122

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

Sample ID	RunNo: 72547	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
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S1106318-001GMS 07/22/11 16:12 Radium 228 (Dissolved) 12 1 10.2 1 106 48.4 - 167

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

Sample ID	RunNo: 72547	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
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S1106320-001GDUP 07/22/11 16:12 Radium 228 (Dissolved) ND 1 ND 20

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: AUC LLC
Work Order: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Radium 226 by SM 7500

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

Sample ID	RunNo: 71894	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-178	07/05/11 15:35	Radium 226 (Dissolved)	ND	0.2					

Sample ID	RunNo: 71902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-180	07/06/11 10:32	Radium 226 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 71894	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-178	07/05/11 15:35	Radium 226 (Dissolved)	4.3	0.2	5		85.0	62.5 - 125	

Sample ID	RunNo: 71902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-180	07/06/11 10:32	Radium 226 (Suspended)	4.7	0.2	5		93.0	62.5 - 125	

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

Sample ID	RunNo: 71894	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106388-004EMS	07/05/11 17:51	Radium 226 (Dissolved)	5.0	0.2	5	ND	101	41.6 - 146	

Sample ID	RunNo: 71902	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106354-001GMS	07/06/11 14:12	Radium 226 (Suspended)	5.0	0.2	5	0.2	95.1	41.6 - 146	

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

Sample ID	RunNo: 71894	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106388-006EDUP	07/05/11 17:51	Radium 226 (Dissolved)	0.4	0.2	0.4	2.10		20	

Sample ID	RunNo: 71902	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106249-001GDUP	07/06/11 14:12	Radium 226 (Suspended)	0.3	0.2	0.3	2.42		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: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

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

Sample ID	RunNo: 71725	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-172	06/27/11 8:11	Thorium 230 (Dissolved)	ND	0.2					

Sample ID	RunNo: 72152	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB11-179	07/11/11 8:46	Thorium 230 (Suspended)	ND	0.2					

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

Sample ID	RunNo: 71725	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-172	06/27/11 8:11	Thorium 230 (Dissolved)	13	0.2	12		104	67.1 - 134	

Sample ID	RunNo: 72152	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS11-179	07/11/11 8:46	Thorium 230 (Suspended)	12	0.2	12		94.6	67.1 - 134	

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

Sample ID	RunNo: 71725	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106250-001GDUP	06/27/11 12:52	Thorium 230 (Dissolved)	ND	0.2	ND			20	

Sample ID	RunNo: 72152	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001GDUP	07/11/11 8:46	Thorium 230 (Suspended)	ND	0.2	ND			20	

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

Sample ID	RunNo: 71609	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB-R71609	06/17/11 0:00	Radon-222	ND	50					L

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

Sample ID	RunNo: 71609	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS-R71609	06/17/11 0:00	Radon-222	22400	100	22500		99.6	75 - 125	L

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

Sample ID	RunNo: 71609	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001B	06/17/11 0:00	Radon-222	250	50	310	19.2		20	L

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

Sample ID	RunNo: 71261	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MBLK DISS/CAT	06/20/11 13:11	Silica as SiO2	ND	0.1					

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

Sample ID	RunNo: 71261	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DISS LCS Q	06/20/11 13:13	Silica as SiO2	2.2	0.1	2.14		101	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: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Solids By SM 2540

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

Sample ID	RunNo: 71401	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
DI	06/20/11 13:10	Total Dissolved Solids (180)	ND	10					

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

Sample ID	RunNo: 71401	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
CONTROL	06/20/11 13:15	Total Dissolved Solids (180)	220	10	226		95.6	90 - 110	

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

Sample ID	RunNo: 71401	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106337-004A	06/20/11 14:55	Total Dissolved Solids (180)	1320	10	1320	0.302		20	

Total (200.2) Metals by EPA 200.7 ICP - Water

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

Sample ID	RunNo: 71314	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK 6/21 TOT -5217	06/21/11 15:48	Iron	ND	0.05					
		Manganese	ND	0.02					

