

May 29, 2007

John Axelson
Colorado Oil & Gas Conservation Commission
9203 E 155th Dr
Brighton, CO 80602

Lab Work Order: 07-3012
Client Project ID: Lewis Creek-ERF

Dear John Axelson:

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 one month from the date of this letter. 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".

Carl Smits / Kaprie Hollman
Technical Director of Chemical Analysis

WORK ORDER Summary

Evergreen Analytical, Inc.

07-3012

Rpt To: John Axelson

Fax To: John Axelson

FX: (303) 637-7179

Colorado Oil & Gas Conservation
Commission

Email To: randall.ferguson@state.co.us

Client Project ID: Lewis Creek-ERF

5/16/2007 10:25:39 AM

9203 E 15th Dr
Brighton, CO 80602
(303) 637-7178

QC Level: LEVEL 1

Comments EDD in COGCC format and PDF.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
07-3012-01A	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	5/18/07	5/29/07
07-3012-01B	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	6010_D *	6010: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	11/11/07
07-3012-01B	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	6020_D *	6020: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	11/11/07
07-3012-01C	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	ALK_WGRP *	Alkalinity	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	5/29/07
07-3012-01C	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	6/12/07
07-3012-01C	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	6/12/07
07-3012-01C	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	PH_DW	El50.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	5/16/07
07-3012-01C	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	5/22/07
07-3012-01D	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	ANIONS_W *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	5/17/07
07-3012-01E	Lewis Cr. NP-Well	Groundwater	5/15/07 0800	5/15/07	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	5/30/07	5/29/07

Definitions: * - Test Code has a Select List

Evergreen Analytical Laboratory Inc.

CLIENT INFORMATION

CLIENT ICG/C/John Axelsson
 ADDRESS 9203 E 155th Dr
 CITY Brignton STATE CO ZIP 80602
 PHONE 303 637 7178 FAX 303 637 7179 E-mail john.axelsson@evergreenanalytical.com
 REPORT BY ☒ MAIL ☒ FAX ☐ PDF ☐ EDO

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: 5/15/07 (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 CHROMATOGRAMS ☒ YES

REPORT TO (M/Ms) John Axelsson

INVOICE TO John Axelsson

PROJECT I.D. Lewis Creek ERF

P.O. # EAL QUOTE #

Sampler: JA

NOTE: Identify Known Hazards Below

SAMPLE DATE
 IDENTIFICATION SAMPLED TIME

REPORT CHROMATOGRAMS <input checked="" type="checkbox"/> YES			MATRIX		ANALYSES (check analysis)															For Laboratory Use Only																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
REPORT TO <u>CDP/MS</u>	<u>John Anderson</u>				1) Drinking Water or 2) Discharge Water or 3) <u>Ground Water</u> (circle one)	Soil / Solid / Air / Gas	Oil / Sludge / Wipe	TCLP VOA/BNA/Pest/Herb/Metals (circle)	Volatile Organics 8260/624 (circle)	Semi-volatile Organics BNA, PAH, PNA 8270/625 (circle)	Chlorinated Pesticides 8081/608 (circle)	Organophosphorous Pesticides 8270	PCBs/8082/608/screen (circle)	Herbicides 8151	<u>BTEX</u> 8021/602/8260/MTBE (circle)	TVPH 8015mod. / 8260 (circle)	TEPH 8015mod. (Diesel)	Total Metals-DW / NPDES / SW846 (circle & list metals below)	<u>Dissolved Metals</u> , DW / SW846 (circle & list metals below)	Oil & Grease 413.1/1664 / 9071 (circle)	TRPH 418.1	<u>AIK</u> , BOD (circle)	COD, TOC (circle)	<u>PH, TDS, TSS</u> (circle)	<u>NH₄</u> , TP (circle)	<u>Methane</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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

Instructions: Ca, Ni, Mg, K, Fe, Mn, Cl, SO₄, Br, F, Nitrate, Nitrite, CO₂, HCO₃, Se

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>John Axelsson</i>	5/15/07 15:25	<i>WAL</i>	5/15/07 3:25				

Evergreen Analytical, Inc.

