

WORK ORDER Summary

Evergreen Analytical, Inc.

08-9307

Rpt To: Margaret Ash

Email To: margaret.ash@state.co.us

Colorado Oil & Gas Conservation
Comm.

Email To: peter.gintautas@state.co.us

1120 Lincoln St #801

Denver, CO 80203

(303) 894-2100

12/8/2008 8:24:25 AM

Client Project ID: 200191771

QC Level: LEVEL I+

Comments Report EDD and PDF. Purchase Order OE PHA 09000000001. Invoice in triplicate 6/30/08 to 6/30/09. PM Send a hard copy of report and invoice to Margaret Ash, EDD in COGCC format to Peter Gintautas and M. Ash.
John Axelson is not in Denver office. KSH 10/

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-9307-01A	Bracken	Groundwater	12/04/08 1400	12/05/08	8260_W * ^	8260B: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	12/10/08	12/18/08
08-9307-01B	Bracken	Groundwater	12/04/08 1400	12/05/08	TVH_W * ^	8015: TVH-Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	12/10/08	12/18/08
08-9307-01C	Bracken	Groundwater	12/04/08 1400	12/05/08	TEH_W * ^	8015: TEH-Diesel	<input type="checkbox"/>	<input type="checkbox"/>	12/10/08	12/11/08
08-9307-01D	Bracken	Groundwater	12/04/08 1400	12/05/08	200.7_D *	200.7: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/19/08	6/02/09
08-9307-01D	Bracken	Groundwater	12/04/08 1400	12/05/08	200.8_D *	200.8: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	12/19/08	6/02/09
08-9307-01E	Bracken	Groundwater	12/04/08 1400	12/05/08	ALK_WGRP *	Alkalinity	<input type="checkbox"/>	<input type="checkbox"/>	12/19/08	12/18/08
08-9307-01E	Bracken	Groundwater	12/04/08 1400	12/05/08	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	12/19/08	12/06/08
08-9307-01F	Bracken	Groundwater	12/04/08 1400	12/05/08	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	12/19/08	1/01/09
08-9307-01G	Bracken	Groundwater	12/04/08 1400	12/05/08	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	12/19/08	12/05/08
08-9307-01H	Bracken	Groundwater	12/04/08 1400	12/05/08	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	12/19/08	12/18/08

Page 1 of 1

002
mail Original Report to: COGIC
Attn MARYAMT ASH
Address 1120 LINCOLN RD
City DENVER State CO Zip 80203
Tel # 303 894 2100 Fax # 2109 E-mail maryam.ash@coptic.org

4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(877) 737-4521
e-mail info@evergreenanalytical.com

Report Results by: _____ (Date)*

Standard 2 working weeks ☒

UST Analyses per Fee Schedule ☐

* Rush: ☐ less than 24 hrs, 150% ☐ 1 - 2 work days, 100%

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

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

REPORT ALSO BY ☐ FAX ☐ PDF ☐ EDD

REPORT CHROMATOGRAMS ☐ YES

Mail Invoice to:

Attn _____

Address

City _____ State _____ Zip _____

Tel # _____ Fax # _____

Project ID# 200191771

P.O. _____ Quote _____

Sampler 7-44

NOTE: Identify Known Hazards Below

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME
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MATRIX

ANALYSES (check analysis)

**For Laboratory
Use Only**

W.O.#08-9307

B.O.F. # 19257

C/S (O) 1457 / PL

C/S (I) 1153 / HV

Temp. °C 2-0 / Ice ✓Seals Present Y / ~~M~~ / NA

Samples Pres ~~X~~ / N / NA

By 22

[illegible]

Instructions:

**** Important Note:** See reverse side for Terms and Conditions.

Anions: Bromide, Chloride, Nitrate, Nitrite, O-Phosphate, Sulfate (Circle)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12-5-08 8:35	<i>[Signature]</i>	12/5/08 9:00				

Evergreen Analytical, Inc.

Date: 19-Dec-08

Lab Order: 08-9307
Client Project ID 200191771

CASE NARRATIVE

SAMPLE RECEIVING

Sample(s) were hand delivered to the laboratory by the client.

Custody seals were not present.

The temperature of the sample(s) upon arrival was 2.0°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. JE

CLIENT SERVICES

On 12/5 via phone Margaret Ash requested that Alk/Carb/Bicarb be added. Methane was logged in per the bottle order. There are no other anomalies to report. SG/JE

GENERAL CHEMISTRY

There are no anomalies to report. MM

METALS ANALYSIS

There are no anomalies to report. WKH

GAS CHROMATOGRAPHY

Method TEH_W: There are no anomalies to report. MDS

Method TVH_W: The surrogate recovery for the laboratory control spike (LCS) and matrix spikes (MS/MSD; on another client's sample) is above the QC limit; all spiked analyte recoveries are within QC limits, so the sample results are not affected. There are no other anomalies to report. VM

Method RSK175: There are no anomalies to report. VM

Evergreen Analytical, Inc.

Date: 19-Dec-08

Lab Order: 08-9307

Client Project ID 200191771

CASE NARRATIVE

GAS CHROMATOGRAPHY/MASS SPECTROMETRY

Method 8260_W: There are no anomalies to report. DC

Evergreen Analytical, Inc.

