

**ACCUTEST®**

Laboratories

formerly Evergreen Analytical, Inc.#1944493
Complaint # 200212599

July 10, 2009

Peter Gintautas
Colorado Oil & Gas Conservation Comm.
1120 Lincoln St #801
Denver, CO 80203

Lab Work Order: 09-4548
Client Project ID: Complaint 200212599

Dear Peter Gintautas:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary.

THE INVOICE WILL BE MAILED FROM OUR NEW JERSEY OFFICE UNDER SEPARATE COVER.

The enclosed data for testing performed at Accutest Laboratory (formerly Evergreen Analytical) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

Accutest will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Accutest Laboratories. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,

Joseph J'Egry IV/ Tiffany Pham
Quality Assurance

WORK ORDER Summary**Evergreen Analytical, Inc.****09-4548****Rpt To:** Peter Gintautas**Email To:** peter.gintautas@state.co.usColorado Oil & Gas Conservation
Comm.

6/23/2009 1:28:08 PM

1120 Lincoln St #801

Client Project ID: Complaint 200212599

Denver, CO 80203

QC Level: Level I

(719) 846-3091

Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-4548-01A	York WW	Water	6/22/09 0901	6/23/09	8260_W *	8260B: VOA HSL	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	7/06/09
09-4548-01B	York WW	Water	6/22/09 0901	6/23/09	MEEP_W *	RSK175M: MEE	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	7/06/09
09-4548-01C	York WW	Water	6/22/09 0901	6/23/09	200.7_D *	200.7: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	12/19/09
09-4548-01C	York WW	Water	6/22/09 0901	6/23/09	200.8_D *	200.8: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	12/19/09
09-4548-01D	York WW	Water	6/22/09 0901	6/23/09	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	6/24/09
09-4548-01D	York WW	Water	6/22/09 0901	6/23/09	C/A_BAL	Cation / Anion Balance calculation	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	
09-4548-01E	York WW	Water	6/22/09 0901	6/23/09	ALK_WGRP *	Alkalinity	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	7/06/09
09-4548-01E	York WW	Water	6/22/09 0901	6/23/09	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	7/20/09
09-4548-01E	York WW	Water	6/22/09 0901	6/23/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	7/20/09
09-4548-01E	York WW	Water	6/22/09 0901	6/23/09	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	6/23/09
09-4548-01E	York WW	Water	6/22/09 0901	6/23/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	6/29/09
09-4548-01F	York WW	Water	6/22/09 0901	6/23/09	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	12/19/09
09-4548-01F	York WW	Water	6/22/09 0901	6/23/09	SAR_W	Sodium Adsorption Ratio for Water	<input type="checkbox"/>	<input type="checkbox"/>	7/08/09	12/19/09

Definitions: * - Test Code has a Select List



Paragon Analytics

A Division of DataChem Laboratories, Inc.

225 Commerce Drive Fort Collins, CO 80524

800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID)

Chain-of-Custody

Date 7/22/09 Page 1 of 1

Originator: Retain pink copy!

Project Name/No.: Sampler(s): Gintautas Turnaround (circle one) Standard or Rush (Due) Dispose: Date 30 or Return to Client

Report To: Peter Gintautas
Phone: 719-846-3091
Fax:
E-mail: peter.gintautas@state.co.us
Company: Colo. Oil & Gas Cons. Comm.
Address:

Circle method (right); provide additional information as needed (comments).

Sample ID	Date	Time *	Lab ID	Matrix	Preservative (indicate type... HCl, etc.)	No. of Containers	VOCs	BTEX (Benzene, Toluene, Ethylbenzene, Xylenes)	SVOCs	OC Pesticides	PCBs	Herbicides	Explosives	TCLP Organics SW1311	TCLP Metals SW1311 Hg	Total Metals by ICP Hg	Dissolved Metals by ICP Hg	Total Metals by ICP/MS	Dissolved Metals by ICP/MS	Alkaline Digest? Y / N	Inorganic Anions	Solids:	pH	TPH Conductivity	Gross Alpha / Beta	Actinides by Paragon SOP	Tritium	Total Alpha-Emitting Radium	Radium 226	Radium 228	Strontium 90 (Total RadioSr)	Gamma Isotopes	Radon 222	Other
Complaint 2002-12-599																																		
York WW	22 Jun 09	09:41		W	none	2											X	X	X	X	X	X	X											
"	22 Jun 09	09:41		W	HCl	6	X	X																										
York WW	24 Jun 09			W	none	1											X	X	X	X	X	X												
Total Recoverable metals on suspension																																		
							A	B									C	C	E	D	E	E	E											

* Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter

Comments:

Anions = Br, Cl, F, NO₂, NO₃, SO₄
200.7 = Ba, Be, B, Ca, Cr, Co, Cu, Fe, Li, Mg, Mn, Ni, K, Na, Sr, Zn
200.8 = Sb, As, Cd, Pb, Mo, Se, Ag, Te, U
6010 on filtered sediment
= Al, Sb, As, Ba, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, K, Na, Zn

Relinquished By:

Signature: [Signature]
Printed Name: Peter Gintautas
Date: 22 Jun 2009 Time: 16:45
Company: LOGIC

Received By:

Signature: [Signature]
Printed Name: J. Decker
Date: 6/23/09 Time: 1:00
Company:

Relinquished By:

Signature: [Signature]
Printed Name: [Signature]
Date: Time: [Signature]
Company:

Received By:

Signature: [Signature]
Printed Name: J. Decker
Date: 6/23/09 Time: 1:00
Company:

Andrea

From: "Shea Greiner" <shea@evergreenanalytical.com>
To: "Andrea Engelbrecht" <andrea@evergreenanalytical.com>
Sent: Tuesday, June 23, 2009 1:21 PM
Subject: Fw: sample I did not ship yesterday

----- Original Message -----

From: Gintautas, Peter
To: Shea Greiner
Sent: Tuesday, June 23, 2009 5:36 AM
Subject: sample I did not ship yesterday

I inadvertently left out one bottle (collected by the homeowner three months ago) from the shipment I sent yesterday. Please not on the receipt that the tests requested for that sample can be omitted.

Peter Gintautas

Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
719-846-3091
719-679-1326 (cell)
719-846-3384
colorado.gov/cogcc
peter.gintautas@state.co.us

6/23/2009

Evergreen Analytical, Inc.

Date: 10-Jul-09

Lab Order: 09-4548

Client Project ID Complaint 200212599

CASE NARRATIVE

SAMPLE RECEIVING

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 2.5°C.

Sample(s) were received in good condition and in the proper container.