Date: 30-May-07

Lab Order: 07-3012

Client Project ID Lewis Creek-ERF

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 3.3 °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

Analyses performed on samples in this work order 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. CMS

CLIENT SERVICES

There are no anomalies to report. AMU

GENERAL CHEMISTRY

The pH sample was analyzed 35 minutes out of holding time due to a scheduling problem. There are no other anomalies to report. CMS

METALS ANALYSIS

There are no anomalies to report. MB

GAS CHROMATOGRAPHY

Method MEEP_W: There are no anomalies to report. MS

Method 8021_W: There are no anomalies to report. HJ

554

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

Client Sample ID: Lewis Cr. NP-Well
Client Project ID: Lewis Creek-ERF
Date Collected: 5/15/07
Date Received: 5/15/07

Lab Work Order 07-3012
Lab Sample ID: 07-3012-01A
Sample Matrix: Groundwater

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030B

Date Prepared: 5/17/07
Date Analyzed: 5/17/07

Lab File ID: TVB20517\009R
Method Blank: MB2051707

Dilution Factor: 1

Analytes	CAS Number	Result	LQL	Units
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	81	QC Limits: 60-140	%REC



Analyst



Approved

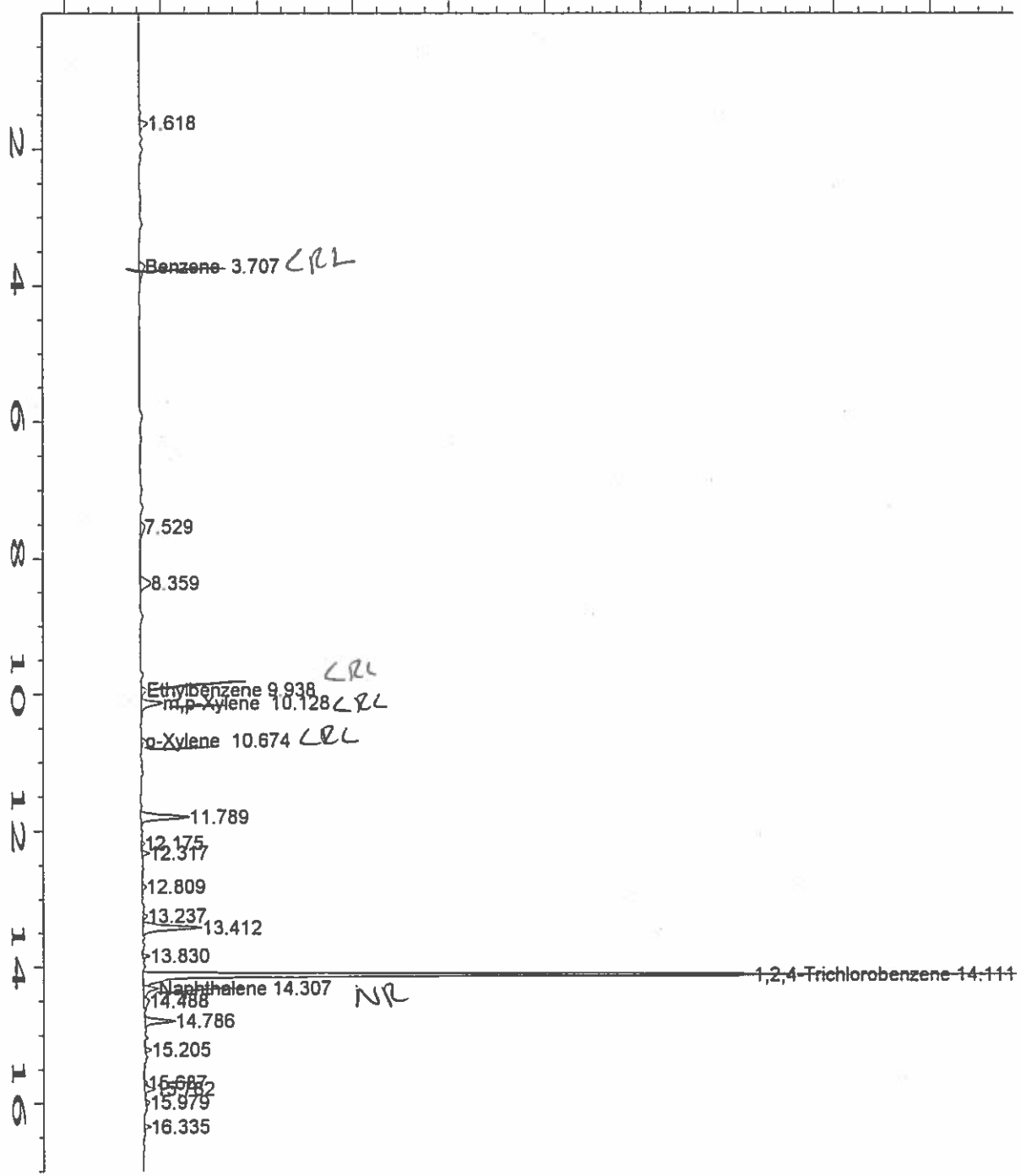
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