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

Client Sample ID: Bracken
Client Project ID: 200191771
Date Collected: 12/4/2008
Date Received: 12/5/2008
Date Prepared: 12/11/2008
Date Analyzed: 12/11/2008
Percent Moisture NA

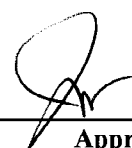
Lab Work Order 08-9307
Lab Sample ID: 08-9307-01A
Sample Matrix: Groundwater
Lab File ID: VOA31211\1201012.D
Method Blank: MB3121108-W
Prep Factor: 1.000
Dilution Factor: 1.00

Method: SW8260B
Prep Method: SW5030B

VOLATILE ORGANICS

Analytes	CAS Number	Result	Units: µg/L LQL
Benzene	71-43-2	U	1.0
Ethylbenzene	100-41-4	U	2.0
Toluene	108-88-3	U	2.0
m,p-Xylene	1330-20-7	U	4.0
o-Xylene	95-47-6	U	2.0
Surr: 1,2-Dichloroethane-d4	17060-07-0	104	QC Limits: 70-130 %REC
Surr: 4-Bromofluorobenzene	460-00-4	91	QC Limits: 70-130 %REC
Surr: Toluene-d8	2037-26-5	96	QC Limits: 70-130 %REC


Analyst


Approved

Qualifiers: See the case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result
E - Extrapolated value. Value exceeds calibration range
H - Prep or Analytical holding time exceeded
S - Spike Recovery outside acceptance limits
X - See case narrative
* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

Definitions: NA - Not Applicable
LQL - Lower Quantitation Limit
MDL - Method Detection Limit
Surr - Surrogate Standard

Print Date: 12/12/2008

Quantitation Report

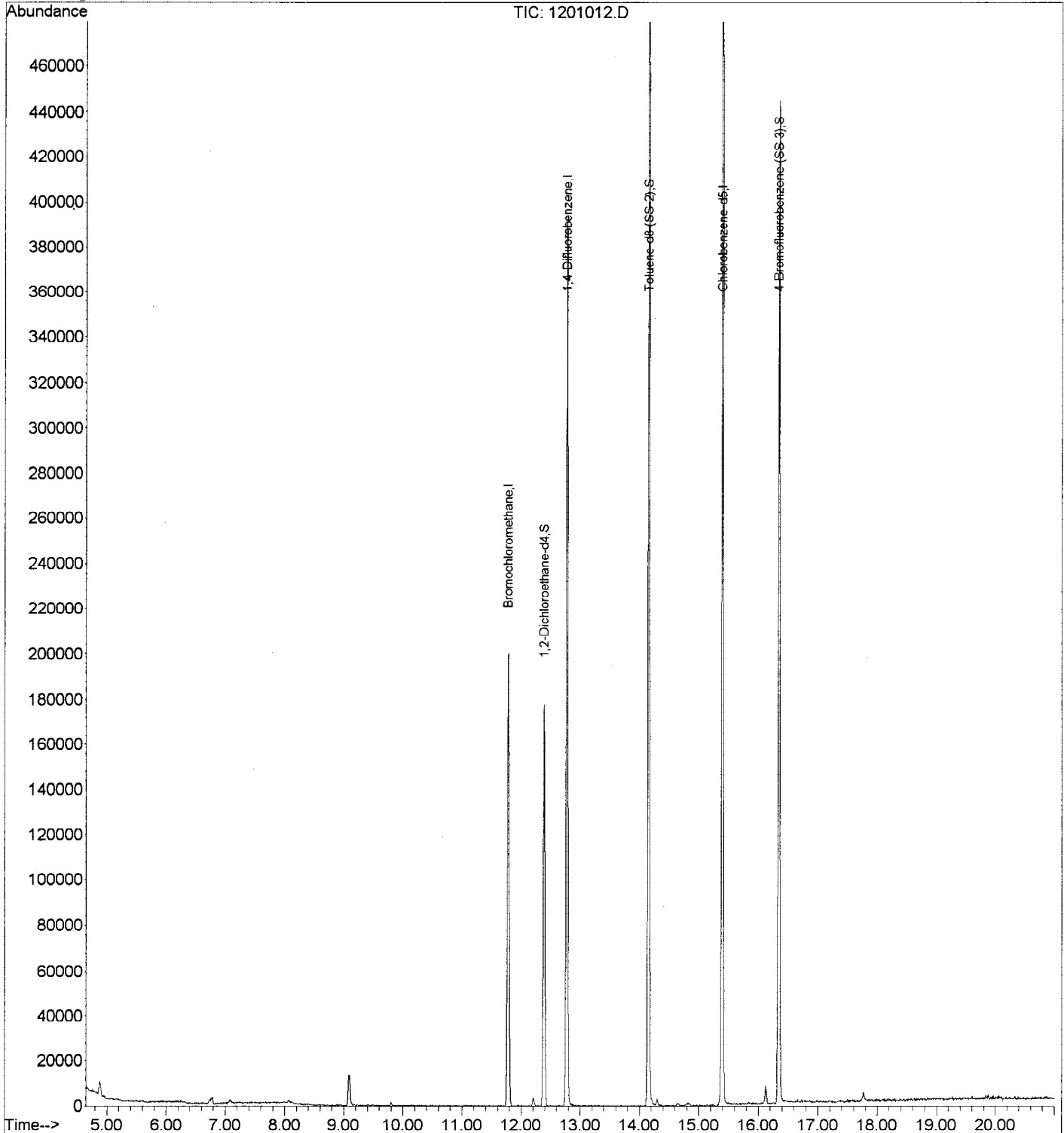
Data File : C:\HPCHEM\1\DATA\VOA31211\1201012.D
 Acq On : 11 Dec 2008 5:00 pm
 Sample : 08-9307-01A
 Misc : SAMP 8260_W
 MS Integration Params: rteint.p
 Quant Time: Dec 12 9:27 2008

Vial: 12
 Operator: Don Chamot
 Inst : VOA3
 Multiplr: 1.00

900

Quant Results File: 82601210.RES

Method : C:\HPCHEM\1\METHODS\82601210.M (RTE Integrator)
 Title : 8260
 Last Update : Thu Dec 11 11:09:45 2008
 Response via : Initial Calibration



2/12/08

Evergreen Analytical, Inc.