The pH samples were received outside of holding time.

Sample(s) were preserved properly.

VOC sample(s) were marked as preserved on the bottle labels.

VOC sample(s) were received with no headspace present. JD/JE

QUALITY ASSURANCE (QA)

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. Analyses of discharge samples meet the requirements of 40 CFR Part 136 unless otherwise explained. JE

CLIENT SERVICES

There are no anomalies to report. EKH Due to equipment failures and holding times, the 8260 samples were sent to Accutest New Jersey for analysis on June 29th. SG

GENERAL CHEMISTRY

Method E300.0: The sample has a matrix interference for Nitrate-N, which required dilution of the sample. This raised the reporting limit for Nitrate-N. There are no other anomalies to report. JML/MM/JE

METALS ANALYSIS

Method 200.7_D: The matrix spike and matrix spike duplicate (MS/MSD; on another clients sample) recoveries for several analytes are outside the QC limits. All recoveries of these analytes for the laboratory control spike (LCS) are within QC limits, proving the analysis is in control. There are no other anomalies to report. JT/JE

Method 200.8_D: There are no anomalies to report. JT

Evergreen Analytical, Inc.**Date:** 10-Jul-09**Lab Order:** 09-4548**Client Project ID** Complaint 200212599**CASE NARRATIVE****GAS CHROMATOGRAPHY**

Method RSK-175: The laboratory control spike (LCS/LCSD) and matrix spike (MS) recoveries for Ethene are above the QC limits. Since the bias for Ethene is high and the sample is non-detect for this analyte, no further action is required. There are no other anomalies to report. VM/JE

Accutest LabLink@13:35 06-Jul-2009 Preliminary Data

Sample Summary

Accutest Mountain States

Job No: D4548

COGCCCCOD: COGCC Denver, CO
Project No: Complaint 200212599

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D4548-1	06/22/09	09:01	06/23/09	AQ Water	YORK WW
D4548-1F	06/22/09	09:01	06/23/09	AQ Water	YORK WW

Report of Analysis

Page 1 of 2

Client Sample ID:	YORK WW	Date Sampled:	06/22/09
Lab Sample ID:	D4548-1	Date Received:	06/23/09
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	COGCCCCOD: COGCC Denver, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3A65932.D	1	07/02/09	KPP	n/a	n/a	V3A2823
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA HSL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.9	ug/l	
71-43-2	Benzene	2.9	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	4.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.30	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.6	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.74	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.26	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.39	ug/l	
75-00-3	Chloroethane	ND	1.0	0.37	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	1.4	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.29	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.25	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.27	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.4	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.86	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.30	ug/l	
100-42-5	Styrene	ND	5.0	0.58	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.27	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	YORK WW	Date Sampled:	06/22/09
Lab Sample ID:	D4548-1	Date Received:	06/23/09
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	COGCCCCOD: COGCC Denver, CO		

VOA HSL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	3.8	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.23	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.24	ug/l	
108-05-4	Vinyl Acetate	ND	10	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		76-120%
17060-07-0	1,2-Dichloroethane-D4	92%		64-135%
2037-26-5	Toluene-D8	92%		76-117%
460-00-4	4-Bromofluorobenzene	87%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Job Number: D4548 Client project: Complaint 200212599

Account: COGCCCCO Colorado Oil & Gas, Denver

Project: COGCCCCO1025 COGCC Denver, CO ~~NEW PROJECT IS TUN-03~~

Report to: Peter Gintautas HC Date: 08-JUL-09 Deliv: COMDEN StateCode: CO

CHICK
Client
Project
Deliverables
Matrix
TAT
Tests
Metals SWE46

Sample Number	Client ID	Site	Matrix	Reactive Date	Collect Date/Time	Due TAT Date	Ship By	Product List
---------------	-----------	------	--------	---------------	-------------------	--------------	---------	--------------

D4548-1	YORK WW	WW		23-JUN-09	23-JUN-09 09:01 15	08-JUL-09		BRO, CHL, ENERGY, F, METDIG, MISC, NO2NO2, NO3NO3, PH, SAR, SCOM, SO4, TDS, VS01SDGHEE, VS260HSL, XCARBICALX
D4548-1P	YORK WW	WW		23-JUN-09	22-JUN-09 09:01 15	08-JUL-09		AGMS, ASMS, S, BA, BE, CA, CDMS, CO, CR, CU, FE, FILTERMET, F, LI, METDIG, NG, NW, WOMS, NA, NI, PBMS, SBMS, SEMS, SR, TLMS, UMS, ZN

Comments: D4548-1
Misc: Cation/ Anion Balance Calculation
Comments: D4548-1P
metals-epa

Package AQ XCARBICALX = ALK, BIC, CAR

ENGLIF Address:
Peter Gintautas
Colorado Oil & Gas, Denver
1120 Lincoln Street #801
Denver, CO 80203 (303) 846-3091
peter.gintautas@state.co.us

REPORTING Address:
Peter Gintautas
Colorado Oil & Gas, Denver
213 Corundum Road
Trinidad, CO 81082 (719) 846-3091

INVOICE1UD Address:
Margaret Ash
Colorado Oil & Gas, Denver
1120 Lincoln Street #801
Denver, CO 80203 (303) 894-2100

PO Number:

2 UIALS

2283

3.2°
reling by: Fedex rec'd by: PDR 7/1/09 10:30

Page 1

Login:	_____	Date:	_____
Login Review:	_____	Date:	_____
CS Review:	_____	Date:	_____
ID Review:	_____	Date:	_____

D4548: Chain of Custody

Page 1 of 2



Accutest Laboratories Sample Receipt Summary

010

Accutest Job Number: D4548 Client: Immediate Client Services Action Required: No
Date / Time Received: 7/1/2009 Delivery Method: Client Service Action Required at Login: No
Project: No. Coolers: 1 Airbill #'s:

Cooler Security Y or N Y or N
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature Y or N
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation Y or N N/A
1. Trip Blank present / cooler: ☒ ☐
2. Trip Blank listed on COC: ☒ ☐
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☐ ☐ ☒

Sample Integrity - Documentation Y or N
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition Y or N
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Accutest Laboratories
V: 732.320.0200

2235 US Highway 130
F: 732.320.3490

Dayton, New Jersey
www.accutest.com

D4548: Chain of Custody
Page 2 of 2

Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

Client Sample ID: York WW
Client Project ID: Complaint 200212599
Date Collected: 6/22/09
Date Received: 6/23/09

