

200209080

April 07, 2009

Brian Dodek  
LT Environmental  
4600 W 60th Ave  
Arvada, CO 80003

Lab Work Order: 09-1994  
Client Project ID: Ellsworth Sampling

Dear Brian Dodek:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

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

EAL 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 Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,

Joseph J Egry IV/ Carl Smits  
Quality Assurance

**WORK ORDER Summary****Evergreen Analytical, Inc.****09-1994****Rpt To:** Brian Dodek**Email To:** bdodek@ltnv.com

3/27/2009 10:01:36 AM

LT Environmental

4600 W 60th Ave

Arvada, CO 80003

(303) 433-9788

**Client Project ID:** Ellsworth Sampling**QC Level:** LEVEL I**Comments** EDD Newfields format per client requested. TP

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-1994-01A	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	8021_W *	8021: BTEX, MtBE	<input type="checkbox"/>	<input type="checkbox"/>	3/30/09	4/07/09
09-1994-01B	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	4/01/09	4/07/09
09-1994-01C	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	9/20/09
09-1994-01C	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	6020_D *	6020: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	9/20/09
09-1994-01D	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	CARB/BICARB_W	Carbonate and Bicarbonate	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	4/07/09
09-1994-01D	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	4/21/09
09-1994-01D	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	4/21/09
09-1994-01D	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	3/25/09
09-1994-01D	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	3/31/09
09-1994-01E	Debbie Benton	Groundwater	3/24/09 1610	3/25/09	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	3/26/09

*Quality Data on Time®*

Tel # 3/433-9788 Fax # 3/433-1992 E-mail

4036 Youngfield St.  
Wheat Ridge, Colorado 80033  
(303) 425-6021  
FAX (303) 425-6854  
(877) 737-4521

3 - 5 work days, 50%      6 - 9 work days, 25%

\*Subject to surcharge & exceptions noted in fee schedule.

REPORT ALSO BY ☐ FAX ☒ PDF ☐ EDD FAXED CONFIRMATION OF SAMPLE RECEIPT REQUIRED? ☐ YES

REPORT CHROMATOGRAMS ☐ YES

Tel # \_\_\_\_\_ Fax # \_\_\_\_\_

Sampler MOD

**NOTE:** *Identify Known Hazards Below*

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME
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[illegible]

**Does this analysis involve property transfer?** ☐ Yes or ☐ No

Instructions: Cations - Na, Ca, Mg, K Total, Metals - arsenic, barium, cadmium, chromium, lead, selenium,  
 \*\* Important Note: See reverse side hereof for terms and conditions. Dissolved manganese, iron

Relinquished by: (Signature) <i>B. J. L.</i>	Date/Time 3/24/09 16:00	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature) <i>[Signature]</i>	Date/Time 3/25/09 1500
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**Evergreen Analytical, Inc.**

Date: 07-Apr-09

Lab Order: 09-1994

Client Project ID Ellsworth Sampling

**CASE NARRATIVE****SAMPLE RECEIVING**

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 4.0°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

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

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

**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. TP

**GENERAL CHEMISTRY**

Method E300.0: Sample Ellsworth Sampling (09-1994-01) has a high Chloride level and matrix interferences, which required dilution of the sample to separate the Nitrite peak from the Chloride peak and to resolve the Nitrate peak. This raised the reporting limit for Nitrate-N and Nitrite-N. There are no other anomalies to report. JML/MM/JE

**METALS ANALYSIS**

Method SW6010B: The matrix spike (MS; on another client's sample) recovery for Calcium is outside the QC limits due to the high concentration of Calcium in the sample versus the low concentration of the spike. The Calcium recovery for the laboratory control spike (LCS) is within QC limits, proving the analysis is in control. There are no anomalies to report. WKH/JE

**GAS CHROMATOGRAPHY**

Method 8021\_W: The MtBE recoveries in the matrix spike and matrix sample duplicate (MS/MSD) are above the QC limits. Since the bias for MtBE is high and the sample is non-detect for this analyte, no further action is required. There are no other anomalies to report. JCC/JM/JE

**Evergreen Analytical, Inc.**

**Date:** 07-Apr-09

**Lab Order:** 09-1994

**Client Project ID** Ellsworth Sampling

**CASE NARRATIVE**

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Method RSK-175: A sample duplicate (DUP) was prepared and analyzed instead of a matrix spike duplicate (MSD) due to limited sample. There are no other anomalies to report. VM

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# Evergreen Analytical, Inc.

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

Client Sample ID: Debbie Benton  
Client Project ID: Ellsworth Sampling  
Date Collected: 3/24/2009  
Date Received: 3/25/2009

Lab Work Order 09-1994  
Lab Sample ID: 09-1994-01A  
Sample Matrix: Groundwater

## AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 3/27/2009

Lab File ID: 032709\TA041

Dilution Factor: 1

Date Analyzed: 3/28/2009

Method Blank: MB2032709-2

Analytes	CAS Number	Result	LQL	Units
Methyl-t-butyl ether	1634-04-4	U	5.0	µg/L
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	65	QC Limits: 60-140	%REC

  
Analyst

  
Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**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.