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

Client Sample ID: Bracken
Client Project ID: 200191771
Date Collected: 12/4/08
Date Received: 12/5/08

Lab Work Order 08-9307
Lab Sample ID: 08-9307-01B
Sample Matrix: Groundwater

TOTAL VOLATILE HYDROCARBONS

Method: SW8015B MOD

Prep Method: SW5030B

Date Prepared: 12/9/08

Lab File ID: TVB41209\022F

Dilution Factor: 1

Date Analyzed: 12/9/08

Method Blank: MB4120908

Analytes	CAS Number	Result	LQL	Units
TVH-Gasoline	86290-81-5	U	0.20	mg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	116	QC Limits: 60-140	%REC

VM

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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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

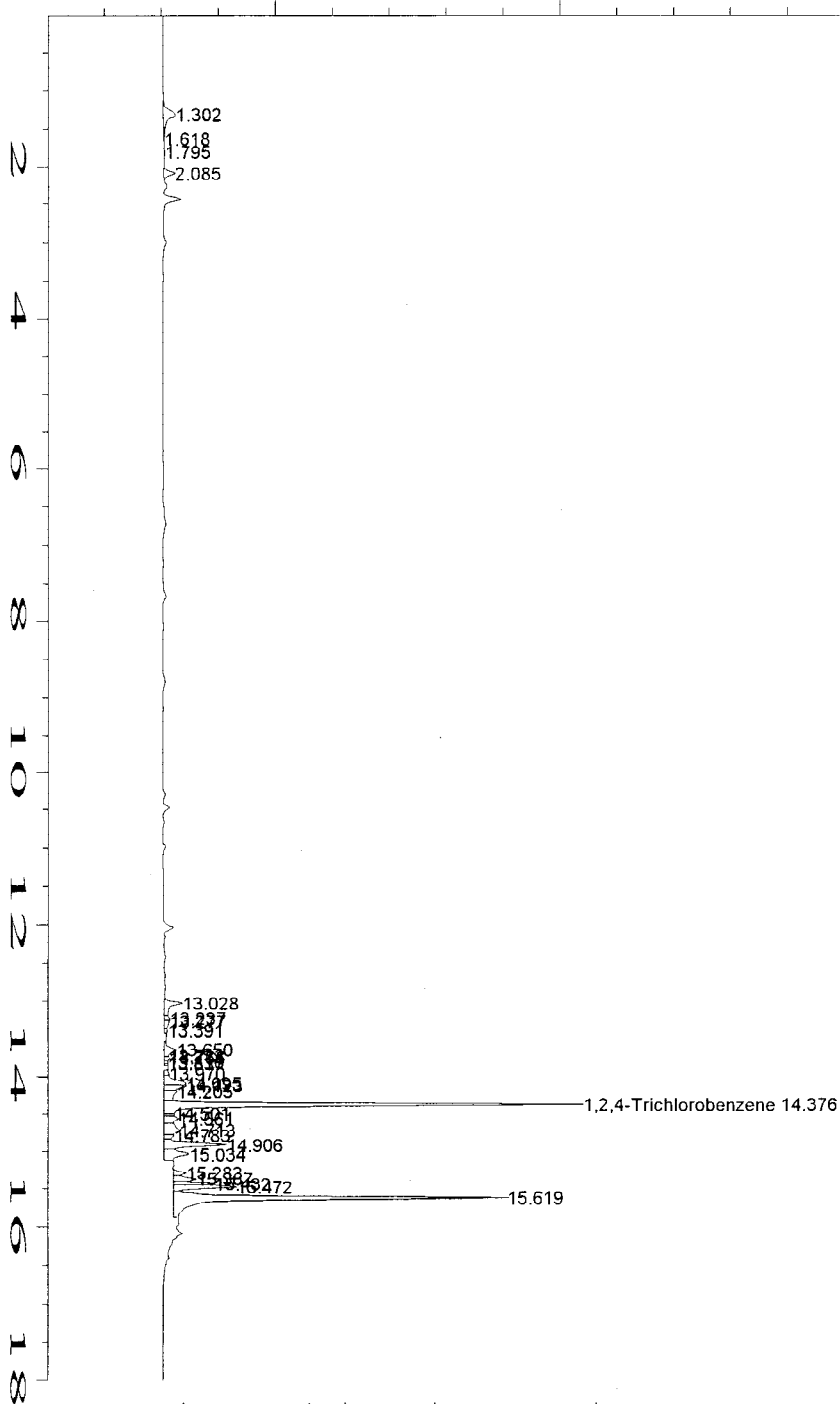
Print Date: 12/10/08

4.0e4

3.0e4

2.0e4

1.0e4



Data File Name	: C:\HPCHEM\1\DATA\TVB41209\022F0101.D	Page Number	: 1
Operator	: Virginia Meyer	Vial Number	: 22
Instrument	: TVHBTEX4	Injection Number	: 1
Sample Name	: 08-9307-01B	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TS40717M.MTH
Acquired on	: 09 Dec 08 10:49 PM	Analysis Method	: TS40717M.MTH
Report Created on:	09 Dec 08 11:08 PM	Sample Amount	: 0
Last Recalib on	: 18 JUN 08 09:29 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