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: 5/18/07

2.2e4
2.0e4
1.8e4
1.6e4
1.4e4
1.2e4
1.0e4
8000
6000
4000



HA
5/16/07

Data File Name	: C:\HPCHEM\2\DATA\TVB20517\009R0101.D	Page Number	: 1
Operator	: AEngelbrecht/haley jones	Vial Number	: 9
Instrument	: TVHBTEX2	Injection Number	: 1
Sample Name	: 07-3012-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	TW20202.MTH
Acquired on	: 17 May 07 12:48 PM	Analysis Method	: BW20509.MTH
Report Created on:	17 May 07 01:05 PM	Sample Amount	: 0
Last Recalib on	: 10 MAY 07 12:25 PM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP		
	DF=1		

000

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

Client Sample ID: Lewis Cr. NP-Well
Client Project ID: Lewis Creek-ERF
Date Collected: 5/15/07
Date Received: 5/15/07

Lab Work Order: 07-3012
Lab Sample ID: 07-3012-01
Sample Matrix: Groundwater

DISSOLVED METALS

Method: SW6010B

Prep Method: E200.7/SW3010A

Date Prepared: 5/16/07
Date Analyzed: 5/17/07

Lab File ID: 051707PM
Method Blank: MB-12561

Dilution Factor: 1
Lab Fraction ID: 07-3012-01B

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	110	0.39	mg/L
Iron	7439-89-6	U	0.070	mg/L
Magnesium	7439-95-4	40	0.15	mg/L
Manganese	7439-96-5	0.87	0.0050	mg/L
Potassium	7440-09-7	12	0.34	mg/L
Sodium	7440-23-5	46	0.40	mg/L

DISSOLVED METALS

Method: SW6020

Prep Method: SW6020

Date Prepared: 5/21/07
Date Analyzed: 5/23/07

Lab File ID: 070523A.B\039SMPL.D
Method Blank: MB-12598

Dilution Factor: 1
Lab Fraction ID: 07-3012-01B

Analytes	CAS Number	Result	LQL	Units
Selenium	7782-49-2	U	0.0050	mg/L

mb

Analyst

U/KH

Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
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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: 5/24/07

007

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

Client Sample ID: Lewis Cr. NP-Well
Client Project ID: Lewis Creek-ERF
Date Collected: 5/15/07 0800
Date Received: 5/15/07

Lab Work Order: 07-3012
Lab Sample ID: 07-3012-01
Sample Matrix: Groundwater

ALKALINITY

Method: SM2320B

Prep Method:

Date Prepared: 5/17/07
Date Analyzed: 5/17/07

Lab File ID: 13
Method Blank: MBLK

Dilution Factor: 1
Lab Fraction ID: 07-3012-01C

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		334	5.0	mg/L CaCO ₃
Bicarbonate		334	5.0	mg/L CaCO ₃
Carbonate		U	5.0	mg/L CaCO ₃

SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B

Prep Method:

Date Prepared: 5/21/07
Date Analyzed: 5/21/07

Lab File ID: 65

Dilution Factor: 1
Lab Fraction ID: 07-3012-01C

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		1040	1.00	µmhos/cm

FLUORIDE

Method: SM 4500-F C

Prep Method:

Date Prepared: 5/16/07
Date Analyzed: 5/16/07

Lab File ID: 19
Method Blank: MBLK

Dilution Factor: 1
Lab Fraction ID: 07-3012-01C

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	0.53	0.20	mg/L

E150.1 PH

Method: E150.1

Prep Method:

Date Prepared: 5/16/07
Date Analyzed: 5/16/07 0835

Dilution Factor: 1
Lab Fraction ID: 07-3012-01C

Analytes	CAS Number	Result	LQL	Units
pH		7.04 H	1.00	pH Units


Analyst


Approved

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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: 5/23/2007

05
05
03

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

Client Sample ID: Lewis Cr. NP-Well
Client Project ID: Lewis Creek-ERF
Date Collected: 5/15/07 0800
Date Received: 5/15/07

Lab Work Order 07-3012
Lab Sample ID: 07-3012-01
Sample Matrix: Groundwater

TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Prep Method:

Date Prepared: 5/21/07
Date Analyzed: 5/21/07 0000

Lab File ID: 7
Method Blank: MBLK

Dilution Factor: 1
Lab Fraction ID: 07-3012-01C

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		725	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
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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: 5/23/2007