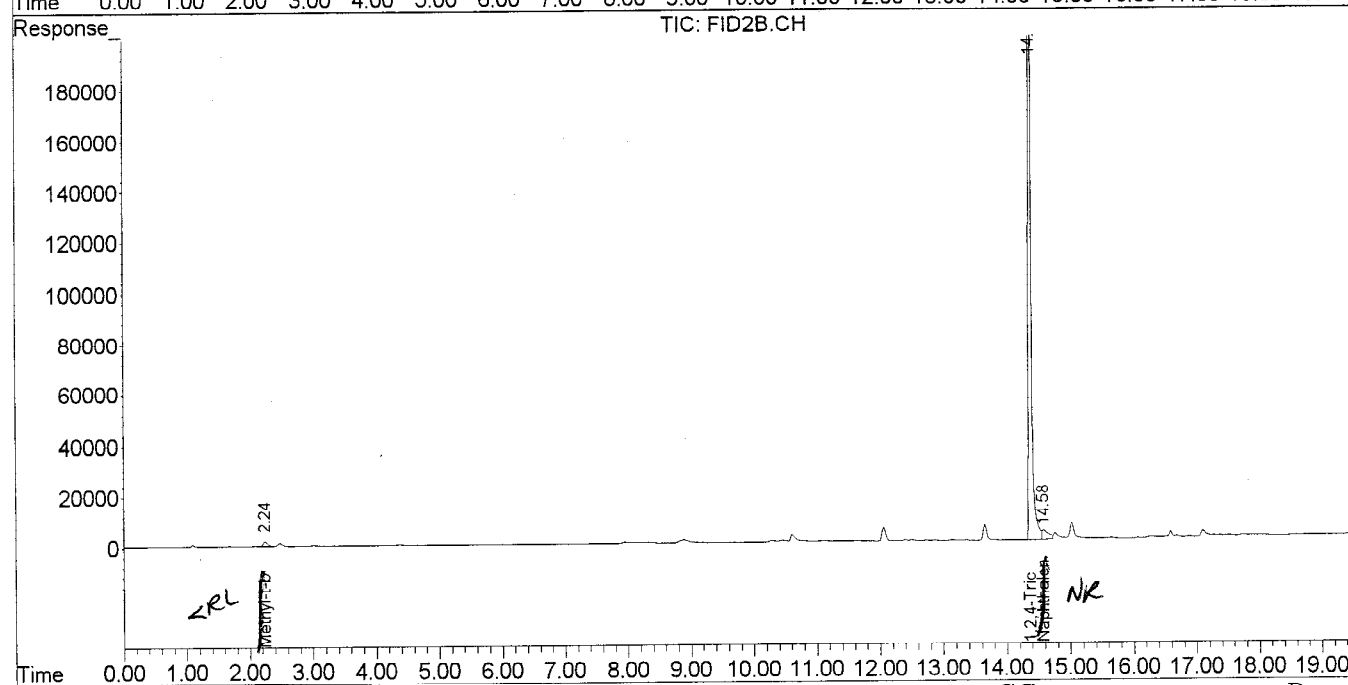
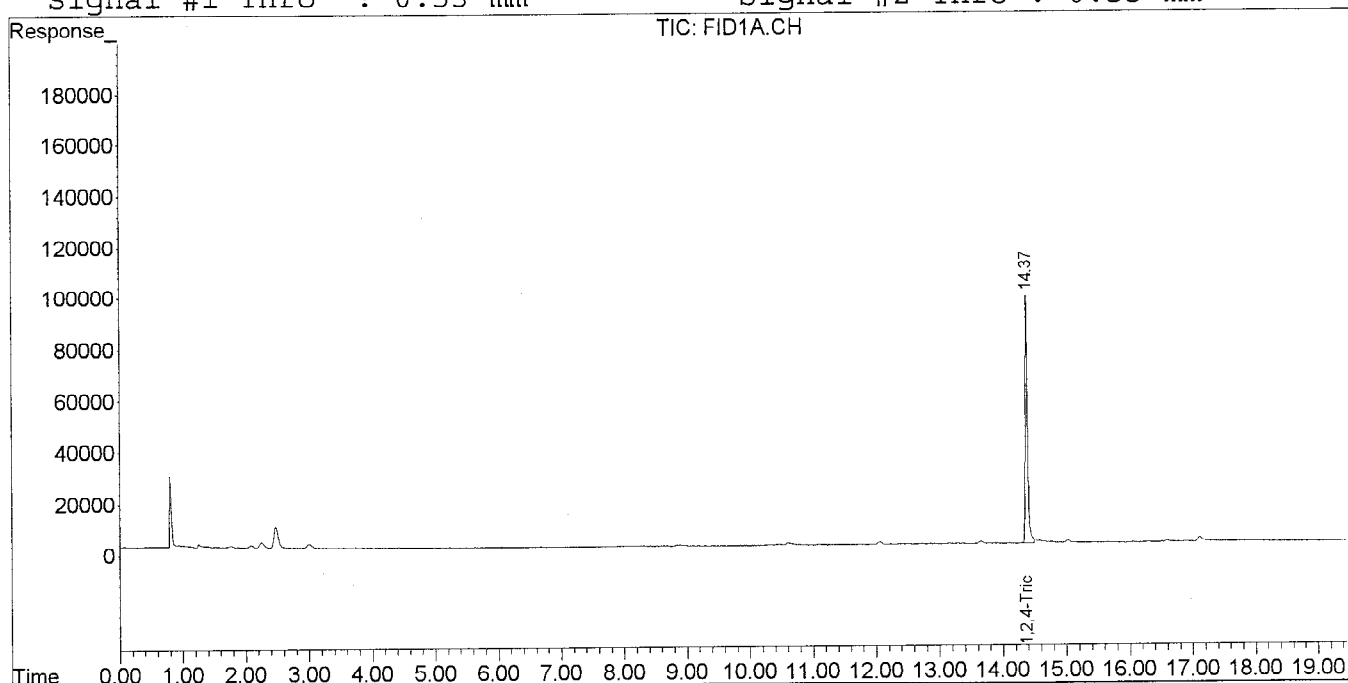
**Definitions:** LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 3/30/2009