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

Lab Order: 08-9307
Client Project ID: 200191771
Matrix: Groundwater

Date Received: 12/5/08
Date Prepared: 12/8/08
Prep Batch ID: 17483
Units: mg/L

Total Extractable Hydrocarbons
Diesel Fuel (No. 2)

Method: SW8015B Mod

Prep Method: SW3510C

Lab ID	Client Sample ID	File ID	Date Collected	Date Analyzed	DF	Surr REC	Sample Results	LQL
08-9307-01C	Bracken	FID61208\067R	12/4/08	12/8/08	1	42%	U	0.40

Surrogate QC Limits 35-130 %REC

Surr: TBB

MS

Analyst

87

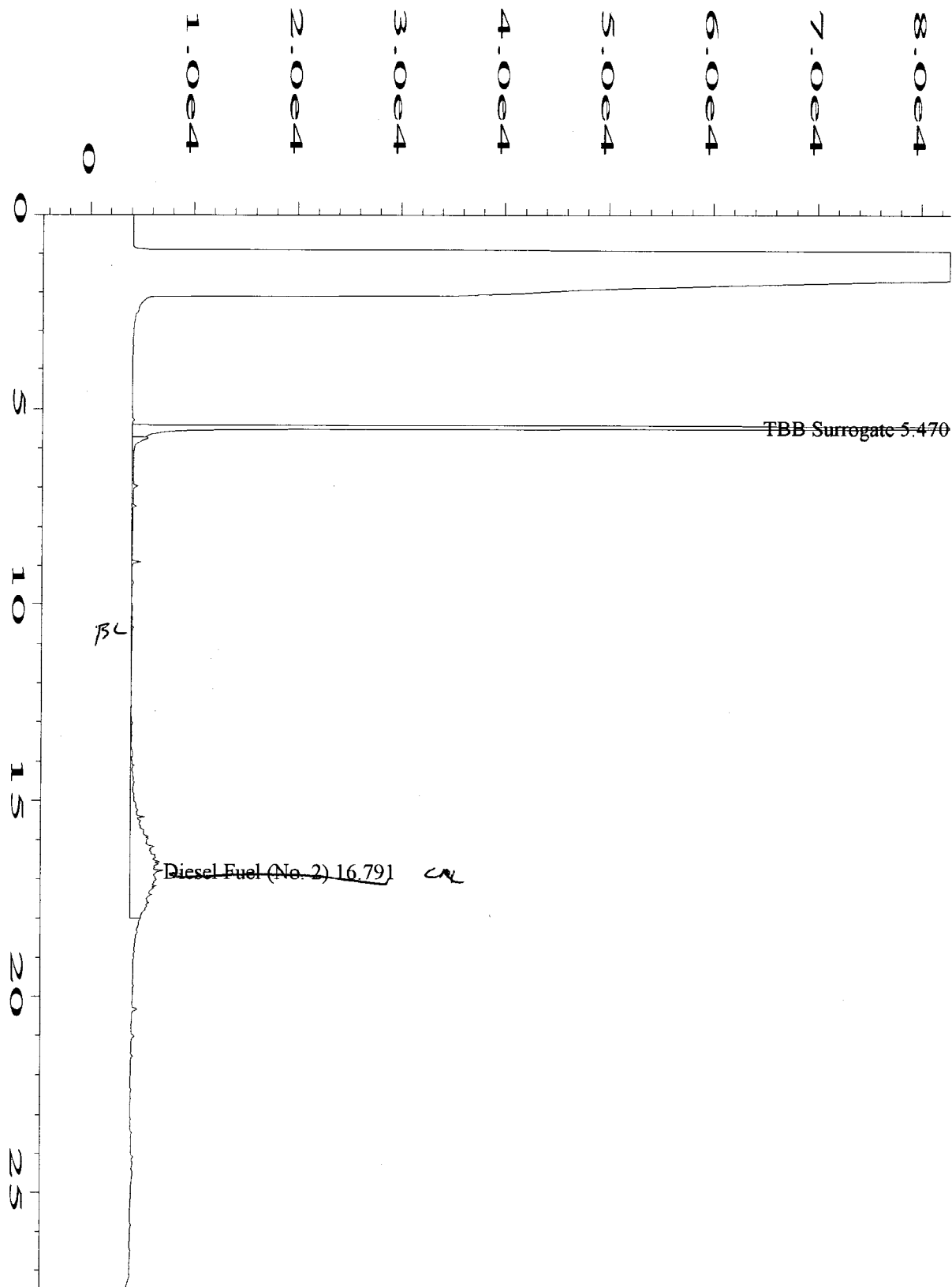
Approved

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: DF - Dilution Factor
LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 12/9/08

user modified



Data File Name	: C:\HPCHEM\1\DATA\FID61208\067R0101.D	Page Number	: 1
Operator	: Marcus Stephenson	Vial Number	: 67
Instrument	: FID6	Injection Number	: 1
Sample Name	: 08-9307-01C	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: DUALFID.MTH
Acquired on	: 08 Dec 08 06:35 PM	Analysis Method	: DR0417.MTH
Report Created on:	: 09 Dec 08 09:36 AM	Sample Amount	: 0
Last Recalib on	: 18 APR 08 10:01 AM	ISTD Amount	:
Multiplier	: 1		

1x MS 12-9-08

Evergreen Analytical, Inc.