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

Client Sample ID: Lewis Cr. NP-Well
Client Project ID: Lewis Creek-ERF
Date Collected: 5/15/07 0800
Date Received: 5/15/07

Lab Work Order 07-3012
Lab Sample ID: 07-3012-01
Sample Matrix: Groundwater

ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 5/16/07
Date Analyzed: 5/16/07 1128

Method Blank: METHOD BLANK

Dilution Factor: 1
Lab Fraction ID: 07-3012-01D


Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	1.04	0.25	mg/L
Nitrate-N		0.120	0.056	mg/L
Sulfate	7778-80-2	19.6	0.25	mg/L

Date Prepared: 5/16/07
Date Analyzed: 5/16/07 1200

Method Blank: METHOD BLANK

Dilution Factor: 5
Lab Fraction ID: 07-3012-01D

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	147	1.3	mg/L
Nitrite-N		U	0.38	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: 5/17/07

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

Client Project ID Lewis Creek-ERF

Lab Order: 07-3012
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
07-3012-01E	Lewis Cr. NP-Well	Groundwater	5/15/07	5/15/07	5/16/07	5/16/07	0.0092	0.00080	1

Comments:

Analyst PC

Approved [Signature]

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: 5/17/07

QUALITY ASSURANCE REPORTS

METHOD BLANKS (MB, MEB)

LABORATORY CONTROL SPIKES (LCS)

MATRIX SPIKES (MS/MSD)*

DUPLICATES (DUP)*

***Only included if requested or if performed on this client's samples.**

Work Order: 07-3012

Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: R31786

Sample ID: MB2051707	SamplType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX2_070517A	Prep Date: 5/17/07	Units: µg/L						
	Batch ID: R31786	TestNo: SW8021B	FileID: TVB20517003R	Analysis Date: 5/17/07	SeqNo: 563384						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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)	79.5	0	100	0	79.5	60	140	0	0		

Sample ID: LCS2051707	SamplType: LCS	TestCode: 8021_W	Run ID: TVHBTEX2_070517A	Prep Date: 5/17/07	Units: µg/L						
	Batch ID: R31786	TestNo: SW8021B	FileID: TVB20517004R	Analysis Date: 5/17/07	SeqNo: 563385						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	25.95	1.0	25.5	0	102	70	130	0	0		
Toluene	167	2.0	183.6	0	90.9	70	130	0	0		
Ethylbenzene	34.8	2.0	36.8	0	94.6	70	130	0	0		
m,p-Xylene	137.6	2.0	136.3	0	101	70	130	0	0		
o-Xylene	56.52	2.0	57.2	0	98.8	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	99.94	0	100	0	99.9	60	140	0	0		

Sample ID: 07-3040-01AAMS	SamplType: MS	TestCode: 8021_W	Run ID: TVHBTEX2_070517A	Prep Date: 5/17/07	Units: µg/L						
	Batch ID: R31786	TestNo: SW8021B	FileID: TVB205171006R	Analysis Date: 5/17/07	SeqNo: 563387						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	26.94	1.0	25.5	0	106	70	130	0	0		
Toluene	170.5	2.0	183.6	0	92.9	70	130	0	0		
Ethylbenzene	35.59	2.0	36.8	0	96.7	62	130	0	0		
m,p-Xylene	139.9	2.0	136.3	0	103	70	134	0	0		
o-Xylene	56.11	2.0	57.2	0	98.1	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	99.55	0	100	0	99.5	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: 07-3012
Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: R31786

Sample ID: 07-3040-01A	MSD	SamplType: MSD	TestCode: 8021_W	Run ID: TVHBTEx2_070517A	Prep Date: 5/17/07	Units: µg/L					
Batch ID: R31786		TestNo: SW8021B	FieldID: TVB205171007R	Analysis Date: 5/17/07	SeqNo: 563388						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	27.05	1.0	25.5	0	106	70	130	26.94	0.407	30	
Toluene	168.7	2.0	183.6	0	91.9	70	130	170.5	1.07	30	
Ethylbenzene	36.01	2.0	36.8	0	97.8	62	130	35.59	1.17	30	
m,p-Xylene	141.8	2.0	136.3	0	104	70	134	139.9	1.39	30	
o-Xylene	56.94	2.0	57.2	0	99.6	63	130	56.11	1.47	30	
Surr: 1,2,4-Trichlorobenzene (S)	98.73	0	100	0	98.7	60	140	0	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

Evergreen Analytical, Inc.