Lab Work Order: 09-4548
Lab Sample ID: 09-4548-01
Sample Matrix: Water

RSKSOP-175M HEADSPACE

Method: RSKSOP175M

Prep Method: RSKSOP175M

Date Prepared: 6/29/09
Date Analyzed: 6/29/09

Lab File ID: FB236
Method Blank: GB062909

Dilution Factor: 1
Lab Fraction ID: 09-4548-01B

Analytes	CAS Number	Result	LQL	Units
Ethane	74-84-0	0.037	0.0016	mg/L
Ethene	74-85-1	U	0.0024	mg/L

Date Prepared: 6/29/09
Date Analyzed: 6/29/09

Lab File ID: FB240
Method Blank: GB062909

Dilution Factor: 25
Lab Fraction ID: 09-4548-01B

Analytes	CAS Number	Result	LQL	Units
Methane	74-82-8	5.1	0.020	mg/L

VM

Analyst



Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
E - Extrapolated value. Value exceeds calibration range
H - Sample analysis exceeded analytical holding time
J - Indicates an estimated value when the compound is detected, but is below the LQL
S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
X - See case narrative
* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 06/29/09

Data File : F:\DATA\062909\FB240.D

Vial: 16

Acq On : 29 Jun 2009 12:25 pm

Operator: virginia

Sample : 09-4548-01B

Inst : FID4

Misc : SAMP, MEEP_W, 25, 20uL

Multiplr: 1.00

IntFile : autoint1.e

Quant Time: Jun 29 13:44 2009 Quant Results File: GAS0324B.RES

Quant Method : C:\MSDCHEM\2\METHODS\GAS0324B.M (Chemstation Integrator)

Title : RSK 175 Methane, Ethene, Ethane, and Propane

Last Update : Wed Jun 17 09:06:45 2009

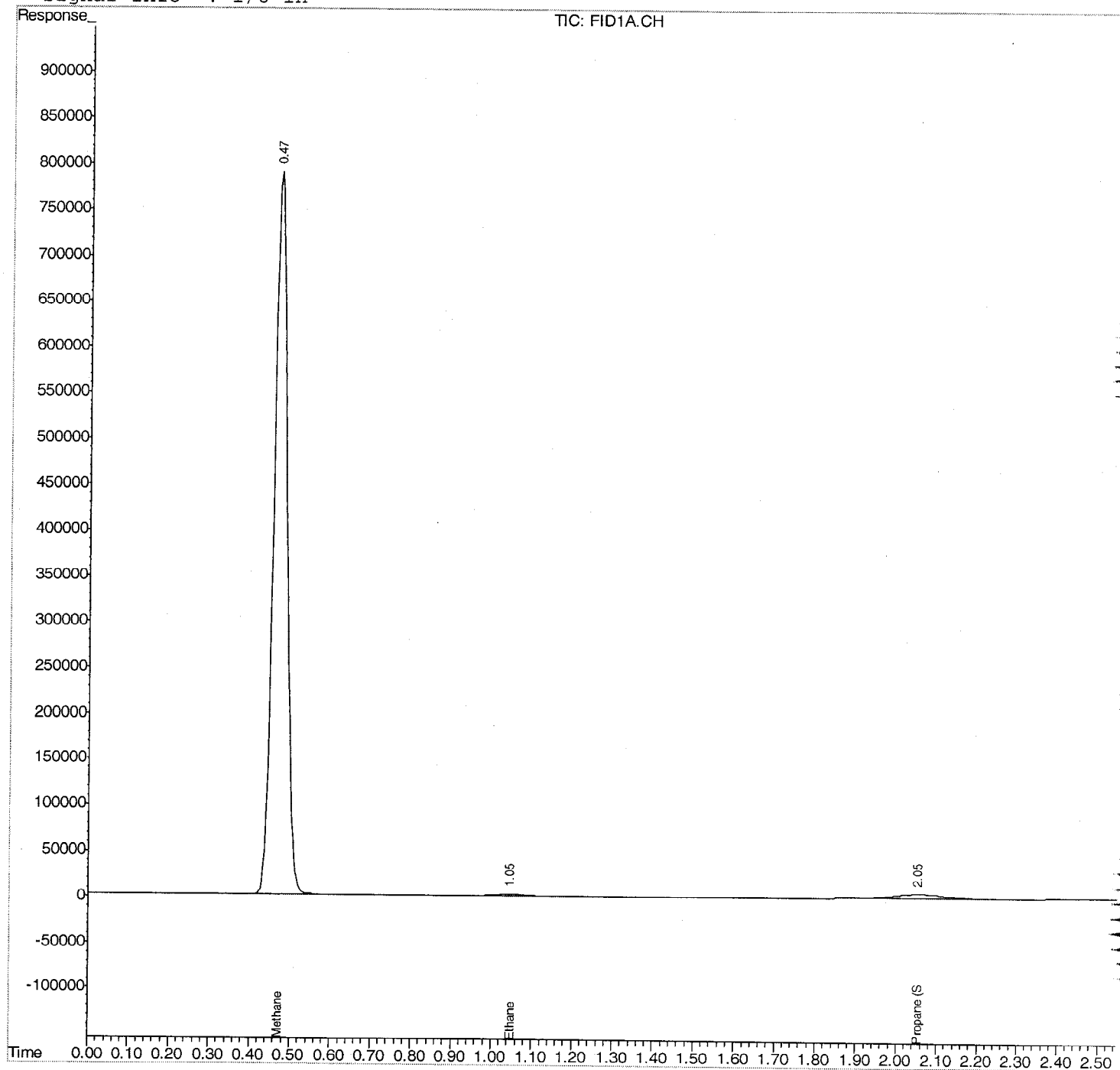
Response via : Multiple Level Calibration

DataAcq Meth : GAS.M

Volume Inj. : 100ul

Signal Phase : Porapak Q 80/100

Signal Info : 1/8 in



EVERGREEN ANALYTICAL, INC.
 4036 Youngfield St., Wheat Ridge, CO 80033
 (303)425-6021

Anion-Cation (Ion) Balance - Method 1030, Standard Methods, 20th Ed.