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

Client Sample ID: Bracken
Client Project ID: 200191771
Date Collected: 12/4/08
Date Received: 12/5/08

Lab Work Order: 08-9307
Lab Sample ID: 08-9307-01
Sample Matrix: Groundwater

DISSOLVED METALS

Method: E200.7, Rev. 4.4

Prep Method: E200.7/SW3010A

Date Prepared: 12/10/08
Date Analyzed: 12/11/08

Lab File ID: 121108am
Method Blank: MB-17499

Dilution Factor: 1
Lab Fraction ID: 08-9307-01D

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	45.5	0.387	mg/L
Iron	7439-89-6	U	0.0700	mg/L
Magnesium	7439-95-4	10.1	0.150	mg/L
Potassium	7440-09-7	2.65	0.340	mg/L
Sodium	7440-23-5	236	0.400	mg/L

DISSOLVED METALS

Method: E200.8

Prep Method: E200.8

Date Prepared: 12/16/08
Date Analyzed: 12/17/08

Lab File ID: 081217A.B\062SMPL.D
Method Blank: MB-17557

Dilution Factor: 1
Lab Fraction ID: 08-9307-01D

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	0.00200	mg/L
Barium	7440-39-3	0.200	0.0100	mg/L
Cadmium	7440-43-9	U	0.000500	mg/L
Chromium	7440-47-3	0.00689	0.00220	mg/L
Manganese	7439-96-5	0.00627	0.00500	mg/L
Silver	7440-22-4	U	0.000200	mg/L
Zinc	7440-66-6	U	0.00500	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: 12/18/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Bracken
Client Project ID: 200191771
Date Collected: 12/4/08 1400
Date Received: 12/5/08

Lab Work Order: 08-9307
Lab Sample ID: 08-9307-01
Sample Matrix: Groundwater

ALKALINITY

Method: SM2320B

Prep Method:

Date Prepared: 12/9/08

Lab File ID: 18

Dilution Factor: 1

Date Analyzed: 12/9/08

Method Blank: MBLK 12/09/08

Lab Fraction ID: 08-9307-01E

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		671	5.0	mg/L CaCO ₃
Bicarbonate		671	5.0	mg/L CaCO ₃
Carbonate		U	5.0	mg/L CaCO ₃

FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 12/10/08

Lab File ID: 5

Dilution Factor: 1

Date Analyzed: 12/10/08

Method Blank: MBLK 121008

Lab Fraction ID: 08-9307-01F

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	0.86	0.20	mg/L

E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 12/5/08


Dilution Factor: 1

Date Analyzed: 12/5/08 0941

Lab Fraction ID: 08-9307-01G

Analytes	CAS Number	Result	LQL	Units
pH		7.73	1.00	pH Units


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: 12/10/2008

Evergreen Analytical, Inc.

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

Client Sample ID: Bracken
Client Project ID: 200191771
Date Collected: 12/4/08 1400
Date Received: 12/5/08

Lab Work Order: 08-9307
Lab Sample ID: 08-9307-01
Sample Matrix: Groundwater

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 12/5/08
Date Analyzed: 12/5/08 1149

Lab File ID: 13
Method Blank: MB 12/05/08

Dilution Factor: 1
Lab Fraction ID: 08-9307-01E

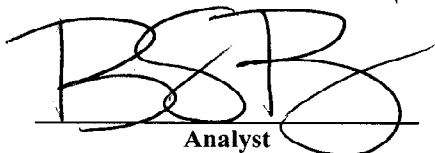
Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	30.8	0.50	mg/L
Nitrite		U	0.20	mg/L
Bromide	7647-15-6	U	0.20	mg/L
Nitrate		U	0.20	mg/L

Date Prepared: 12/5/08
Date Analyzed: 12/5/08 1418

Lab File ID: 19
Method Blank: MB 12/05/08

Dilution Factor: 5
Lab Fraction ID: 08-9307-01E

Analytes	CAS Number	Result	LQL	Units
Sulfate	7778-80-2	118	2.5	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: 12/9/08

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

Client Project ID 200191771

 Lab Order: 08-9307
 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
08-9307-01H	Bracken	Groundwater	12/5/08	12/4/08	12/10/08	12/10/08	U	0.00080	1

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: 12/11/08

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: 08-9307

Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: MB3121108-W	SampType: MBLK	TestCode: 8260_W	Run ID: VOA-3_081211A	Prep Date: 12/11/2008	Units: µg/L						
	Batch ID: R44012	TestNo: SW8260B	FileID: VOA31211\0301003.D	Analysis Date: 12/11/2008	SeqNo: 780045						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	U	1.0									
Ethylbenzene	U	2.0									
Toluene	U	2.0									
m,p-Xylene	U	4.0									
o-Xylene	U	2.0									
Surr: 1,2-Dichloroethane-d4	51.8	0	50	0	104	70	130	0	0		
Surr: 4-Bromofluorobenzene	44.34	0	50	0	88.7	70	130	0	0		
Surr: Toluene-d8	46.05	0	50	0	92.1	70	130	0	0		

