

April 08, 2009

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

Lab Work Order: 09-1995  
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,

A handwritten signature in cursive script, appearing to read "Carl Smits".

Joseph J Egry IV/ Carl Smits  
Quality Assurance

**WORK ORDER Summary****Evergreen Analytical, Inc.****09-1995****Rpt To:** Brian Dodek**Email To:** bdodek@ltenv.com

4/8/2009 8:45:38 AM

LT Environmental

4600 W 60th Ave

Arvada, CO 80003

(303) 433-9788

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

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-1995-01A	Renee McClure	Groundwater	3/24/09 1340	3/25/09	8021_W *	8021: BTEX, MtBE	<input type="checkbox"/>	<input type="checkbox"/>	3/30/09	4/07/09
09-1995-01B	Renee McClure	Groundwater	3/24/09 1340	3/25/09	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	4/01/09	4/07/09
09-1995-01C	Renee McClure	Groundwater	3/24/09 1340	3/25/09	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	9/20/09
09-1995-01C	Renee McClure	Groundwater	3/24/09 1340	3/25/09	6020_D *	6020: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	9/20/09
09-1995-01D	Renee McClure	Groundwater	3/24/09 1340	3/25/09	CARB/BICARB_W	Carbonate and Bicarbonate	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	4/07/09
09-1995-01D	Renee McClure	Groundwater	3/24/09 1340	3/25/09	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	4/21/09
09-1995-01D	Renee McClure	Groundwater	3/24/09 1340	3/25/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	4/21/09
09-1995-01D	Renee McClure	Groundwater	3/24/09 1340	3/25/09	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	3/25/09
09-1995-01D	Renee McClure	Groundwater	3/24/09 1340	3/25/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	3/31/09
09-1995-01E	Renee McClure	Groundwater	3/24/09 1340	3/25/09	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	4/08/09	3/26/09

**Definitions:** \* - Test Code has a Select List



**Evergreen Analytical, Inc.**

Date: 08-Apr-09

Lab Order: 09-1995

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. TP

**CLIENT SERVICES**

There are no anomalies to report. TP

**GENERAL CHEMISTRY**

Anion sample 09-1995-01 had a high Chloride level and needed diluting. This raised the reporting limit for Nitrate-N, Bromide, Sulfate, and Nitrite-N. There are no other anomalies to report. BNP/MM

**METALS ANALYSIS**

Method SW6010B: The batch 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 RPD for this analyte is well within QC limits and all laboratory control spike (LCS) recoveries are within QC limits, showing the analysis is in control. There are no other anomalies to report. WKH/TP

**GAS CHROMATOGRAPHY**

Method 8021\_W: The MtBE recovery in the LCS is above the QC limits. Since the bias is high and the MtBE in the sample is non detect there is no further action required. There are no other anomalies to report. JCC/JM

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

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

<b>Client Sample ID:</b> Renee McClure <b>Client Project ID:</b> Ellsworth Sampling <b>Date Collected:</b> 3/24/2009 <b>Date Received:</b> 3/25/2009	<b>Lab Work Order</b> 09-1995 <b>Lab Sample ID:</b> 09-1995-01A <b>Sample Matrix:</b> Groundwater
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**AROMATIC VOLATILE ORGANICS**

**Method: SW8021B**

**Prep Method: SW5030B**

<b>Date Prepared:</b> 3/30/2009	<b>Lab File ID:</b> 033009\TA016	<b>Dilution Factor:</b> 1
<b>Date Analyzed:</b> 3/30/2009	<b>Method Blank:</b> MB2033009	

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	70	<b>QC Limits:</b> 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  
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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:** LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 3/31/2009

Signal #1 : E:\DATA\033009\TA016.D\FID1A.CH

Vial: 16

Signal #2 : E:\DATA\033009\TA016.D\FID2B.CH

Acq On : 30 Mar 2009 8:23 pm

Operator: Jennifer C

Sample : 09-1995-01A

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 31 9:15 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