Signal #1 : E:\DATA\032709\TA041.D\FID1A.CH Vial: 41  
 Signal #2 : E:\DATA\032709\TA041.D\FID2B.CH  
 Acq On : 28 Mar 2009 11:01 am Operator: Jennifer C  
 Sample : 09-1994-01A Inst : TVHBTEX2  
 Misc : ,SAMP,8021\_W,TVH\_W,1, Multiplr: 1.00  
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E  
 Quant Time: Mar 30 14:14 2009 Quant Results File: TW20327.RES

Quant Method : C:\MSDCHEM\1\METHODS\TW20327.M (Chemstation Integrator)  
 Title : 8015B/8021B TVH/BTEX  
 Last Update : Mon Mar 30 12:42:08 2009  
 Response via : Multiple Level Calibration  
 DataAcq Meth : TVB2.M

Volume Inj. :  
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624  
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm



**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
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Client Project ID Ellsworth Sampling

 Lab Order: 09-1994  
 Units: mg/L

**RSKSOP-175M Headspace**

Method: RSKSOP175M

Methane

Prep Method: RSKSOP175M

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
09-1994-01B	Debbie Benton	Groundwater	3/25/09	3/24/09	3/30/09	3/30/09	8.7	0.016	20

Comments:

 VM  
 Analyst

  
 Approved

Qualifiers: J - Indicates an estimated value when the compound is detected, but is below the LQL