Sample ID: LCS3121108H-W	SampType: LCS	TestCode: 8260_W	Run ID: VOA-3_081211A	Prep Date: 12/11/2008	Units: µg/L						
	Batch ID: R44012	TestNo: SW8260B	FileID: VOA31211\0401004.D	Analysis Date: 12/11/2008	SeqNo: 780046						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	55.15	1.0	50	0	110	70	130	0	0		
Ethylbenzene	53.16	2.0	50	0	106	70	130	0	0		
Toluene	53.56	2.0	50	0	107	70	140	0	0		
m,p-Xylene	49.31	4.0	50	0	98.6	46	145	0	0		
o-Xylene	50.69	2.0	50	0	101	55	137	0	0		
Surr: 1,2-Dichloroethane-d4	50.74	0	50	0	101	70	130	0	0		
Surr: 4-Bromofluorobenzene	52.57	0	50	0	105	70	130	0	0		
Surr: Toluene-d8	52.68	0	50	0	105	70	130	0	0		

Sample ID: 08-9256-01AMS	SampType: MS	TestCode: 8260_W	Run ID: VOA-3_081211A	Prep Date: 12/11/2008	Units: µg/L						
	Batch ID: R44012	TestNo: SW8260B	FileID: VOA31211\0601006.D	Analysis Date: 12/11/2008	SeqNo: 780048						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	55.29	1.0	50	0	111	59	132	0	0		
Ethylbenzene	55.29	2.0	50	0	111	68	130	0	0		
Toluene	55.1	2.0	50	0	110	56	142	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: 08-9307

Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID: 08-9256-01AMS	SampType: MS	TestCode: 8260_W	Run ID: VOA-3_081211A	Prep Date: 12/11/2008	Units: µg/L						
	Batch ID: R44012	TestNo: SW8260B	FileID: VOA31211\0601006.D	Analysis Date: 12/11/2008	SeqNo: 780048						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	52.29	4.0	50	0	105	29	134	0	0		
o-Xylene	52.99	2.0	50	0	106	45	133	0	0		
Surr: 1,2-Dichloroethane-d4	50.28	0	50	0	101	70	130	0	0		
Surr: 4-Bromofluorobenzene	53.1	0	50	0	106	70	130	0	0		
Surr: Toluene-d8	52.81	0	50	0	106	70	130	0	0		

Sample ID: 08-9256-01AMSD	SampType: MSD	TestCode: 8260_W	Run ID: VOA-3_081211A	Prep Date: 12/11/2008	Units: µg/L						
	Batch ID: R44012	TestNo: SW8260B	FileID: VOA31211\0701007.D	Analysis Date: 12/11/2008	SeqNo: 780049						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.52	1.0	50	0	109	59	132	55.29	1.40	30	
Ethylbenzene	54.1	2.0	50	0	108	68	130	55.29	2.18	30	
Toluene	53.5	2.0	50	0	107	56	142	55.1	2.95	30	
m,p-Xylene	50.74	4.0	50	0	101	29	134	52.29	3.01	30	
o-Xylene	51.84	2.0	50	0	104	45	133	52.99	2.19	30	
Surr: 1,2-Dichloroethane-d4	51.83	0	50	0	104	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	52.59	0	50	0	105	70	130	0	0	0	
Surr: Toluene-d8	52.39	0	50	0	105	70	130	0	0	0	

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Work Order: 08-9307
Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

BatchID: R43941

Sample ID: MB4120908	SampType: MBLK	TestCode: TVH_W	Run ID: TVHBTEX4_081209B	Prep Date: 12/9/08	Units: mg/L						
	Batch ID: R43941	TestNo: SW8015B Mo	FileID: TVB41209\001F	Analysis Date: 12/9/08	SeqNo: 778518						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	U	0.20									
Surr: 1,2,4-Trichlorobenzene (S)	114.2	0	100	0	114	60	140	0	0		

Sample ID: LCS4120908	SampType: LCS	TestCode: TVH_W	Run ID: TVHBTEX4_081209B	Prep Date: 12/9/08	Units: mg/L						
	Batch ID: R43941	TestNo: SW8015B Mo	FileID: TVB41209\002F	Analysis Date: 12/9/08	SeqNo: 778519						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	2.102	0.20	2.2	0	95.5	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	156.7	0	100	0	157	60	140	0	0		S

Sample ID: 08-9342-06AMS	SampType: MS	TestCode: TVH_W	Run ID: TVHBTEX4_081209B	Prep Date: 12/9/08	Units: mg/L						
	Batch ID: R43941	TestNo: SW8015B Mo	FileID: TVB41209\005F	Analysis Date: 12/9/08	SeqNo: 778521						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	1.796	0.20	2.2	0	81.6	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	155.8	0	100	0	156	60	140	0	0		S

Sample ID: 08-9342-06AMSD	SampType: MSD	TestCode: TVH_W	Run ID: TVHBTEX4_081209B	Prep Date: 12/9/08	Units: mg/L						
	Batch ID: R43941	TestNo: SW8015B Mo	FileID: TVB41209\006F	Analysis Date: 12/9/08	SeqNo: 778522						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVH-Gasoline	1.818	0.20	2.2	0	82.6	70	130	1.796	1.22	30	
Surr: 1,2,4-Trichlorobenzene (S)	151.6	0	100	0	152	60	140	0	0	0	S

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Work Order: 08-9307
Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

BatchID: 17483

Sample ID: MB-17483	SampType: MBLK	TestCode: TEH_W	Run ID: FID6_081208A	Prep Date: 12/8/08	Units: mg/L						
	Batch ID: 17483	TestNo: SW8015B Mo	FileID: FID61208\064R	Analysis Date: 12/8/08	SeqNo: 777856						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Fuel (No. 2)
Surr: TBBU
1.247
0.40
0
2
0
62.3
35
130
0
0