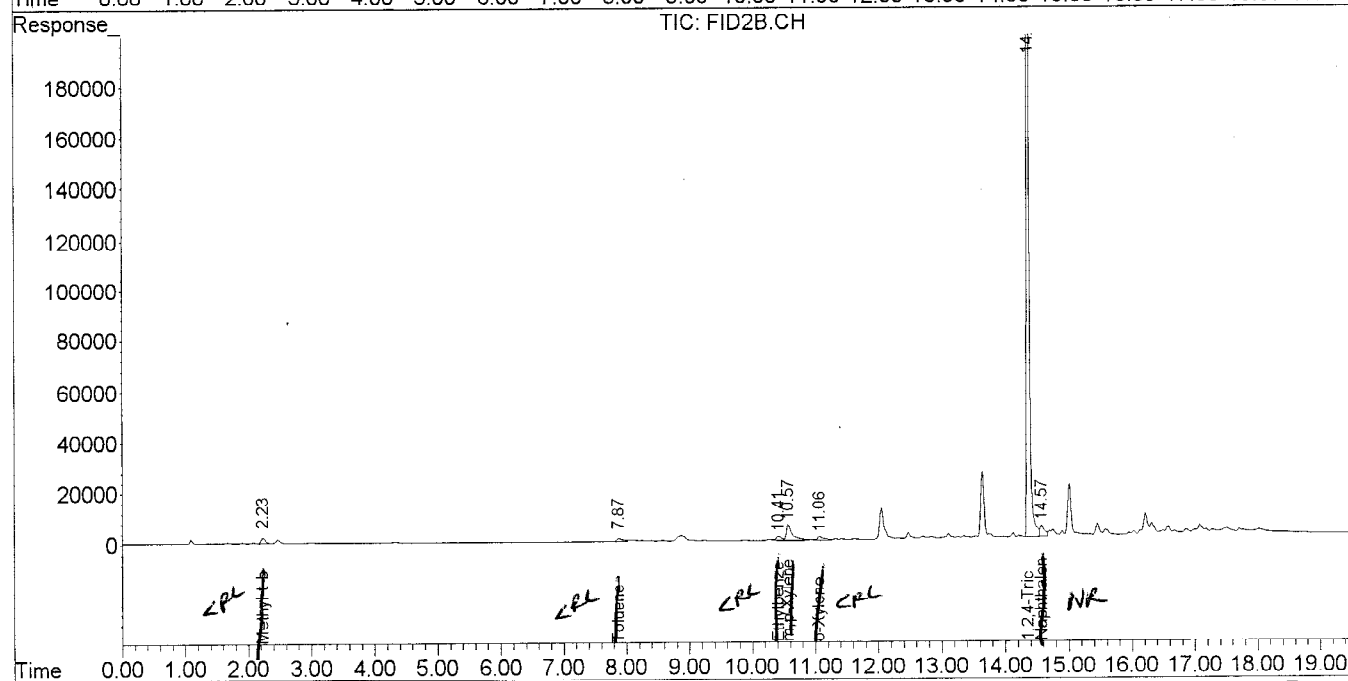