H - Sample analysis exceeded analytical holding time

U - Compound analyzed for but not detected

X - See case narrative

\* - Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: DF - Dilution Factor

LQL - Lower Quantitation Limit

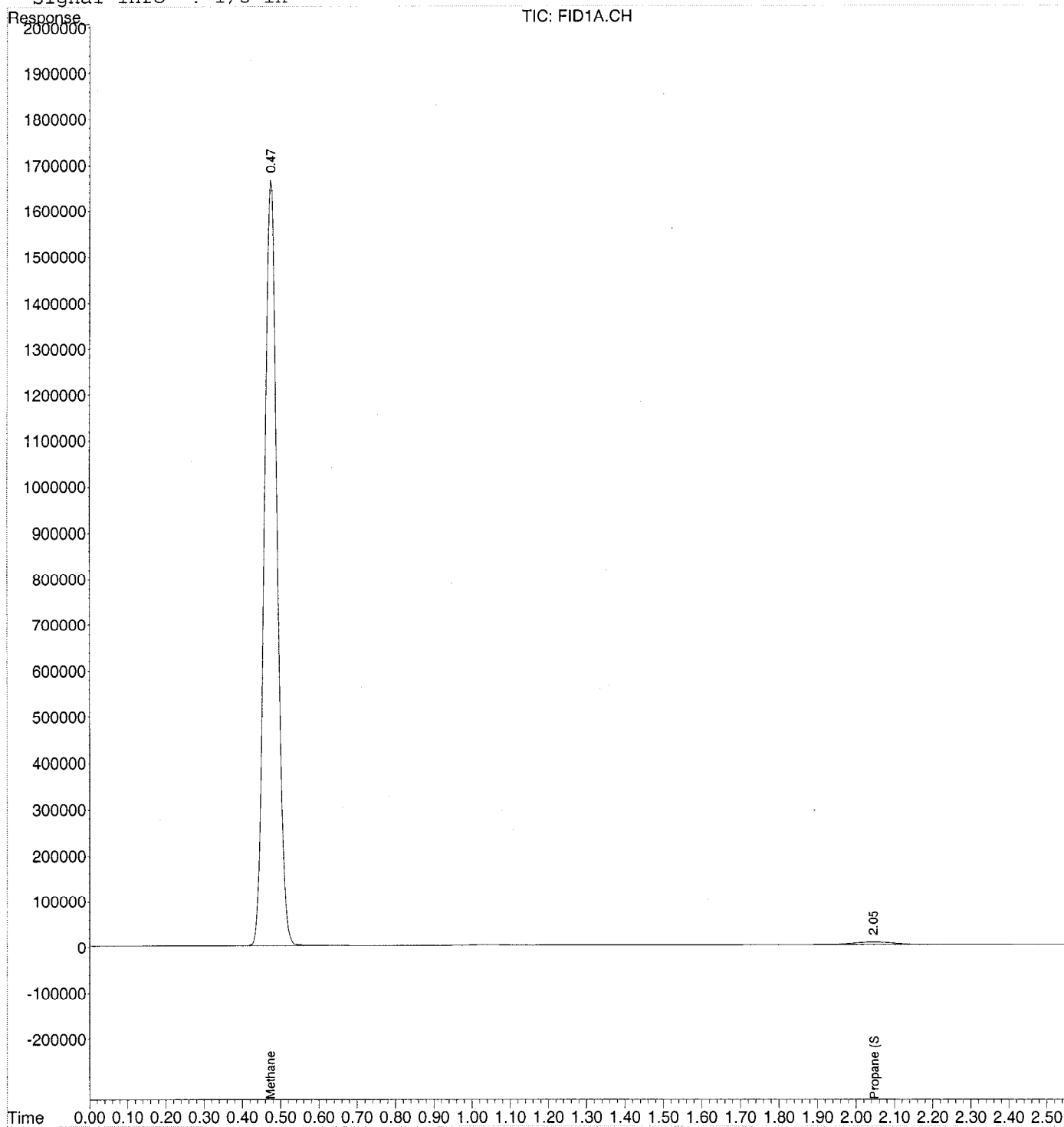
Print Date: 3/30/2009



Data File : F:\DATA\033009\FB016.D Vial: 16  
Acq On : 30 Mar 2009 1:52 pm Operator: Virginia Meyer  
Sample : 09-1994-01B Inst : FID4  
Misc : SAMP, MEEP\_W, 20, 25uL Multiplr: 1.00  
IntFile : autoint1.e  
Quant Time: Mar 30 14:56 2009 Quant Results File: GAS0324.RES

Quant Method : C:\MSDCHEM\2\METHODS\GAS0324.M (Chemstation Integrator)  
Title : RSK 175 Methane, Ethene, Ethane, and Propane  
Last Update : Tue Mar 24 10:10:57 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.

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(303) 425-6021

Client Sample ID: Debbie Benton  
Client Project ID: Ellsworth Sampling  
Date Collected: 3/24/09  
Date Received: 3/25/09

Lab Work Order: 09-1994  
Lab Sample ID: 09-1994-01  
Sample Matrix: Groundwater

## DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 3/30/09

Lab File ID: 040109PM

Dilution Factor: 1

Date Analyzed: 4/2/09

Method Blank: MB-18612

Lab Fraction ID: 09-1994-01C

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	1.5	0.39	mg/L
Iron	7439-89-6	U	0.070	mg/L
Magnesium	7439-95-4	0.44	0.15	mg/L
Manganese	7439-96-5	U	0.0050	mg/L
Potassium	7440-09-7	1.5	0.34	mg/L
Sodium	7440-23-5	290	0.40	mg/L

## DISSOLVED METALS

Method: SW6020

Prep Method: SW6020

Date Prepared: 4/2/09

Lab File ID: 090405A.B\033SMPL.D

Dilution Factor: 1

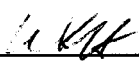
Date Analyzed: 4/5/09

Method Blank: MB-18653

Lab Fraction ID: 09-1994-01C

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	0.0020	mg/L
Barium	7440-39-3	0.047	0.025	mg/L
Cadmium	7440-43-9	U	0.0010	mg/L
Chromium	7440-47-3	U	0.0050	mg/L
Lead	7439-92-1	U	0.0050	mg/L
Selenium	7782-49-2	U	0.0050	mg/L

  
Analyst

  
Approved

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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: 4/6/2009

# Evergreen Analytical, Inc.

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

Client Sample ID Debbie Benton  
Client Project ID Ellsworth Sampling  
Date Collected: 3/24/09 1610  
Date Received: 3/25/09

Lab Work Order 09-1994  
Lab Sample ID: 09-1994-01  
Sample Matrix: Groundwater

## CARBONATE AND BICARBONATE

Method: SM2320 B

Prep Method:

Date Prepared: 3/31/09

Lab File ID: 148

Dilution Factor: 1

Date Analyzed: 3/31/09

Method Blank: MBLK 3/31/09

Lab Fraction ID: 09-1994-01D

Analytes	CAS Number	Result	LQL	Units
Bicarbonate		570	5.0	mg/L
Carbonate		17.1	5.0	mg/L