Sample ID: LCS-17483	SampType: LCS	TestCode: TEH_W	Run ID: FID6_081208A	Prep Date: 12/8/08	Units: mg/L						
	Batch ID: 17483	TestNo: SW8015B Mo	FileID: FID61208\065R	Analysis Date: 12/8/08	SeqNo: 777857						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Fuel (No. 2)
Surr: TBB18.73
1.325
0.40
0
20
0
93.7
70
130
0
0
66.3
35
130
0
0

Sample ID: LCS-17483D	SampType: LCSD	TestCode: TEH_W	Run ID: FID6_081208A	Prep Date: 12/8/08	Units: mg/L						
	Batch ID: 17483	TestNo: SW8015B Mo	FileID: FID61208\066R	Analysis Date: 12/8/08	SeqNo: 777858						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Fuel (No. 2)
Surr: TBB20.24
1.419
0.40
0
20
0
101
70
130
18.73
7.77
30
70.9
35
130
0
0
0

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Work Order: 08-9307
Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

BatchID: 17499

Sample ID: MB-17499	SampType: MBLK	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081211A	Prep Date: 12/10/2008	Units: mg/L						
	Batch ID: 17499	TestNo: E200.7, Rev.	FileID: 121108am	Analysis Date: 12/11/2008	SeqNo: 781248						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	U	0.39									
Iron	U	0.070									
Magnesium	U	0.15									
Potassium	U	0.34									
Sodium	U	0.40									

Sample ID: LCS-17499	SampType: LCS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_081211A	Prep Date: 12/10/2008	Units: mg/L						
	Batch ID: 17499	TestNo: E200.7, Rev.	FileID: 121108am	Analysis Date: 12/11/2008	SeqNo: 779693						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	9.895	0.387	10	0	98.9	74	113	0	0		
Iron	4.984	0.0700	5	0	99.7	76.6	115	0	0		
Magnesium	9.96	0.150	10	0	99.6	76.7	114	0	0		
Potassium	10.01	0.340	10	0	100	70.9	115	0	0		
Sodium	10.15	0.400	10	0.1683	102	80	120	0	0		

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Work Order: 08-9307

Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

BatchID: 17557

Sample ID: MB-17557	SampType: MBLK	TestCode: 200.8_D	Run ID: ICPMS_081217A	Prep Date: 12/16/2008	Units: mg/L						
	Batch ID: 17557	TestNo: E200.8	FileID: 081217A.B\051SMPL.D	Analysis Date: 12/17/2008	SeqNo: 781746						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	U	0.00200									
Barium	U	0.0100									
Cadmium	U	0.000500									
Chromium	U	0.00220									
Manganese	U	0.00500									
Silver	U	0.000200									
Zinc	U	0.00500									

Sample ID: LCS-17557	SampType: LCS	TestCode: 200.8_D	Run ID: ICPMS_081217A	Prep Date: 12/16/2008	Units: mg/L						
	Batch ID: 17557	TestNo: E200.8	FileID: 081217A.B\052SMPL.D	Analysis Date: 12/17/2008	SeqNo: 781747						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.2507	0.00200	0.25	0.000895	100	85	115	0	0		
Barium	0.2588	0.0100	0.25	0	104	85	115	0	0		
Cadmium	0.02502	0.000500	0.025	0	100	85	115	0	0		
Chromium	0.2651	0.00220	0.25	0.001639	106	85	115	0	0		
Manganese	0.547	0.00500	0.5	0	109	85	115	0	0		
Silver	0.02663	0.000200	0.025	0	107	85	115	0	0		
Zinc	0.563	0.00500	0.536	0	105	85	115	0	0		

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Work Order: 08-9307

Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

TestCode: ALK_WGRP

Sample ID	MBLK 12/09/08	SampType:	MBLK	TestCode:	ALK_WGRP	Run ID:	ALK_081209A	Prep Date:	12/9/2008	Units:	mg/L CaCO3		
		Batch ID:	R43923	TestNo:	SM2320B	FileID:	1	Analysis Date:	12/9/2008	SeqNo:	778045		
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	U	5.0
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Sample ID	MBLK 12/9/08	SampType:	MBLK	TestCode:	ALK_WGRP	Run ID:	ALK_081209A	Prep Date:	12/9/2008	Units:	mg/L CaCO3		
		Batch ID:	R43923	TestNo:	SM2320B	FileID:	113	Analysis Date:	12/9/2008	SeqNo:	778092		
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	U	5.0
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Sample ID	LCS	SampType:	LCS	TestCode:	ALK_WGRP	Run ID:	ALK_081209A	Prep Date:	12/9/2008	Units:	mg/L CaCO3		
		Batch ID:	R43923	TestNo:	SM2320B	FileID:	2	Analysis Date:	12/9/2008	SeqNo:	778046		
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	102.9	5.0	100	0	103	90	110	0	0
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Sample ID	LCS	SampType: LCS	TestCode: ALK_WGRP	Run ID: ALK_081209A	Prep Date: 12/9/2008	Units: mg/L CaCO3						
		Batch ID: R43923	TestNo: SM2320B	FileID: 114	Analysis Date: 12/9/2008	SeqNo: 778093						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	103.1	5.0	100	0	103	90	110	0	0
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Work Order: 08-9307
Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

TestCode: F_W

Sample ID	MBLK 121008	SampType: MBLK	TestCode: F_W	Run ID: F_081210A	Prep Date: 12/10/2008	Units: mg/L					
		Batch ID: R43958	TestNo: SM 4500-F C	FileID: 47	Analysis Date: 12/10/2008	SeqNo: 778905					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	U	0.20									