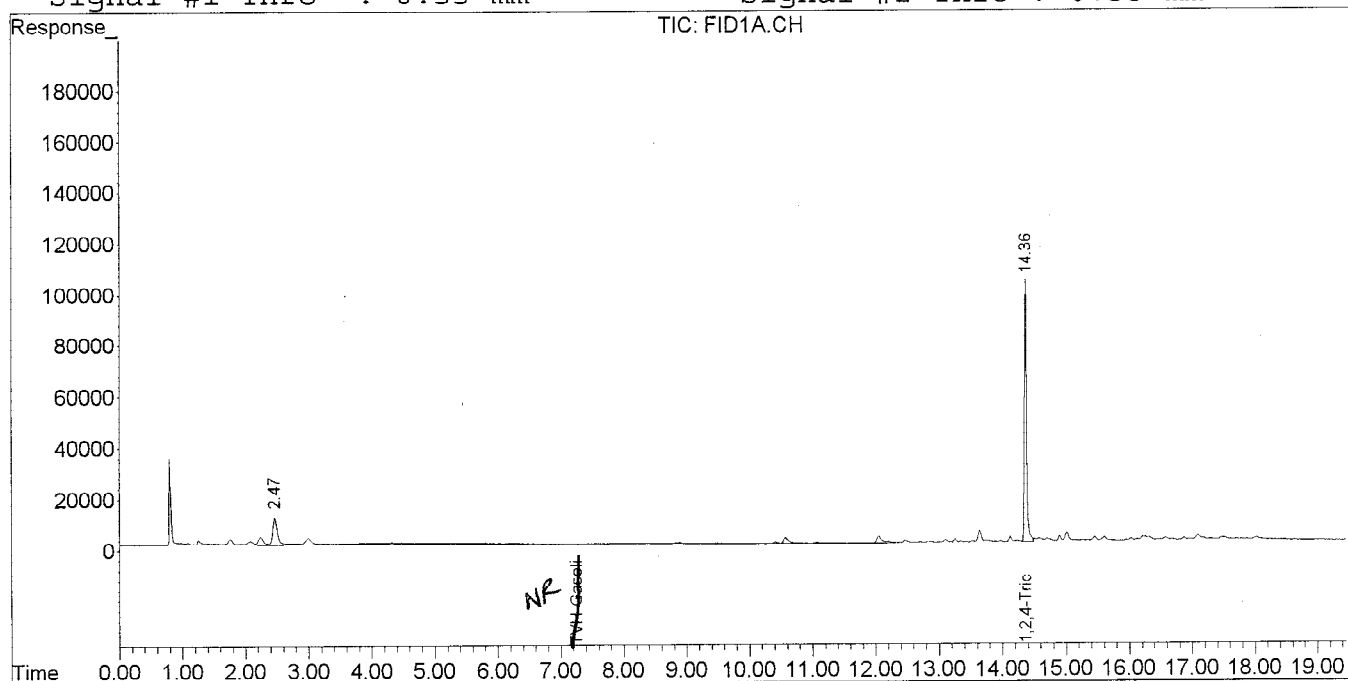
Volume Inj. :