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 3/31/09

Lab File ID: 64

Dilution Factor: 1

Date Analyzed: 3/31/09

Lab Fraction ID: 09-1994-01D

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		967	1.00	µmhos/cm

## FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 3/27/09

Lab File ID: 64

Dilution Factor: 1

Date Analyzed: 3/27/09

Method Blank: MBLK 032709

Lab Fraction ID: 09-1994-01D

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	3.0	0.20	mg/L

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 3/25/09

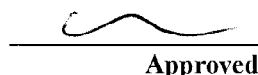
Dilution Factor: 1

Date Analyzed: 3/25/09 1310

Lab Fraction ID: 09-1994-01D

Analytes	CAS Number	Result	LQL	Units
pH		8.61	1.00	pH Units

  
Analyst

  
Approved

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

Print Date: 4/2/2009

# Evergreen Analytical, Inc.

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

Client Sample ID Debbie Benton  
Client Project ID Ellsworth Sampling  
Date Collected: 3/24/09 1610  
Date Received: 3/25/09

Lab Work Order 09-1994  
Lab Sample ID: 09-1994-01  
Sample Matrix: Groundwater

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 3/31/09

Lab File ID: 5

Dilution Factor: 1

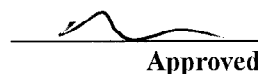
Date Analyzed: 3/31/09

Method Blank: MBLK 03/31/09

Lab Fraction ID: 09-1994-01D

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		652	10.0	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  
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**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 4/2/2009

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client Sample ID: Debbie Benton  
 Client Project ID: Ellsworth Sampling  
 Date Collected: 3/24/09 1610  
 Date Received: 3/25/09

Lab Work Order: 09-1994  
 Lab Sample ID: 09-1994-01  
 Sample Matrix: Groundwater

## ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 3/26/09

Dilution Factor: 1

Date Analyzed: 3/26/09 1156

Method Blank: MB 03/26/09

Lab Fraction ID: 09-1994-01E

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	0.53	0.20	mg/L
Sulfate	7778-80-2	U	0.50	mg/L

Date Prepared: 3/26/09

Dilution Factor: 5


Date Analyzed: 3/26/09 1325

Method Blank: MB 03/26/09

Lab Fraction ID: 09-1994-01E

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	53.3	2.5	mg/L
Nitrite-N		U	0.31	mg/L
Nitrate-N		U	0.23	mg/L

  
 Analyst

  
 Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
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 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: 3/27/09

## **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.**

Work Order: 09-1994

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8021\_W

Sample ID: MB2032709-2		SampType: MBLK		TestCode: 8021_W		Run ID: TVHBTEX2_090327A		Prep Date: 3/27/2009		Units: µg/L	
Batch ID: R46129-2		TestNo: SW8021B		FileID: 032709\TA034		Analysis Date: 3/28/2009		SeqNo: 819397			
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	U	5.0									
Benzene	U	1.0									
Toluene	U	2.0									
Ethylbenzene	U	2.0									
m,p-Xylene	U	2.0									
o-Xylene	U	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	60.46	0	100	0	60.5	60	140	0	0		

Sample ID: LCS2032709-2		SampType: LCS		TestCode: 8021_W		Run ID: TVHBTEX2_090327A		Prep Date: 3/27/2009		Units: µg/L	
Batch ID: R46129-2		TestNo: SW8021B		FileID: 032709\TA035		Analysis Date: 3/28/2009		SeqNo: 819398			
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	38.22	5.0	31.2	0	122	70	130	0	0		
Benzene	25.65	1.0	25.5	0	101	70	130	0	0		
Toluene	177.6	2.0	183.6	0	96.8	70	130	0	0		
Ethylbenzene	38.98	2.0	36.8	0	106	70	130	0	0		
m,p-Xylene	143.3	2.0	136.3	0	105	70	130	0	0		
o-Xylene	60.4	2.0	57.2	0	106	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	108.7	0	100	0	109	60	140	0	0		

Sample ID: 09-1997-01AMS		SampType: MS		TestCode: 8021_W		Run ID: TVHBTEX2_090327A		Prep Date: 3/27/2009		Units: µg/L	
Batch ID: R46129-2		TestNo: SW8021B		FileID: 032709\TA037		Analysis Date: 3/28/2009		SeqNo: 819400			
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	46.21	5.0	31.2	0	148	65	132	0	0		S
Benzene	25.45	1.0	25.5	0	99.8	70	130	0	0		
Toluene	178.2	2.0	183.6	0	97	70	130	0	0		
Ethylbenzene	39.46	2.0	36.8	0	107	62	130	0	0		
m,p-Xylene	146	2.0	136.3	0	107	70	134	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: 09-1994  
 Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8021\_W

Sample ID: 09-1997-01AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTEX2_090327A	Prep Date: 3/27/2009	Units: µg/L						
	Batch ID: R46129-2	TestNo: SW8021B	FileID: 032709\TA037	Analysis Date: 3/28/2009	SeqNo: 819400						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	61.2	2.0	57.2	0	107	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	112.6	0	100	0	113	60	140	0	0		