Sample ID	MBLK 121008	SampType: MBLK	TestCode: F_W	Run ID: F_081210A	Prep Date: 12/10/2008	Units: mg/L					
		Batch ID: R43958	TestNo: SM 4500-F C	FileID: 73	Analysis Date: 12/10/2008	SeqNo: 778930					
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_081210A	Prep Date: 12/10/2008	Units: mg/L					
		Batch ID: R43958	TestNo: SM 4500-F C	FileID: 48	Analysis Date: 12/10/2008	SeqNo: 778906					
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_081210A	Prep Date: 12/10/2008	Units: mg/L					
		Batch ID: R43958	TestNo: SM 4500-F C	FileID: 74	Analysis Date: 12/10/2008	SeqNo: 778931					
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: 08-9307

Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_DW

Sample ID	LCS-R43849	SampType: LCS	TestCode: PH_DW	Run ID: PH_081205A	Prep Date: 12/5/2008	Units: pH Units					
		Batch ID: R43849	TestNo: E150.1	FileID:	Analysis Date: 12/5/2008	SeqNo: 776866					
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		

Sample ID	LCS-R43849	SampType: LCS	TestCode: PH_DW	Run ID: PH_081205A	Prep Date: 12/5/2008	Units: pH Units					
		Batch ID: R43849	TestNo: E150.1	FileID:	Analysis Date: 12/5/2008	SeqNo: 776871					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.03	1.00	8	0	100	99.3	100.7	0	0		

Sample ID	LCS-R43849	SampType: LCS	TestCode: PH_DW	Run ID: PH_081205A	Prep Date: 12/5/2008	Units: pH Units					
		Batch ID: R43849	TestNo: E150.1	FileID:	Analysis Date: 12/5/2008	SeqNo: 776876					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.97	1.00	8	0	99.6	99.3	100.7	0	0		

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Work Order: 08-9307
Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT**BatchID: R43887**

Sample ID: MB 12/05/08	SampType: MBLK	TestCode: anions_w	Run ID: IC-2000_081205A	Prep Date: 12/5/08	Units: mg/L						
	Batch ID: R43887	TestNo: E300.0	FileID: 5	Analysis Date: 12/5/08	SeqNo: 777450						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	0	0.50									
Nitrite	0	0.013									
Bromide	0	0.050									
Nitrate	0	0.044									
Sulfate	0	0.50									

Sample ID: LCS 12/05/08	SampType: LCS	TestCode: anions_w	Run ID: IC-2000_081205A	Prep Date: 12/5/08	Units: mg/L						
	Batch ID: R43887	TestNo: E300.0	FileID: 10	Analysis Date: 12/5/08	SeqNo: 777455						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	18.71	2.5	20	0	93.6	90	110	0	0		
Nitrite	20.15	0.065	20	0	101	90	110	0	0		
Bromide	19.87	0.25	20	0	99.3	90	110	0	0		
Nitrate	19.58	0.22	20	0	97.9	90	110	0	0		
Sulfate	29.63	2.5	30	0	98.8	90	110	0	0		

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Work Order: 08-9307

Client Project ID: 200191771

ANALYTICAL QC SUMMARY REPORT

BatchID: GAS121008

Sample ID: GB121008	SampType: MBLK	TestCode: MEEP_W	Run ID: FID4_081210A	Prep Date: 12/10/08	Units: mg/L						
	Batch ID: GAS121008	TestNo: RSKSOP175	FileID: GAS121004	Analysis Date: 12/10/08	SeqNo: 779270						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane U 0.0080

Sample ID: LCS121008	SampType: LCS	TestCode: MEEP_W	Run ID: FID4_081210A	Prep Date: 12/10/08	Units: mg/L						
	Batch ID: GAS121008	TestNo: RSKSOP175	FileID: GAS121005	Analysis Date: 12/10/08	SeqNo: 779271						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5727 0.0080 0.5094 0 112 70 130 0 0

Sample ID: LCSD121008	SampType: LCSD	TestCode: MEEP_W	Run ID: FID4_081210A	Prep Date: 12/10/08	Units: mg/L						
	Batch ID: GAS121008	TestNo: RSKSOP175	FileID: GAS121006	Analysis Date: 12/10/08	SeqNo: 779272						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5925 0.0080 0.5094 0 116 70 130 0.5727 3.40 30

Sample ID: 08-9379-01CMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_081210A	Prep Date: 12/10/08	Units: mg/L						
	Batch ID: GAS121008	TestNo: RSKSOP175	FileID: GAS121023	Analysis Date: 12/10/08	SeqNo: 779256						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.4959 0.0080 0.5094 0 97.3 70 130 0 0

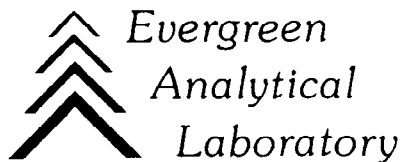
Sample ID: 08-9379-01CMSD	SampType: MSD	TestCode: MEEP_W	Run ID: FID4_081210A	Prep Date: 12/10/08	Units: mg/L						
	Batch ID: GAS121008	TestNo: RSKSOP175	FileID: GAS121024	Analysis Date: 12/10/08	SeqNo: 779257						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5 0.0080 0.5094 0 98.1 70 130 0.4959 0.817 30

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December 19, 2008

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

Lab Work Order: 08-9307
Client Project ID: 200191771

Dear Margaret Ash:

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,


Kaprie Hollman/Carl Smits
Quality Assurance