Signal #1 Phase : DB-624

Signal #2 Phase: DB-624

Signal #1 Info : 0.53 mm

Signal #2 Info : 0.53 mm



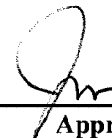
JCC 03/31/09

**Evergreen Analytical, Inc.**

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

**Client Project ID** Ellsworth Sampling**Lab Order:** 09-1995**Units:** mg/L**RSKSOP-175M Headspace****Methane****Method: RSKSOP175M****Prep Method: RSKSOP175M**

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
09-1995-01B	Renee McClure	Groundwater	3/25/09	3/24/09	3/30/09	3/30/09	13	0.040	50

**Comments:****Analyst****Approved**

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
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X - See case narrative  
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**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 3/30/2009

Data File : F:\DATA\033009\FB017.D

Vial: 17

Acq On : 30 Mar 2009 1:57 pm

Operator: Virginia Meyer

Sample : 09-1995-01B

Inst : FID4

Misc : SAMP, MEEP\_W, 50, 10uL

Multiplr: 1.00

IntFile : autoint1.e

Quant Time: Mar 30 15:01 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

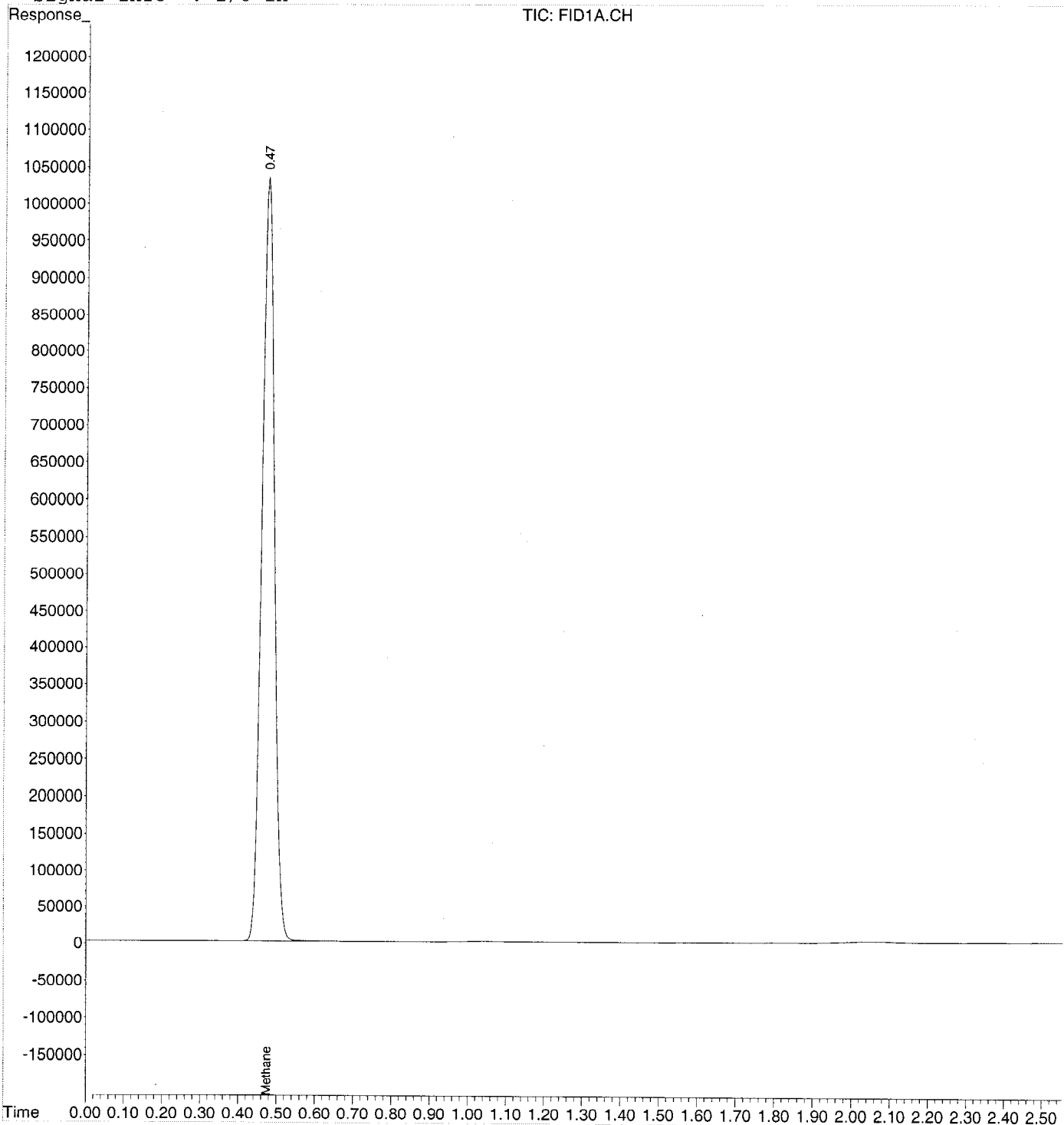
Response via : Multiple Level Calibration

DataAcq Meth : GAS.M

Volume Inj. : 100ul

Signal Phase : Porapak Q 80/100

Signal Info : 1/8 in



# Evergreen Analytical, Inc.

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

Client Sample ID: Renee McClure  
Client Project ID: Ellsworth Sampling  
Date Collected: 3/24/09  
Date Received: 3/25/09

Lab Work Order: 09-1995  
Lab Sample ID: 09-1995-01  
Sample Matrix: Groundwater

## DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 3/30/09  
Date Analyzed: 4/2/09

Lab File ID: 040109PM  
Method Blank: MB-18612

Dilution Factor: 1  
Lab Fraction ID: 09-1995-01C

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	2.3	0.39	mg/L
Iron	7439-89-6	0.093	0.070	mg/L
Magnesium	7439-95-4	0.75	0.15	mg/L
Manganese	7439-96-5	0.0057	0.0050	mg/L
Potassium	7440-09-7	1.9	0.34	mg/L
Sodium	7440-23-5	380	0.40	mg/L