EAL Sample ID	09-4548-01		09-		09-		09-		09-	
Client Sample ID	York WW									
Sample Result	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L
<i>Anions</i>										
Cl	7.1	0.200		0.000		0.000		0.000		0.000
SO ₄	2.9	0.060		0.000		0.000		0.000		0.000
HCO ₃ as CaCO ₃	311	6.214		0.000		0.000		0.000		0.000
CO ₃ as CaCO ₃	18.1	0.362		0.000		0.000		0.000		0.000
NO ₃	0	0.000		0.000		0.000		0.000		0.000
NO ₃ as N	0	0.000		0.000		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
Anions Total		6.837		0.000		0.000		0.000		0.000
<i>Cations</i>										
Ca	1.2	0.060		0.000		0.000		0.000		0.000
Mg	0.00	0.000		0.000		0.000		0.000		0.000
K	0.63	0.016		0.000		0.000		0.000		0.000
Na	151	6.568		0.000		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
Cations Total		6.644		0.000		0.000		0.000		0.000
Ion Balance										
% Difference		1.43								

$$\% \text{ difference} = 100 \times \frac{(\text{sum cations} - \text{sum anions})}{(\text{sum cations} + \text{sum anions})}$$


 Approved

Evergreen Analytical, Inc.
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
 (303) 425-6021

Client Sample ID: York WW
Client Project ID: Complaint 200212599
Date Collected: 6/22/09
Date Received: 6/23/09

Lab Work Order: 09-4548
Lab Sample ID: 09-4548-01
Sample Matrix: Water

DISSOLVED METALS

Method: E200.7, Rev. 4.4

Prep Method: E200.7/SW3010A

Date Prepared: 6/29/09
Date Analyzed: 6/30/09

Lab File ID: 062909AM
Method Blank: MB-19704

Dilution Factor: 1
Lab Fraction ID: 09-4548-01C

Analytes	CAS Number	Result	LQL	Units
Barium	7440-39-3	0.0977	0.00200	mg/L
Beryllium	7440-41-7	U	0.000450	mg/L
Boron	7440-42-8	U	0.0200	mg/L
Calcium	7440-70-2	1.16	0.387	mg/L
Chromium	7440-47-3	U	0.0100	mg/L
Cobalt	7440-48-4	U	0.00500	mg/L
Copper	7440-50-8	U	0.00500	mg/L
Iron	7439-89-6	U	0.0700	mg/L
Magnesium	7439-95-4	U	0.150	mg/L
Manganese	7439-96-5	0.00642	0.00500	mg/L
Nickel	7440-02-0	U	0.0300	mg/L
Potassium	7440-09-7	0.634	0.340	mg/L
Sodium	7440-23-5	151	0.400	mg/L
Zinc	7440-66-6	U	0.0300	mg/L

Date Prepared: 6/29/09
Date Analyzed: 7/7/09

Lab File ID: 062709AM
Method Blank: MB-19704

Dilution Factor: 1
Lab Fraction ID: 09-4548-01C

Analytes	CAS Number	Result	LQL	Units
Lithium	7439-93-2	0.00460	0.00200	mg/L
Strontium	7440-24-6	0.0454	0.000500	mg/L


 Analyst


 Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
 E - Extrapolated value. Value exceeds calibration range
 H - Sample analysis exceeded analytical holding time
 J - Indicates an estimated value when the compound is detected, but is below the LQL
 S - Spike Recovery outside accepted limits
 U - Compound analyzed for but not detected
 X - See case narrative
 * - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: NA - Not Applicable
 LQL - Lower Quantitation Limit
 Surr - Surrogate

Print Date: 07/09/09

Evergreen Analytical, Inc.
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
 (303) 425-6021

Client Sample ID: York WW
 Client Project ID: Complaint 200212599
 Date Collected: 6/22/09
 Date Received: 6/23/09

Lab Work Order: 09-4548
 Lab Sample ID: 09-4548-01
 Sample Matrix: Water

DISSOLVED METALS

Method: E200.8

Prep Method: E200.8

Date Prepared: 6/25/09	Lab File ID: 090704A.B\115SMPL.D	Dilution Factor: 1		
Date Analyzed: 7/4/09	Method Blank: MB-19662	Lab Fraction ID: 09-4548-01C		
Analytes	CAS Number	Result	LQL	Units
Antimony	7440-36-0	U	0.00200	mg/L
Arsenic	7440-38-2	U	0.00200	mg/L
Cadmium	7440-43-9	0.000642	0.000500	mg/L
Lead	7439-92-1	U	0.00100	mg/L
Molybdenum	7439-98-7	U	0.00500	mg/L
Selenium	7782-49-2	U	0.00200	mg/L
Silver	7440-22-4	U	0.000200	mg/L
Thallium	7440-28-0	U	0.00100	mg/L
Uranium	7440-61-1	U	0.00100	mg/L

DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 6/29/09	Lab File ID: 062909PM	Dilution Factor: 1		
Date Analyzed: 6/30/09	Method Blank: MB-19692	Lab Fraction ID: 09-4548-01F		
Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	1.1	0.39	mg/L
Magnesium	7439-95-4	U	0.15	mg/L
Sodium	7440-23-5	150	0.40	mg/L

SODIUM ADSORPTION RATIO

Method: USDA

Prep Method:

Date Prepared: 6/29/09	Dilution Factor: 1			
Date Analyzed: 7/7/09	Lab Fraction ID: 09-4548-01F			
Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		37	0.10	ratio


 Analyst


 Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
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 U - Compound analyzed for but not detected
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Definitions: NA - Not Applicable
 LQL - Lower Quantitation Limit
 Surr - Surrogate

Print Date: 07/09/09

Evergreen Analytical, Inc.
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

016

Client Sample ID: York WW
Client Project ID: Complaint 200212599
Date Collected: 6/22/09 0901
Date Received: 6/23/09

Lab Work Order 09-4548
Lab Sample ID: 09-4548-01
Sample Matrix: Water

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 6/23/09
Date Analyzed: 6/23/09 1543

Method Blank: MB 06/23/09

Dilution Factor: 2
Lab Fraction ID: 09-4548-01D

Analytes	CAS Number	Result	LQL	Units
Nitrate		U	0.40	mg/L

Date Prepared: 6/23/09
Date Analyzed: 6/23/09 1449

Method Blank: MB 06/23/09

Dilution Factor: 1
Lab Fraction ID: 09-4548-01D

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	7.1	0.50	mg/L
Nitrite		U	0.20	mg/L
Bromide	7647-15-6	U	0.20	mg/L
Sulfate	7778-80-2	2.9	0.50	mg/L


Analyst


Approved

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LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 6/29/09

Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

Client Sample ID: York WW
Client Project ID: Complaint 200212599
Date Collected: 6/22/09 0901
Date Received: 6/23/09

Lab Work Order 09-4548
Lab Sample ID: 09-4548-01
Sample Matrix: Water

ALKALINITY

Method: SM2320B

Prep Method:

Date Prepared: 6/25/09
Date Analyzed: 6/25/09

Lab File ID: 8
Method Blank: MBLK 062509

Dilution Factor: 1
Lab Fraction ID: 09-4548-01E

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		329	5.0	mg/L CaCO ₃
Bicarbonate		311	5.0	mg/L CaCO ₃
Carbonate		18.1	5.0	mg/L CaCO ₃

SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 6/25/09
Date Analyzed: 6/25/09

Lab File ID: 5

Dilution Factor: 1
Lab Fraction ID: 09-4548-01E

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		593	1.00	µmhos/cm

FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 6/29/09
Date Analyzed: 6/29/09

Lab File ID: 15
Method Blank: MBLK 06/29/09

Dilution Factor: 1
Lab Fraction ID: 09-4548-01E

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	1.7	0.20	mg/L

E150.1 PH

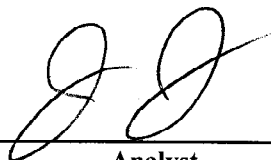
Method: E150.1

Prep Method:

Date Prepared: 6/23/09
Date Analyzed: 6/23/09 1525

Dilution Factor: 1
Lab Fraction ID: 09-4548-01E

Analytes	CAS Number	Result	LQL	Units
pH		8.82 H	1.00	pH Units



Analyst



Approved

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U - Compound analyzed for but not detected
X - See case narrative
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Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 7/2/2009

Evergreen Analytical, Inc.
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

018

Client Sample ID: York WW
Client Project ID: Complaint 200212599
Date Collected: 6/22/09 0901
Date Received: 6/23/09

Lab Work Order 09-4548
Lab Sample ID: 09-4548-01
Sample Matrix: Water

TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 6/24/09
Date Analyzed: 6/24/09

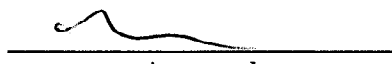
Lab File ID: 69
Method Blank: MBLK 2062409

Dilution Factor: 1
Lab Fraction ID: 09-4548-01E

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		450	10.0	mg/L



Analyst



Approved

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Print Date: 7/2/2009

QUALITY ASSURANCE REPORTS

METHOD BLANKS (MB)

LABORATORY CONTROL SPIKES (LCS)

MATRIX SPIKES (MS/MSD)*

DUPLICATES (DUP)*

* For Metals or Wet Chemistry analyses: only included if requested or if performed on this client's samples.

Evergreen Analytical, Inc.

Date: 29-Jun-09

Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP_W

Sample ID: GB062909	SampType: MBLK	TestCode: MEEP_W	Run ID: FID4_090629A	Prep Date: 06/29/09	Units: mg/L						
	Batch ID: GAS062909	TestNo: RSKSOP175	FileID: FB228	Analysis Date: 06/29/09	SeqNo: 864508						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	U	0.0016									
Ethene	U	0.0024									
Methane	U	0.00080									

Sample ID: LCS062909	SampType: LCS	TestCode: MEEP_W	Run ID: FID4_090629A	Prep Date: 06/29/09	Units: mg/L						
	Batch ID: GAS062909	TestNo: RSKSOP175	FileID: FB229	Analysis Date: 06/29/09	SeqNo: 864509						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	1.203	0.016	0.9548	0	126	70	130	0	0		
Ethene	1.323	0.024	0.8913	0	148	70	140	0	0		S
Methane	0.6085	0.0080	0.5094	0	119	70	130	0	0		

Sample ID: LCSD062909	SampType: LCSD	TestCode: MEEP_W	Run ID: FID4_090629A	Prep Date: 06/29/09	Units: mg/L						
	Batch ID: GAS062909	TestNo: RSKSOP175	FileID: FB230	Analysis Date: 06/29/09	SeqNo: 864510						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	1.192	0.016	0.9548	0	125	70	130	1.203	0.916	30	
Ethene	1.308	0.024	0.8913	0	147	70	140	1.323	1.15	30	S
Methane	0.6029	0.0080	0.5094	0	118	70	130	0.6085	0.928	30	

Sample ID: 09-4538-01GMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_090629A	Prep Date: 06/29/09	Units: mg/L						
	Batch ID: GAS062909	TestNo: RSKSOP175	FileID: FB243	Analysis Date: 06/29/09	SeqNo: 864499						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethane	1.127	0.016	0.9548	0	118	70	130	0	0		
Ethene	1.267	0.024	0.8913	0	142	70	140	0	0		S
Methane	0.577	0.0080	0.5094	0.001101	113	70	130	0	0		

Qualifiers:

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J - Analyte detected below quantitation limits
S - Spike Recovery outside acceptance limits
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits
B - Analyte detected in the associated Method Blank
H - Prep or analytical holding time exceeded
X - See case narrative

Work Order: 09-4548
Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP_W

Sample ID: 09-4538-01GMSD		SampType: MSD		TestCode: MEEP_W		Run ID: FID4_090629A		Prep Date: 06/29/09		Units: mg/L	
		Batch ID: GAS062909		TestNo: RSKSOP175		FileID: FB244		Analysis Date: 06/29/09		SeqNo: 864500	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethane	1.082	0.016	0.9548	0	113	70	130	1.127	4.06	30	
Ethene	1.192	0.024	0.8913	0	134	70	140	1.267	6.10	30	
Methane	0.5583	0.0080	0.5094	0.001101	110	70	130	0.577	3.29	30	

Qualifiers:

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E - Extrapolated value, value exceeds calibration range.

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B - Analyte detected in the associated Method Blank
H - Prep or analytical holding time exceeded
X - See case narrative

Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

BatchID: 19704

Sample ID MB-19704		SampType: MBLK		TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090629B		Prep Date: 6/29/2009		Units: mg/L	
		Batch ID: 19704		TestNo: E200.7, Rev.		FileID: 062909AM		Analysis Date: 6/29/2009		SeqNo: 864817	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	U	0.00200									
Beryllium	U	0.000450									
Boron	U	0.0200									
Calcium	U	0.387									
Chromium	U	0.0100									
Cobalt	U	0.00500									
Copper	U	0.00500									
Iron	U	0.0700									
Magnesium	U	0.150									
Manganese	U	0.00500									
Nickel	U	0.0300									
Potassium	U	0.340									
Sodium	U	0.400									
Zinc	U	0.0300									

Sample ID MB-19704		SampType: MBLK		TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090706B		Prep Date: 6/29/2009		Units: mg/L	
		Batch ID: 19704		TestNo: E200.7, Rev.		FileID: 062709AM		Analysis Date: 7/6/2009		SeqNo: 868999	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lithium	U	0.00200									
Strontium	U	0.000500									