Date: 24-May-07

Work Order: 07-3012

Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: 12561

Sample ID: MB-12561	SampleType: MBLK	TestCode: 200.7_D	Run ID: ICP_070517B	Prep Date: 5/16/07	Units: mg/L						
Batch ID: 12561	TestNo: E200.7, Rev.	FieldID: 051707PM	Analysis Date: 5/17/07	SeqNo: 563120							
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	U	0.150									
Manganese	0	0.00500									
Potassium	0	0.340									
Sodium	0	0.400									

Sample ID: LCS-12561	SampleType: LCS	TestCode: 200.7_D	Run ID: ICP_070517B	Prep Date: 5/16/07	Units: mg/L						
Batch ID: 12561	TestNo: E200.7, Rev.	FieldID: 051707PM	Analysis Date: 5/17/07	SeqNo: 563121							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.695	0.387	10	0	97	74	113	0	0		
Iron	4.828	0.0700	5	0	96.6	76.6	115	0	0		
Magnesium	9.962	0.150	10	0.01815	99.6	76.7	114	0	0		
Manganese	1.884	0.00500	2	0	94.2	72.4	109	0	0		
Potassium	9.977	0.340	10	0	99.8	70.9	115	0	0		
Sodium	10.41	0.400	10	0	104	85.4	112	0	0		

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Work Order: 07-3012
Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: 12598

Sample ID: MB-12598	Sample Type: MBLK	Test Code: 6020_WT	Run ID: ICPMS_070523A	Prep Date: 5/21/07	Units: mg/L
Batch ID: 12598	Test No: SW6020	File ID: 070523A.B1023SMPL.D	Analysis Date: 5/23/07	SeqNo: 565010	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	0	0.0050			
Sample ID: LCS-12598	Sample Type: LCS	Test Code: 6020_WT	Run ID: ICPMS_070523A	Prep Date: 5/21/07	Units: mg/L
Batch ID: 12598	Test No: SW6020	File ID: 070523A.B1024SMPL.D	Analysis Date: 5/23/07	SeqNo: 565011	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	0.0563	0.0050	0.06	0	93.8 81 122 0 0

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Evergreen Analytical, Inc.

Date: 23-May-07

Work Order: 07-3012

Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: ALK_WGRP

Sample ID	MBLK	SampleType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_070517A	Prep Date: 5/17/2007	Units: mg/L CaCO3
	Batch ID: R31748	TestNo: SM2320B	FileID: 1		Analysis Date: 5/17/2007	SeqNo: 562824
Analyte	Result	LQl	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Alkalinity	U	5.0				
Bicarbonate	U	5.0				
Carbonate	U	5.0				

Sample ID	LCS	SampleType: LCS	TestCode: ALK_WGRP	Run ID: ALK_070517A	Prep Date: 5/17/2007	Units: mg/L CaCO3
	Batch ID: R31748	TestNo: SM2320B	FileID: 2		Analysis Date: 5/17/2007	SeqNo: 562825
Analyte	Result	LQl	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Total Alkalinity	97.21	5.0	100	0	97.2	90 110 0 0

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- X - See case narrative

Work Order: 07-3012

Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: COND_W

Sample ID	LCS	SamptType: LCS	TestCode: COND_W	Run ID: COND_070521A	Prep Date: 5/21/2007	Units: µmhos/cm
	Batch ID: R31818		TestNo: SM2510 B	FieldID: 63	Analysis Date: 5/21/2007	SeqNo: 563776
Analyte	Result	LOL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Specific Conductance	95.1	1.00	99.3	0	95.8	90 110 0 0

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Work Order: 07-3012
Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: F_W

Sample ID	MBLK	Sample Type: MBLK	TestCode: F_W	Run ID: F_070516A	Prep Date: 5/16/2007	Units: mg/L
	Batch ID: R31725		TestNo: SM 4500-F C	FileID: 1	Analysis Date: 5/16/2007	SeqNo: 562492
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride U 0.20

Sample ID	LCS	Sample Type: LCS	TestCode: F_W	Run ID: F_070516A	Prep Date: 5/16/2007	Units: mg/L
	Batch ID: R31725		TestNo: SM 4500-F C	FileID: 2	Analysis Date: 5/16/2007	SeqNo: 562493
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride		9.703	0.20	10	0	97 95 105 0 0

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Work Order: 07-3012
Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_DW