## DISSOLVED METALS

Method: SW6020

Prep Method: SW6020


Date Prepared: 4/2/09  
Date Analyzed: 4/5/09

Lab File ID: 090405A.B\039SMPL.D  
Method Blank: MB-18653

Dilution Factor: 1  
Lab Fraction ID: 09-1995-01C

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	0.0020	mg/L
Barium	7440-39-3	0.073	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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S - Spike Recovery outside accepted limits  
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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 Renee McClure  
Client Project ID Ellsworth Sampling  
Date Collected: 3/24/09 1340  
Date Received: 3/25/09

Lab Work Order 09-1995  
Lab Sample ID: 09-1995-01  
Sample Matrix: Groundwater

## CARBONATE AND BICARBONATE

Method: SM2320 B

Prep Method:

Date Prepared: 3/31/09  
Date Analyzed: 3/31/09

Lab File ID: 149  
Method Blank: MBLK 3/31/09

Dilution Factor: 1  
Lab Fraction ID: 09-1995-01D

Analytes	CAS Number	Result	LQL	Units
Bicarbonate		774	5.0	mg/L
Carbonate		16.2	5.0	mg/L

## SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 3/31/09  
Date Analyzed: 3/31/09

Lab File ID: 65

Dilution Factor: 1  
Lab Fraction ID: 09-1995-01D

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		1290	1.00	µmhos/cm

## FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 3/27/09  
Date Analyzed: 3/27/09

Lab File ID: 65  
Method Blank: MBLK 032709

Dilution Factor: 1  
Lab Fraction ID: 09-1995-01D

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	3.5	0.20	mg/L

## E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 3/25/09  
Date Analyzed: 3/25/09 1310

Dilution Factor: 1  
Lab Fraction ID: 09-1995-01D

Analytes	CAS Number	Result	LQL	Units
pH		8.51	1.00	pH Units

  
Analyst

  
Approved

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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 Renee McClure  
Client Project ID Ellsworth Sampling  
Date Collected: 3/24/09 1340  
Date Received: 3/25/09

Lab Work Order 09-1995  
Lab Sample ID: 09-1995-01  
Sample Matrix: Groundwater

## TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

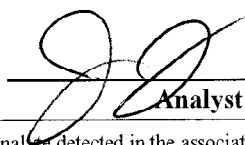
Prep Method:

Date Prepared: 3/26/09  
Date Analyzed: 3/26/09

Lab File ID: 9  
Method Blank: MBLK 03/26/09

Dilution Factor: 1  
Lab Fraction ID: 09-1995-01D

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		855	10.0	mg/L

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

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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: Renee McClure  
 Client Project ID: Ellsworth Sampling  
 Date Collected: 3/24/09 1340  
 Date Received: 3/25/09

Lab Work Order: 09-1995  
 Lab Sample ID: 09-1995-01  
 Sample Matrix: Groundwater

**ANIONS BY IC****Method: E300.0****Prep Method:**

Date Prepared: 3/26/09  
 Date Analyzed: 3/26/09 1105

Lab File ID: 10  
 Method Blank: MB 03/26/09

Dilution Factor: 2  
 Lab Fraction ID: 09-1995-01E

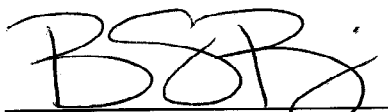

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	75.5	1.0	mg/L
Nitrite-N		U	0.12	mg/L
Nitrate-N		U	0.090	mg/L
Sulfate	7778-80-2	U	1.0	mg/L

Date Prepared: 3/26/09  
 Date Analyzed: 3/26/09 1325

Lab File ID: 15  
 Method Blank: MB 03/26/09

Dilution Factor: 5  
 Lab Fraction ID: 09-1995-01E

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	U	1.0	mg/L


**Analyst**

**Approved**

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 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
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 Surr - Surrogate

Print Date: 3/27/2009

## **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.**

Work Order: 09-1995

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

BatchID: R46159

Sample ID: 09-2063-01AMS	SampType: MS	TestCode: 602	Run ID: TVHBTEX2_090330A				Prep Date: 3/30/2009		Units: µg/L		
	Batch ID: R46159	TestNo: E602	FileID: 033009\TA012				Analysis Date: 3/30/2009		SeqNo: 819627		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	25.67	1.00	25.5	0	101	39	150	0	0		
Toluene	183.4	2.00	183.6	0	99.9	46	148	0	0		
Ethylbenzene	40.85	2.00	36.8	0	111	32	160	0	0		
m,p-Xylene	151.8	2.00	136.3	0	111	50	150	0	0		
o-Xylene	63.36	2.00	57.2	0	111	50	150	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	112.8	0	100	0	113	60	140	0	0		