Sample ID LCS-19704		SampType: LCS		TestCode: 200.7_D		Run ID: ICP-OPTIMA 5300 DV_090629B		Prep Date: 6/29/2009		Units: mg/L	
		Batch ID: 19704		TestNo: E200.7, Rev.		FileID: 062909AM		Analysis Date: 6/29/2009		SeqNo: 864818	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	4.948	0.00200	5	0	99	85	115	0	0		
Beryllium	0.04682	0.000450	0.05	0	93.6	85	115	0	0		
Boron	1.916	0.0200	2	0	95.8	85	115	0	0		

Qualifiers: U - Not detected at or above the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside acceptance limits
 E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits
 B - Analyte detected in the associated Method Blank
 H - Prep or analytical holding time exceeded
 X - See case narrative

Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

BatchID: 19704

Sample ID	LCS-19704	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090629B	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: 19704	TestNo: E200.7, Rev.	FileID: 062909AM	Analysis Date: 6/29/2009	SeqNo: 864818					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.901	0.387	10	0	99	85	115	0	0		
Chromium	1.897	0.0100	2	0	94.8	85	115	0	0		
Cobalt	1.895	0.00500	2	0	94.7	85	115	0	0		
Copper	1.793	0.00500	2	0	89.7	85	115	0	0		
Iron	4.933	0.0700	5	0	98.7	85	115	0	0		
Magnesium	9.759	0.150	10	0	97.6	85	115	0	0		
Manganese	1.849	0.00500	2	0	92.5	85	115	0	0		
Nickel	1.881	0.0300	2	0	94	85	115	0	0		
Potassium	9.761	0.340	10	0.03444	97.6	85	115	0	0		
Sodium	9.792	0.400	10	0	97.9	85	115	0	0		
Zinc	1.833	0.0300	2	0	91.7	85	115	0	0		

Sample ID	LCS-19704	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090706B	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: 19704	TestNo: E200.7, Rev.	FileID: 062709AM	Analysis Date: 7/6/2009	SeqNo: 869000					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lithium	1.813	0.00200	2	0	90.6	85	115	0	0		
Strontium	0.4772	0.000500	0.5	0	95.4	85	115	0	0		

Sample ID	09-4500-12BMS	SampType: MS	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090629B	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: 19704	TestNo: SW6010B	FileID: 062909AM	Analysis Date: 6/29/2009	SeqNo: 864820					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	4.944	0.0013	6.25	0.05015	78.3	75	125	0	0		
Beryllium	0.04986	0.00056	0.0625	0.0007387	78.6	75	125	0	0		
Boron	2.198	0.025	2.5	0.07197	85	75	125	0	0		
Calcium	376	0.48	12.5	373.7	18.9	75	125	0	0		S
Chromium	2.147	0.013	2.5	0.04708	84	75	125	0	0		
Cobalt	2.154	0.0063	2.5	0.05196	84.1	75	125	0	0		
Copper	1.953	0.0063	2.5	0	78.1	75	125	0	0		

Qualifiers:
 U - Not detected at or above the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside acceptance limits
 E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits
 B - Analyte detected in the associated Method Blank
 H - Prep or analytical holding time exceeded
 X - See case narrative

Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

BatchID: 19704

Sample ID 09-4500-12BMS	SampType: MS	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090629B	Prep Date: 6/29/2009	Units: mg/L						
	Batch ID: 19704	TestNo: SW6010B	FileID: 062909AM	Analysis Date: 6/29/2009	SeqNo: 864820						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10.13	0.088	6.25	4.692	87	75	125	0	0		
Magnesium	31.09	0.19	12.5	20.31	86.2	75	125	0	0		
Manganese	341.1	0.0063	2.5	333.3	314	75	125	0	0		S
Nickel	2.094	0.038	2.5	0.037	83.7	75	125	0	0		
Potassium	202	0.43	12.5	188.9	105	75	125	0	0		
Sodium	455.3	0.50	12.5	436.4	151	75	125	0	0		S
Zinc	7.94	0.038	2.5	5.996	77.8	75	125	0	0		

Sample ID 09-4500-12BMS	SampType: MS	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090706B	Prep Date: 6/29/2009	Units: mg/L						
	Batch ID: 19704	TestNo: SW6010B	FileID: 062709AM	Analysis Date: 7/7/2009	SeqNo: 869002						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lithium	3.933	0.013	2.5	0.09357	154	75	125	0	0		S
Strontium	2.329	0.0031	0.625	0.2935	326	75	125	0	0		S

Sample ID 09-4500-12BMSD	SampType: MSD	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090629B	Prep Date: 6/29/2009	Units: mg/L						
	Batch ID: 19704	TestNo: SW6010B	FileID: 062909AM	Analysis Date: 6/29/2009	SeqNo: 864821						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	4.768	0.0013	6.25	0.05015	75.5	75	125	4.944	3.63	20	
Beryllium	0.04995	0.00056	0.0625	0.0007387	78.7	75	125	0.04986	0.187	20	
Boron	2.199	0.025	2.5	0.07197	85.1	75	125	2.198	0.0496	20	
Calcium	373.7	0.48	12.5	373.7	0.0543	75	125	376	0.628	20	S
Chromium	2.138	0.013	2.5	0.04708	83.7	75	125	2.147	0.419	20	
Cobalt	2.133	0.0063	2.5	0.05196	83.2	75	125	2.154	0.984	20	
Copper	1.962	0.0063	2.5	0	78.5	75	125	1.953	0.453	20	
Iron	10.04	0.088	6.25	4.692	85.6	75	125	10.13	0.842	20	
Magnesium	30.91	0.19	12.5	20.31	84.8	75	125	31.09	0.576	20	
Manganese	338.2	0.0063	2.5	333.3	195	75	125	341.1	0.878	20	S
Nickel	2.074	0.038	2.5	0.037	83	75	125	2.094	0.941	20	

Qualifiers:
 U - Not detected at or above the Reporting Limit
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 S - Spike Recovery outside acceptance limits
 E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits
 B - Analyte detected in the associated Method Blank
 H - Prep or analytical holding time exceeded
 X - See case narrative

Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

BatchID: 19704

Sample ID	09-4500-12BMSD	SampType: MSD	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090629B	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: 19704	TestNo: SW6010B	FileID: 062909AM	Analysis Date: 6/29/2009	SeqNo: 864821					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	196.5	0.43	12.5	188.9	61.2	75	125	202	2.75	20	S
Sodium	440.5	0.50	12.5	436.4	32.9	75	125	455.3	3.30	20	S
Zinc	7.75	0.038	2.5	5.996	70.2	75	125	7.94	2.43	20	S