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

Sample ID	RunNo: 71314	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS 6/21 TOT -5217	06/21/11 15:51	Iron	0.47	0.05	0.5		93.9	85 - 115	
		Manganese	0.19	0.02	0.2		93.8	85 - 115	

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

Sample ID	RunNo: 71314	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106388-002DS	06/21/11 16:00	Iron	1.59	0.05	0.5	1.12	93.0	70 - 130	
		Manganese	0.32	0.02	0.2	0.13	96.4	70 - 130	

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

Sample ID	RunNo: 71314	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106388-001ED	06/21/11 15:55	Iron	0.16	0.05	0.16	0.957		20	
		Manganese	0.02	0.02	0.02	0.985		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: S1106354
Project: Reno Creek Project

Date: 7/26/2011
Report ID: S1106354001

Suspended Natural Uranium

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

Sample ID	RunNo: 71377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
INIT CAL BLANK	06/22/11 11:47	Uranium Suspended	ND	0.0003					

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

Sample ID	RunNo: 71377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	06/22/11 18:36	Uranium Suspended	0.0964	0.0003	0.1		96.4	85 - 115	

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

Sample ID	RunNo: 71377	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1106318-001HS	06/22/11 18:56	Uranium Suspended	1.11	0.0003	1.1	ND	101	70 - 130	

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

Sample ID	RunNo: 71377	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1106318-001HMSD	06/22/11 19:00	Uranium Suspended	1.13	0.0003	1.11	1.48	102	20	

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

Sample ID	RunNo: 71377	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106318-001HD	06/22/11 18:44	Uranium Suspended	ND	0.0003	ND			20	

pH Water

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
ATQC	06/17/11 13:36	pH	8.5	0.1	8.63		99.0	90 - 110	

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

Sample ID	RunNo: 71215	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1106354-001B	06/17/11 22:54	pH	8.4	0.1	8.4	0.509		20	

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



Inter-Mountain Labs
 Sheridan, WY and Gillette, WY
 1673 Terra Ave
 Sheridan, WY 82801
 (307) 972-8845

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- CHAIN OF CUSTODY RECORD -

Client Name AUC LLC		Project Identification Reno Creek Project		Sampler (Signature/Printed) <i>Traci Wilkerson</i>		Telephone #	
Report Address pcavendor@auc-llc.com; mickerson@treccorp.com; jshriver@treccorp.com		Contact Name Traci Wilkerson		Signature/Printed <i>Traci Wilkerson</i>			
Invoice Address AUC LLC <i>951 W. Pioneer Ct. Ste 385 Casper WY 82401</i>		Email Traci.Wilkerson@treccorp.com		Purchase Order #		Quote #	
Phone 307-265-0696		Matrix		# of Containers		ANALYSES / PARAMETERS	
LAB ID		DATE SAMPLED		TIME		REMARKS	
(Lab Use Only)		SAMPLED		SAMPLE IDENTIFICATION		See Attached Table 1 (4.14, Guide 8, Radon 222)	
1		2/14/11		8:00 AM UMI-003-110616 W		See Attached Table 2 (Air Particulate)	
2		2/14/11		8:00 AM UMI-003-110616 W		See Attached Table 3 (Vegetation)	
3						See Attached Table 4 (Sediment)	
4						See Attached Table 5 (Soil)	
5						See Attached Table 8 WYPDES Discharge	
6						See Attached Table 9 (Blanks)	
7							
8							
9							
10							
11							
12							
13							
14							
LAB COMMENTS		DATE		TIME		DATE	
6.9		2/14/11		1500		2/14/11	
Relinquished By (Signature/Printed)		Received By (Signature/Printed)					
<i>Traci Wilkerson</i>		<i>Miss D. McLeod</i>					
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		<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? <input type="checkbox"/> Program (SDWA, NPDES,...) <input type="checkbox"/> PWSID / Permit # <input type="checkbox"/> Chlorinated? Sample Disposal: Lab	
WT		SL		SD		TB	
OT		OT		OT		OT	
ADDITIONAL REMARKS							