Sample ID: 09-2063-01AMSD	SampType: MSD	TestCode: 602	Run ID: TVHBTEX2_090330A				Prep Date: 3/30/2009		Units: µg/L		
	Batch ID: R46159	TestNo: E602	FileID: 033009\TA013				Analysis Date: 3/30/2009		SeqNo: 819628		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	25.8	1.00	25.5	0	101	39	150	25.67	0.490	30	
Toluene	184.2	2.00	183.6	0	100	46	148	183.4	0.430	30	
Ethylbenzene	41.17	2.00	36.8	0	112	32	160	40.85	0.785	30	
m,p-Xylene	152.4	2.00	136.3	0	112	50	150	151.8	0.402	30	
o-Xylene	63.92	2.00	57.2	0	112	50	150	63.36	0.882	30	
Surr: 1,2,4-Trichlorobenzene (S)	117.1	0	100	0	117	60	140	0	0	0	

Sample ID: MB2033009	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX2_090330A				Prep Date: 3/30/2009		Units: µg/L		
	Batch ID: R46159	TestNo: SW8021B	FileID: 033009\TA008				Analysis Date: 3/30/2009		SeqNo: 819624		
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)	83.79	0	100	0	83.8	60	140	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: 09-1995  
 Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

BatchID: R46159

Sample ID: MEB032709	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX2_090330A	Prep Date: 3/27/2009	Units: µg/L						
	Batch ID: R46159	TestNo: SW8021B	FileID: 033009\TA009	Analysis Date: 3/30/2009	SeqNo: 819645						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	U	500									
Benzene	U	100									
Toluene	U	200									
Ethylbenzene	U	200									
m,p-Xylene	U	200									
o-Xylene	U	200									
Surr: 1,2,4-Trichlorobenzene (S)	7340	0	10000	0	73.4	60	140	0	0		

Sample ID: LCS2033009	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTEX2_090330A	Prep Date: 3/30/2009	Units: µg/L						
	Batch ID: R46159	TestNo: SW8021B	FileID: 033009\TA010	Analysis Date: 3/30/2009	SeqNo: 819625						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	55.66	5.0	31.2	0	178	70	130	0	0		S
Benzene	25.53	1.0	25.5	0	100	70	130	0	0		
Toluene	181.4	2.0	183.6	0	98.8	70	130	0	0		
Ethylbenzene	40.36	2.0	36.8	0	110	70	130	0	0		
m,p-Xylene	149.7	2.0	136.3	0	110	70	130	0	0		
o-Xylene	62.42	2.0	57.2	0	109	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	112.1	0	100	0	112	60	140	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.

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 X - See case narrative

Evergreen Analytical, Inc.

Date: 30-Mar-09

Work Order: 09-1995

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	0.00080									

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		

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	

Sample ID: <b>09-2029-01BMS</b>		SampType: <b>MS</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>FB031</b>	Analysis Date: <b>3/30/2009</b>				SeqNo: <b>819501</b>		
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		

Sample ID: <b>09-1962-01BDUP</b>		SampType: <b>DUP</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>FB032</b>	Analysis Date: <b>3/30/2009</b>				SeqNo: <b>819493</b>		
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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X - See case narrative

Evergreen Analytical, Inc.