Sample ID	09-4500-12BMSD	SampType: MSD	TestCode: 6010_D	Run ID: ICP-OPTIMA 5300 DV_090706B	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: 19704	TestNo: SW6010B	FileID: 062709AM	Analysis Date: 7/7/2009	SeqNo: 869003					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lithium	4.102	0.013	2.5	0.09357	160	75	125	3.933	4.22	20	S
Strontium	2.397	0.0031	0.625	0.2935	337	75	125	2.329	2.86	20	S

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Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_D

Sample ID: MB-19662	SampType: MBLK	TestCode: 200.8_D	Run ID: ICPMS_090704A	Prep Date: 06/25/09	Units: mg/L						
	Batch ID: 19662	TestNo: E200.8	FileID: 090704A.B\086SMPL.D	Analysis Date: 07/04/09	SeqNo: 867621						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	U	0.00200									
Arsenic	U	0.00200									
Cadmium	U	0.000500									
Lead	U	0.00100									
Molybdenum	U	0.00500									
Selenium	U	0.00200									
Silver	U	0.000200									
Thallium	U	0.00100									
Uranium	U	0.00100									

Sample ID: LCS-19662	SampType: LCS	TestCode: 200.8_D	Run ID: ICPMS_090704A	Prep Date: 06/25/09	Units: mg/L						
	Batch ID: 19662	TestNo: E200.8	FileID: 090704A.B\087SMPL.D	Analysis Date: 07/04/09	SeqNo: 867622						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.02688	0.00200	0.025	0	108	85	115	0	0		
Arsenic	0.2436	0.00200	0.25	0	97.4	85	115	0	0		
Cadmium	0.02376	0.000500	0.025	0	95	85	115	0	0		
Lead	0.0105	0.00100	0.01	0	105	85	115	0	0		
Molybdenum	0.2508	0.00500	0.25	0	100	85	115	0	0		
Selenium	0.0519	0.00200	0.05	0	104	85	115	0	0		
Silver	0.02814	0.000200	0.025	0	113	85	115	0	0		
Thallium	0.01056	0.00100	0.01	0	106	85	115	0	0		
Uranium	0.01075	0.00100	0.01	0	107	85	115	0	0		

Sample ID: 09-4500-18DMS	SampType: MS	TestCode: 200.8_D	Run ID: ICPMS_090704A	Prep Date: 06/25/09	Units: mg/L						
	Batch ID: 19662	TestNo: E200.8	FileID: 090704A.B\090SMPL.D	Analysis Date: 07/04/09	SeqNo: 867624						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	0.0544	0.00200	0.05	0.002957	103	70	130	0	0		
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Work Order: 09-4548
Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT**TestCode: 200.8_D**

Sample ID: 09-4500-18DMSD		SampType: MSD		TestCode: 200.8_D		Run ID: ICPMS_090704A		Prep Date: 06/25/09		Units: mg/L	
		Batch ID: 19662		TestNo: E200.8		FileID: 090704A.B\091SMPL.D		Analysis Date: 07/04/09		SeqNo: 867625	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.0549	0.00200	0.05	0.002957	104	70	130	0.0544	0.915	20	

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Work Order: 09-4548
Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_D

Sample ID: 09-4500-12BMS		SampType: MS	TestCode: 6010_D		Run ID: ICP-OPTIMA 5300 DV_090629B			Prep Date: 06/29/09		Units: mg/L	
		Batch ID: 19704	TestNo: SW6010B		FileID: 062909AM			Analysis Date: 06/29/09		SeqNo: 864820	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	4.944	0.0013	6.25	0.05015	78.3	75	125	0	0		
Beryllium	0.04986	0.00056	0.0625	0.0007387	78.6	75	125	0	0		
Boron	2.198	0.025	2.5	0.07197	85	75	125	0	0		
Calcium	376	0.48	12.5	373.7	18.9	75	125	0	0		S
Chromium	2.147	0.013	2.5	0.04708	84	75	125	0	0		
Cobalt	2.154	0.0063	2.5	0.05196	84.1	75	125	0	0		
Copper	1.953	0.0063	2.5	0	78.1	75	125	0	0		
Iron	10.13	0.088	6.25	4.692	87	75	125	0	0		
Magnesium	31.09	0.19	12.5	20.31	86.2	75	125	0	0		
Manganese	341.1	0.0063	2.5	333.3	314	75	125	0	0		S
Nickel	2.094	0.038	2.5	0.037	83.7	75	125	0	0		
Potassium	202	0.43	12.5	188.9	105	75	125	0	0		
Sodium	455.3	0.50	12.5	436.4	151	75	125	0	0		S
Zinc	7.94	0.038	2.5	5.996	77.8	75	125	0	0		

Sample ID: 09-4500-12BMS		SampType: MS	TestCode: 6010_D		Run ID: ICP-OPTIMA 5300 DV_090706B			Prep Date: 06/29/09		Units: mg/L	
		Batch ID: 19704	TestNo: SW6010B		FileID: 062709AM			Analysis Date: 07/07/09		SeqNo: 869002	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lithium	3.933	0.013	2.5	0.09357	154	75	125	0	0		S
Strontium	2.329	0.0031	0.625	0.2935	326	75	125	0	0		S

Sample ID: 09-4500-12BMSD		SampType: MSD	TestCode: 6010_D		Run ID: ICP-OPTIMA 5300 DV_090629B			Prep Date: 06/29/09		Units: mg/L	
		Batch ID: 19704	TestNo: SW6010B		FileID: 062909AM			Analysis Date: 06/29/09		SeqNo: 864821	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	4.768	0.0013	6.25	0.05015	75.5	75	125	4.944	3.63	20	
Beryllium	0.04995	0.00056	0.0625	0.0007387	78.7	75	125	0.04986	0.187	20	
Boron	2.199	0.025	2.5	0.07197	85.1	75	125	2.198	0.0496	20	
Calcium	373.7	0.48	12.5	373.7	0.0543	75	125	376	0.628	20	S

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Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_D

Sample ID: 09-4500-12BMSD		SampType: MSD	TestCode: 6010_D		Run ID: ICP-OPTIMA 5300 DV_090629B			Prep Date: 06/29/09		Units: mg/L	
		Batch ID: 19704	TestNo: SW6010B		FileID: 062909AM			Analysis Date: 06/29/09		SeqNo: 864821	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2.138	0.013	2.5	0.04708	83.7	75	125	2.147	0.419	20	
Cobalt	2.133	0.0063	2.5	0.05196	83.2	75	125	2.154	0.984	20	
Copper	1.962	0.0063	2.5	0	78.5	75	125	1.953	0.453	20	
Iron	10.04	0.088	6.25	4.692	85.6	75	125	10.13	0.842	20	
Magnesium	30.91	0.19	12.5	20.31	84.8	75	125	31.09	0.576	20	
Manganese	338.2	0.0063	2.5	333.3	195	75	125	341.1	0.878	20	S
Nickel	2.074	0.038	2.5	0.037	83	75	125	2.094	0.941	20	
Potassium	196.5	0.43	12.5	188.9	61.2	75	125	202	2.75	20	S
Sodium	440.5	0.50	12.5	436.4	32.9	75	125	455.3	3.30	20	S
Zinc	7.75	0.038	2.5	5.996	70.2	75	125	7.94	2.43	20	S