Sample ID: 09-1997-01AMSD	SampType: MSD	TestCode: 8021_W	Run ID: TVHBTEX2_090327A				Prep Date: 3/27/2009		Units: µg/L		
	Batch ID: R46129-2	TestNo: SW8021B	FileID: 032709\TA038				Analysis Date: 3/28/2009		SeqNo: 819401		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	55.6	5.0	31.2	0	178	65	132	46.21	18.4	30	S
Benzene	24.6	1.0	25.5	0	96.5	70	130	25.45	3.43	30	
Toluene	174.5	2.0	183.6	0	95	70	130	178.2	2.07	30	
Ethylbenzene	38.78	2.0	36.8	0	105	62	130	39.46	1.75	30	
m,p-Xylene	143.4	2.0	136.3	0	105	70	134	146	1.76	30	
o-Xylene	60.88	2.0	57.2	0	106	63	130	61.2	0.516	30	
Surr: 1,2,4-Trichlorobenzene (S)	108.8	0	100	0	109	60	140	0	0	0	

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 X - See case narrative



Evergreen Analytical, Inc.

Date: 30-Mar-09

Work Order: 09-1994

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP\_W

Sample ID: <b>GB033009</b>	SampType: <b>MBLK</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_090330A</b>	Prep Date: <b>3/30/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS033009</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB004</b>	Analysis Date: <b>3/30/2009</b>	SeqNo: <b>819502</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	U	0.0080									
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Sample ID: <b>LCS033009</b>	SampType: <b>LCS</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_090330A</b>	Prep Date: <b>3/30/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS033009</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB005</b>	Analysis Date: <b>3/30/2009</b>	SeqNo: <b>819503</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	0.6046	0.0080	0.5094	0	119	70	130	0	0		
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Sample ID: <b>LCSD033009</b>	SampType: <b>LCSD</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_090330A</b>	Prep Date: <b>3/30/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS033009</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB006</b>	Analysis Date: <b>3/30/2009</b>	SeqNo: <b>819504</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	0.606	0.0080	0.5094	0	119	70	130	0.6046	0.219	30	
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Sample ID: 09-2029-01BMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_090330A	Prep Date: 3/30/2009	Units: mg/L						
	Batch ID: GAS033009	TestNo: RSKSOP175	FileID: FB031	Analysis Date: 3/30/2009	SeqNo: 819501						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	0.582	0.0080	0.5094	0.002177	114	70	130	0	0		
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Sample ID: 09-1962-01BDUP	SampType: DUP	TestCode: MEEP_W	Run ID: FID4_090330A	Prep Date: 3/30/2009	Units: mg/L						
	Batch ID: GAS033009	TestNo: RSKSOP175	FileID: FB032	Analysis Date: 3/30/2009	SeqNo: 819493						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane	4.537	0.016	0	0	0	0	0	4.447	2.00	30	
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Work Order: 09-1994

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: 6010\_D

Sample ID 09-1839-01CMS		SampType: MS	TestCode: 6010_D		Run ID: ICP-OPTIMA 5300 DV_090401B			Prep Date: 3/30/2009		Units: mg/L	
		Batch ID: 18612	TestNo: SW6010B		FileID: 040109DY			Analysis Date: 4/1/2009		SeqNo: 820677	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	71.35	0.48	12.5	54.92	131	75	125	0	0		S
Iron	6.873	0.088	6.25	0	110	75	125	0	0		
Magnesium	34.27	0.19	12.5	19.67	117	75	125	0	0		
Manganese	2.555	0.0063	2.5	0.003389	102	75	125	0	0		
Potassium	16.41	0.43	12.5	3.017	107	75	125	0	0		
Sodium	73.23	0.50	12.5	57.87	123	75	125	0	0		

Sample ID 09-1839-01CMSD		SampType: MSD	TestCode: 6010_D		Run ID: ICP-OPTIMA 5300 DV_090401B			Prep Date: 3/30/2009		Units: mg/L	
		Batch ID: 18612	TestNo: SW6010B		FileID: 040109DY			Analysis Date: 4/1/2009		SeqNo: 820678	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	69.99	0.48	12.5	54.92	121	75	125	71.35	1.92	20	
Iron	6.839	0.088	6.25	0	109	75	125	6.873	0.487	20	
Magnesium	33.89	0.19	12.5	19.67	114	75	125	34.27	1.12	20	
Manganese	2.544	0.0063	2.5	0.003389	102	75	125	2.555	0.450	20	
Potassium	16.38	0.43	12.5	3.017	107	75	125	16.41	0.234	20	
Sodium	72.98	0.50	12.5	57.87	121	75	125	73.23	0.340	20	

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Evergreen Analytical, Inc.