Date: 06-Apr-09

Work Order: 09-1995

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

BatchID: 18612

Sample ID: MB-18612	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090401B					Prep Date: 3/30/2009	Units: mg/L		
	Batch ID: 18612	TestNo: E200.7, Rev.	FileID: 040109DY					Analysis Date: 4/2/2009	SeqNo: 820723		
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: LCS-18612	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_090401B					Prep Date: 3/30/2009	Units: mg/L		
	Batch ID: 18612	TestNo: E200.7, Rev.	FileID: 040109DY					Analysis Date: 4/2/2009	SeqNo: 820724		
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		

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		

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 X - See case narrative

Work Order: 09-1995  
 Client Project ID: Ellsworth Sampling

# ANALYTICAL QC SUMMARY REPORT

BatchID: 18612

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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Work Order: 09-1995

Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

BatchID: 18653

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						
	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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Work Order: 09-1995  
 Client Project ID: Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

BatchID: 18653

Sample ID: 09-1994-01CMSD		SampType: MSD		TestCode: 6020_D		Run ID: ICPMS_090405A		Prep Date: 4/2/2009		Units: mg/L	
		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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Evergreen Analytical, Inc.

Date: 02-Apr-09

Work Order: 09-1995

Client Project ID Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: CARB/BICARB\_W

Sample ID: <b>MBLK 3/31/09</b>		SampType: <b>MBLK</b>		TestCode: <b>CARB/BICAR</b>		Run ID: <b>ALK_090331C</b>		Prep Date: <b>3/31/2009</b>		Units: <b>mg/L</b>	
		Batch ID: <b>R46187</b>		TestNo: <b>SM2320 B</b>		FileID: <b>145</b>		Analysis Date: <b>3/31/2009</b>		SeqNo: <b>820058</b>	
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: <b>LCS</b>		SampType: <b>LCS</b>		TestCode: <b>CARB/BICAR</b>		Run ID: <b>ALK_090331C</b>		Prep Date: <b>3/31/2009</b>		Units: <b>mg/L</b>	
		Batch ID: <b>R46187</b>		TestNo: <b>SM2320 B</b>		FileID: <b>146</b>		Analysis Date: <b>3/31/2009</b>		SeqNo: <b>820059</b>	
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: 09-1995  
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: 09-1995  
 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>818888</b>						
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_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: 818859						
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: 09-1995  
Client Project ID Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: PH\_DW

Sample ID: LCS-R46076	SampType: LCS	TestCode: PH_DW	Run ID: PH_090325C	Prep Date: 3/25/2009	Units: pH Units						
	Batch ID: R46076	TestNo: E150.1	FileID:	Analysis Date: 3/25/2009	SeqNo: 817341						
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: 09-1995  
Client Project ID Ellsworth Sampling

## ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID: <b>MBLK 03/26/09</b>	SampType: <b>MBLK</b>	TestCode: <b>TDS_W</b>	Run ID: <b>ANALYTICAL BALANCE_090327A</b>	Prep Date: <b>3/26/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>R46115</b>	TestNo: <b>SM 2540C</b>	FileID: <b>1</b>	Analysis Date: <b>3/26/2009</b>	SeqNo: <b>818990</b>						
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: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>TDS_W</b>	Run ID: <b>ANALYTICAL BALANCE_090327A</b>	Prep Date: <b>3/26/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>R46115</b>	TestNo: <b>SM 2540C</b>	FileID: <b>2</b>	Analysis Date: <b>3/26/2009</b>	SeqNo: <b>818991</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	405	10.0	400	0	101	90	110	0	0		

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X - See case narrative

Work Order: 09-1995  
 Client Project ID: Ellsworth Sampling

# ANALYTICAL QC SUMMARY REPORT

BatchID: R46117

Sample ID: MB 03/26/09		SampType: MBLK		TestCode: anions_w		Run ID: IC-2000_090326A		Prep Date: 3/26/2009		Units: mg/L	
		Batch ID: R46117		TestNo: E300.0		FileID: 06		Analysis Date: 3/26/2009		SeqNo: 818977	
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-2000_090326A		Prep Date: 3/26/2009		Units: mg/L	
		Batch ID: R46117		TestNo: E300.0		FileID: 05		Analysis Date: 3/26/2009		SeqNo: 818976	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	18.09	2.5	20	0	90.4	90	110	0	0		
Nitrite-N	6.034	0.020	6.09	0	99.1	90	110	0	0		
Bromide	19.85	0.25	20	0	99.2	90	110	0	0		
Nitrate-N	4.369	0.050	4.518	0	96.7	90	110	0	0		
Sulfate	28.2	2.5	30	0	94	90	110	0	0		

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