Sample ID: 09-4500-12BMSD		SampType: MSD	TestCode: 6010_D		Run ID: ICP-OPTIMA 5300 DV_090706B			Prep Date: 06/29/09		Units: mg/L	
		Batch ID: 19704	TestNo: SW6010B		FileID: 062709AM			Analysis Date: 07/07/09		SeqNo: 869003	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lithium	4.102	0.013	2.5	0.09357	160	75	125	3.933	4.22	20	S
Strontium	2.397	0.0031	0.625	0.2935	337	75	125	2.329	2.86	20	S

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Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestNo: E300.0

Sample ID: MB 06/23/09	SampType: MBLK	TestCode: ANIONS_NON	Run ID: IC-DX120_090623A	Prep Date: 6/23/09	Units: mg/L						
	Batch ID: R48098	TestNo: E300.0	FileID:	Analysis Date: 6/23/09	SeqNo: 862054						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	U	0.50									
Nitrite	U	0.20									
Bromide	U	0.20									
Nitrate	U	0.20									
Sulfate	U	0.50									

Sample ID: LCS ALLT218076	SampType: LCS	TestCode: ANIONS_NON	Run ID: IC-DX120_090623A	Prep Date: 6/23/09	Units: mg/L						
	Batch ID: R48098	TestNo: E300.0	FileID:	Analysis Date: 6/23/09	SeqNo: 862053						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	18.85	2.5	20	0	94.3	90	110	0	0		
Nitrite	18.62	1.0	20	0	93.1	90	110	0	0		
Bromide	19.75	1.0	20	0	98.8	90	110	0	0		
Nitrate	19.35	1.0	20	0	96.8	90	110	0	0		
Sulfate	29.97	2.5	30	0	99.9	90	110	0	0		

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Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: ALK_WGRP

Sample ID	MBLK 062509	SampType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_090625A	Prep Date: 6/25/2009	Units: mg/L CaCO3					
		Batch ID: R48126	TestNo: SM2320B	FileID: 47	Analysis Date: 6/25/2009	SeqNo: 862446					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	U	5.0
Bicarbonate	U	5.0
Carbonate	U	5.0

Sample ID	MBLK 062509	SampType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_090625A	Prep Date: 6/25/2009	Units: mg/L CaCO3					
		Batch ID: R48126	TestNo: SM2320B	FileID: 47	Analysis Date: 6/25/2009	SeqNo: 862465					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	U	5.0
Bicarbonate	U	5.0
Carbonate	U	5.0

Sample ID	LCS	SampType: LCS	TestCode: ALK_WGRP	Run ID: ALK_090625A	Prep Date: 6/25/2009	Units: mg/L CaCO3					
		Batch ID: R48126	TestNo: SM2320B	FileID: 48	Analysis Date: 6/25/2009	SeqNo: 862447					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	98.53	5.0	100	0	98.5	90	110	0	0
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Sample ID	LCS	SampType: LCS	TestCode: ALK_WGRP	Run ID: ALK_090625A	Prep Date: 6/25/2009	Units: mg/L CaCO3					
		Batch ID: R48126	TestNo: SM2320B	FileID: 48	Analysis Date: 6/25/2009	SeqNo: 862466					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	97.79	5.0	100	0	97.8	90	110	0	0
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Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: COND_W

Sample ID	LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_090625A	Prep Date: 6/25/2009	Units: µmhos/cm					
		Batch ID: R48109	TestNo: SM2510 B	FileID: 1	Analysis Date: 6/25/2009	SeqNo: 862201					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	93.5	1.00	99.7	0	93.8	90	110	0	0		

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X - See case narrative

Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: F_W

Sample ID	MBLK 06/29/09	SampType: MBLK	TestCode: F_W	Run ID: F_090629A	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: R48212	TestNo: SM 4500-F C	FileID: 1	Analysis Date: 6/29/2009	SeqNo: 864523					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	U	0.20									

Sample ID	MBLK 06/29/09	SampType: MBLK	TestCode: F_W	Run ID: F_090629A	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: R48212	TestNo: SM 4500-F C	FileID: 1	Analysis Date: 6/29/2009	SeqNo: 864548					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	U	0.20									

Sample ID	LCS	SampType: LCS	TestCode: F_W	Run ID: F_090629A	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: R48212	TestNo: SM 4500-F C	FileID: 2	Analysis Date: 6/29/2009	SeqNo: 864524					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	9.664	0.20	10	0	96.6	95	105	0	0		

Sample ID	LCS	SampType: LCS	TestCode: F_W	Run ID: F_090629A	Prep Date: 6/29/2009	Units: mg/L					
		Batch ID: R48212	TestNo: SM 4500-F C	FileID: 2	Analysis Date: 6/29/2009	SeqNo: 864549					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	10.29	0.20	10	0	103	95	105	0	0		

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Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_DW

Sample ID	LCS-R48058	SampType: LCS	TestCode: PH_DW	Run ID: PH_090623C	Prep Date: 6/23/2009	Units: pH Units					
		Batch ID: R48058	TestNo: E150.1	FileID:	Analysis Date: 6/23/2009	SeqNo: 860819					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.98	1.00	8	0	99.8	99.3	100.7	0	0		

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Work Order: 09-4548

Client Project ID: Complaint 200212599

ANALYTICAL QC SUMMARY REPORT

TestCode: TDS_W

Sample ID	MBLK 2062409	SampType: MBLK	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_090624A	Prep Date: 6/24/2009	Units: mg/L
		Batch ID: R48129	TestNo: SM 2540C	FileID: 47	Analysis Date: 6/24/2009	SeqNo: 862516
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids		U	10.0			

Sample ID	LCS	SampType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_090624A	Prep Date: 6/24/2009	Units: mg/L
		Batch ID: R48129	TestNo: SM 2540C	FileID: 48	Analysis Date: 6/24/2009	SeqNo: 862517
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids		399	10.0	400	0	99.7 90 110 0 0

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