Sample ID	LCS-R31705	SampType: LCS	TestCode: PH_DW	Run ID: PH_070516A	Prep Date: 5/16/2007	Units: pH Units					
	Batch ID: R31705	TestNo: E150.1	FieldID:		Analysis Date: 5/16/2007	SeqNo: 562191					
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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- II - Prep or analytical holding time exceeded
- X - Sec case narrative

Work Order: 07-3012
Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: TDS_W

Sample ID	MBLK	SampleType: MBLK	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_070522A	Prep Date: 5/21/2007	Units: mg/L					
	Batch ID: R31849	TestNo: SM 2540C	FileID: 1		Analysis Date: 5/21/2007	SeqNo: 564371					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids U 10.0

Sample ID	LCS	SamptType: LCS	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_070522A	Prep Date: 5/21/2007	Units: mg/L					
	Batch ID: R31849	TestNo: SM 2540C	FileID: 2	Analysis Date: 5/21/2007	SeqNo: 564372						
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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Evergreen Analytical, Inc.

Date: 17-May-07

Work Order: 07-3012

Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

TestCode: ANIONS_W

Sample ID: METHOD BLANK	SampleType: MBLK	TestCode: ANIONS_W	Run ID: IC-DX300_070516A	Prep Date: 5/16/07	Units: mg/L
Batch ID: R31742	TestNo: E300.0	FileID:		Analysis Date: 5/16/07	SeqNo: 562711
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	U	0.25			
Nitrite-N	U	0.076			
Bromide	U	0.25			
Nitrate-N	U	0.056			
Sulfate	U	0.25			

Sample ID: LCS	SampleType: LCS	TestCode: ANIONS_W	Run ID: IC-DX300_070516A	Prep Date: 5/16/07	Units: mg/L
Batch ID: R31742	TestNo: E300.0	FileID:		Analysis Date: 5/16/07	SeqNo: 562710
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride	19.39	0.25	20	0	97 90 110 0 0
Nitrite-N	6.124	0.076	6.09	0	101 90 110 0 0
Bromide	19.48	0.25	20	0	97.4 90 110 0 0
Nitrate-N	4.218	0.056	4.518	0	93.4 90 110 0 0
Sulfate	30.28	0.25	30	0	101 90 110 0 0

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Evergreen Analytical, Inc.

Date: 17-May-07

Work Order: 07-3012

Client Project ID: Lewis Creek-ERF

ANALYTICAL QC SUMMARY REPORT

BatchID: GAS051607

Sample ID: GB051607	Sample Type: MBLK	TestCode: MEEP_W	Run ID: FID4_070516A	Prep Date: 5/16/07	Units: mg/L
Batch ID: GAS051607	TestNo: RSKSOP175	FileID: GAS0516004	Analysis Date: 5/16/07	SeqNo: 562872	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Methane U 0.00080

Sample ID: LCS051607	Sample Type: LCS	TestCode: MEEP_W	Run ID: FID4_070516A	Prep Date: 5/16/07	Units: mg/L
Batch ID: GAS051607	TestNo: RSKSOP175	FileID: GAS0516005	Analysis Date: 5/16/07	SeqNo: 562873	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Methane 0.5605 0.0080 0.5094 0 110 70 130 0 0

Sample ID: LCSD051607	Sample Type: LCSD	TestCode: MEEP_W	Run ID: FID4_070516A	Prep Date: 5/16/07	Units: mg/L
Batch ID: GAS051607	TestNo: RSKSOP175	FileID: GAS0516006	Analysis Date: 5/16/07	SeqNo: 562874	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Methane 0.5536 0.0080 0.5094 0 109 70 130 0.5605 1.24 30

Sample ID: 07-3012-01EMMS	Sample Type: MS	TestCode: MEEP_W	Run ID: FID4_070516A	Prep Date: 5/16/07	Units: mg/L
Client ID: Lewis Cr. NP-Well	Batch ID: GAS051607	TestNo: RSKSOP175	FileID: GAS0516025	Analysis Date: 5/16/07	SeqNo: 562870
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Methane 0.449 0.0080 0.5094 0.009228 86.3 70 130 0 0

Sample ID: 07-3012-01EMMSD	Sample Type: MSD	TestCode: MEEP_W	Run ID: FID4_070516A	Prep Date: 5/16/07	Units: mg/L
Client ID: Lewis Cr. NP-Well	Batch ID: GAS051607	TestNo: RSKSOP175	FileID: GAS0516026	Analysis Date: 5/16/07	SeqNo: 562871
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Methane 0.4542 0.0080 0.5094 0.009228 87.4 70 130 0.449 1.16 30

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