Date: 06-Apr-09

Work Order: 09-1994

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

BatchID: 18612

Sample ID: <b>MB-18612</b>	SampType: <b>MBLK</b>	TestCode: <b>200.7_D</b>	Run ID: <b>ICP-OPTIMA 5300 DV_090401B</b>	Prep Date: <b>3/30/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>18612</b>	TestNo: <b>E200.7, Rev.</b>	FileID: <b>040109DY</b>	Analysis Date: <b>4/2/2009</b>	SeqNo: <b>820723</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	0	0.387									
Iron	0	0.0700									
Magnesium	0	0.150									
Manganese	U	0.00500									
Potassium	U	0.340									
Sodium	0	0.400									

Sample ID: <b>LCS-18612</b>	SampType: <b>LCS</b>	TestCode: <b>200.7_D</b>	Run ID: <b>ICP-OPTIMA 5300 DV_090401B</b>	Prep Date: <b>3/30/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>18612</b>	TestNo: <b>E200.7, Rev.</b>	FileID: <b>040109DY</b>	Analysis Date: <b>4/2/2009</b>	SeqNo: <b>820724</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	10.59	0.387	10	0	106	85	115	0	0		
Iron	5.3	0.0700	5	0	106	85	115	0	0		
Magnesium	10.54	0.150	10	0	105	85	115	0	0		
Manganese	1.984	0.00500	2	0	99.2	85	115	0	0		
Potassium	10.37	0.340	10	0.152	104	85	115	0	0		
Sodium	10.5	0.400	10	0	105	85	115	0	0		

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Work Order: 09-1994  
 Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: 6020\_D

Sample ID	MB-18653	SampType: MBLK	TestCode: 6020_D	Run ID: ICPMS_090405A	Prep Date: 4/2/2009	Units: mg/L					
		Batch ID: 18653	TestNo: SW6020	FileID: 090405A.B\026SMPL.D	Analysis Date: 4/5/2009	SeqNo: 821841					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	U	0.0020									
Barium	U	0.025									
Cadmium	U	0.0010									
Chromium	U	0.0050									
Lead	U	0.0050									
Selenium	U	0.0050									

Sample ID	LCS-18653	SampType: LCS	TestCode: 6020_D	Run ID: ICPMS_090405A	Prep Date: 4/2/2009	Units: mg/L					
		Batch ID: 18653	TestNo: SW6020	FileID: 090405A.B\027SMPL.D	Analysis Date: 4/5/2009	SeqNo: 821842					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.2603	0.0020	0.3	0	86.8	80.4	127	0	0		
Barium	0.2802	0.025	0.3	0.00657	93.4	79.4	118	0	0		
Cadmium	0.02854	0.0010	0.03	0	95.1	80.7	120	0	0		
Chromium	0.3063	0.0050	0.3	0.001443	102	75.2	128	0	0		
Lead	0.0516	0.0050	0.06	0.00246	86	81.8	118	0	0		
Selenium	0.0555	0.0050	0.06	0	92.5	73.4	138	0	0		

Sample ID	09-1994-01CMS	SampType: MS	TestCode: 6020_D	Run ID: ICPMS_090405A	Prep Date: 4/2/2009	Units: mg/L					
Client ID:	Debbie Benton	Batch ID: 18653	TestNo: SW6020	FileID: 090405A.B\035SMPL.D	Analysis Date: 4/5/2009	SeqNo: 821847					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.1885	0.0020	0.2	0	94.3	75	125	0	0		
Barium	0.247	0.025	0.2	0.0475	99.7	75	125	0	0		
Cadmium	0.01969	0.0010	0.02	0	98.5	75	125	0	0		
Chromium	0.2116	0.0050	0.2	0.0018	106	75	125	0	0		
Lead	0.03752	0.0050	0.04	0.0009695	93.8	75	125	0	0		
Selenium	0.04187	0.0050	0.04	0.001488	105	75	125	0	0		

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 X - See case narrative

Work Order: 09-1994  
 Client Project ID: Ellsworth Sampling

# ANALYTICAL QC SUMMARY REPORT

TestCode: 6020\_D

Sample ID	09-1994-01CMSD	SampType: MSD	TestCode: 6020_D	Run ID: ICPMS_090405A	Prep Date: 4/2/2009				Units: mg/L		
Client ID:	Debbie Benton	Batch ID: 18653	TestNo: SW6020	FileID: 090405A.B\036SMPL.D	Analysis Date: 4/5/2009				SeqNo: 821848		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.1886	0.0020	0.2	0	94.3	75	125	0.1885	0.0530	20	
Barium	0.2479	0.025	0.2	0.0475	100	75	125	0.247	0.364	20	
Cadmium	0.02054	0.0010	0.02	0	103	75	125	0.01969	4.20	20	
Chromium	0.2116	0.0050	0.2	0.0018	106	75	125	0.2116	0	20	
Lead	0.03656	0.0050	0.04	0.0009695	91.4	75	125	0.03752	2.58	20	
Selenium	0.03988	0.0050	0.04	0.001488	99.7	75	125	0.04187	4.87	20	

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Work Order: 09-1994

Client Project ID Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: CARB/BICARB\_W

Sample ID: MBLK 3/31/09		SampType: MBLK		TestCode: CARB/BICAR		Run ID: ALK_090331C		Prep Date: 3/31/2009		Units: mg/L	
		Batch ID: R46187		TestNo: SM2320 B		FileID: 145		Analysis Date: 3/31/2009		SeqNo: 820058	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bicarbonate	U	5.0									
Carbonate	U	5.0									

Sample ID: LCS		SampType: LCS		TestCode: CARB/BICAR		Run ID: ALK_090331C		Prep Date: 3/31/2009		Units: mg/L	
		Batch ID: R46187		TestNo: SM2320 B		FileID: 146		Analysis Date: 3/31/2009		SeqNo: 820059	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bicarbonate	99.42	5.0	100	0	99.4	90	110	0	0		

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Work Order: 09-1994  
Client Project ID Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: COND\_W

Sample ID: LCS	SampType: LCS	TestCode: COND_W	Run ID: COND_090331A	Prep Date: 3/31/2009	Units: μmhos/cm						
	Batch ID: R46175	TestNo: SM2510 B	FileID: 61	Analysis Date: 3/31/2009	SeqNo: 819917						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	97.1	1.00	99.7	0	97.4	90	110	0	0		

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Work Order: 09-1994  
 Client Project ID Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: F\_W

Sample ID: <b>MBLK 032709</b>	SampType: <b>MBLK</b>	TestCode: <b>F_W</b>	Run ID: <b>F_090327A</b>	Prep Date: <b>3/27/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>R46111</b>	TestNo: <b>SM 4500-F C</b>	FileID: <b>47</b>	Analysis Date: <b>3/27/2009</b>	SeqNo: <b>818858</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	U	0.20									

Sample ID: <b>MBLK 032709</b>	SampType: <b>MBLK</b>	TestCode: <b>F_W</b>	Run ID: <b>F_090327A</b>	Prep Date: <b>3/27/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>R46111</b>	TestNo: <b>SM 4500-F C</b>	FileID: <b>47</b>	Analysis Date: <b>3/27/2009</b>	SeqNo: <b>818883</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	U	0.20									

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>F_W</b>	Run ID: <b>F_090327A</b>	Prep Date: <b>3/27/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>R46111</b>	TestNo: <b>SM 4500-F C</b>	FileID: <b>48</b>	Analysis Date: <b>3/27/2009</b>	SeqNo: <b>818859</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	9.7	0.20	10	0	97	95	105	0	0		

Sample ID: LCS	SampType: LCS	TestCode: F_W	Run ID: F_090327A	Prep Date: 3/27/2009	Units: mg/L						
	Batch ID: R46111	TestNo: SM 4500-F C	FileID: 48	Analysis Date: 3/27/2009	SeqNo: 818884						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	10.4	0.20	10	0	104	95	105	0	0		

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Work Order: 09-1994  
Client Project ID Ellsworth Sampling

**ANALYTICAL QC SUMMARY REPORT**

TestCode: PH\_DW

Sample ID: <b>LCS-R46076</b>		SampType: <b>LCS</b>		TestCode: <b>PH_DW</b>		Run ID: <b>PH_090325C</b>		Prep Date: <b>3/25/2009</b>		Units: <b>pH Units</b>	
		Batch ID: <b>R46076</b>		TestNo: <b>E150.1</b>		FileID:		Analysis Date: <b>3/25/2009</b>		SeqNo: <b>817341</b>	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8	1.00	8	0	100	99.3	100.7	0	0		

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Work Order: 09-1994  
 Client Project ID Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID: <b>MBLK 03/31/09</b>	SampType: <b>MBLK</b>	TestCode: <b>TDS_W</b>	Run ID: <b>ANALYTICAL BALANCE_090401A</b>	Prep Date: <b>3/31/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>R46223</b>	TestNo: <b>SM 2540C</b>	FileID: <b>1</b>	Analysis Date: <b>3/31/2009</b>	SeqNo: <b>820475</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	U	10.0									
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Sample ID: LCS	SampType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_090401A	Prep Date: 3/31/2009	Units: mg/L						
	Batch ID: R46223	TestNo: SM 2540C	FileID: 2	Analysis Date: 3/31/2009	SeqNo: 820476						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	406	10.0	400	0	102	90	110	0	0		
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- E - Extrapolated value, value exceeds calibration range.

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- X - See case narrative

Work Order: 09-1994

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestNo: E300.0

Sample ID: MB 03/26/09	SampType: MBLK	TestCode: ANIONS_W	Run ID: IC-DX120_090326A	Prep Date: 3/26/09	Units: mg/L						
	Batch ID: R46116	TestNo: E300.0	FileID:	Analysis Date: 3/26/09	SeqNo: 819038						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	0	0.50									
Nitrite-N	0	0.0040									
Bromide	0	0.050									
Nitrate-N	0	0.010									
Sulfate	0	0.50									

Sample ID: LCS ALLT218076	SampType: LCS	TestCode: ANIONS_W	Run ID: IC-DX120_090326A	Prep Date: 3/26/09	Units: mg/L						
	Batch ID: R46116	TestNo: E300.0	FileID:	Analysis Date: 3/26/09	SeqNo: 819037						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	18.58	2.5	20	0	92.9	90	110	0	0		
Nitrite-N	5.95	0.020	6.09	0	97.7	90	110	0	0		
Bromide	19.66	0.25	20	0	98.3	90	110	0	0		
Nitrate-N	4.421	0.050	4.518	0	97.8	90	110	0	0		
Sulfate	28.77	2.5	30	0	95.9	90	110	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