



REM# 4202
PIT# 116881
Doc# 2303187
Date: 09/07/2007

September 07, 2007

Jack Crumley
Jack Crumley
PO Box 494
Akron, CO 80720

Lab Work Order: 07-6020
Client Project ID: State #1 36-15-58W

Dear Jack Crumley:

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.

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 black ink that reads 'Carl Smits'.

Carl Smits / Kaprie Hollman
Technical Director of Chemical Analysis

Evergreen Analytical Laboratory



4036 Youngfield Street
Wheat Ridge, CO 80033-3862

(303) 425-6021
FAX (303) 425-6854

RECEIVED

APR 14 2008

INVOICE

07090272C

Invoice Date: September 11, 2007

Invoice To: Jack Crumley
PO Box 494
Akron, CO 80720

Attn:
Phone: (970) 345-6554

Client Project ID: State #1 36-15-58W
Date Samples Received: 8/23/07

Agmt No:
PO Number:

MAIL PAYMENTS TO:
Evergreen Analytical Laboratory
Dept. 1819
Denver, CO 80291-1819

Work Order: 07-6020
QuoteID:

Item	Matrix	Qty	Unit Price	Unit Surcharge	Total Unit Price	Extended Price
418.1: Total Recoverable Petroleum Hydrocarbons	Soil	1	\$60.00	0%	\$60.00	\$60.00
Sodium Absorption Ratio for Soils	Soil	1	\$116.00	0%	\$116.00	\$116.00
Specific Conductance @ 25°C	Soil	1	\$20.00	0%	\$20.00	\$20.00

Sub total: \$196.00
Surcharge: 0.00%
Discount: 0.00%
Misc: \$0.00

Invoice Total: \$196.00
Prepayment: \$196.00
Balance Due: \$0.00

Comments:

FEIN	84-0906043	WE ARE AN EQUAL OPPORTUNITY EMPLOYER
TERMS	NET 30 Days. A 1.5% service charge will be added to all past due accounts. THANK YOU FOR YOUR BUSINESS	

Evergreen Analytical, Inc.

RECEIVED

APR 11 2008

COGCC

Date: 11-Sep-07

Client Project ID: State #1 36-^{IN}8-58W

Lab Order: 07-6020

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 20.1 °C.

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

Several samples were received out of holding time. 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

The sample was received outside of the recommended holding time for TRPH and Specific Conductance. EKH

GENERAL CHEMISTRY

The conductance sample was received and analyzed out of holding time (H). There are no other anomalies to report. MM

METALS ANALYSIS

SAR : B = Sodium was detected in the method blank for the 6010 metals at 0.7 mg/L. This amount was not subtracted from the sample result. There are no other anomalies to report. WKH

OIL AND GREASE/TRPH ANALYSIS

The sample was received and analyzed outside of holding time (H). There are no other anomalies to report. JK/JT

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.**

Page ___ of ___

Evergreen Analytical Laboratory Inc.

Report Results by: _____ (Date)*

4036 Youngfield St.

Wheat Ridge, Colorado 80033

(303) 425-6021

FAX (303) 425-6854

(877) 737-4521
e-mail info@evergreenanalytical.com

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

ANALYSES (check analysis)

07-10070

005#

DATE _____

Off: 000 000 000

Total on 76 bills

Scale Percent V/VINA

Samples Pres V / N / NA

Headspace Y/N/NA

By

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

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
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[illegible]

4004

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

Client Project ID State #1 36-15-58W
Date Received: 8/23/07

Lab Order: 07-6020
Date Prepared: 8/27/07
Units: mg/Kg

**Total Recoverable Petroleum Hydrocarbons
TRPH**

Method: E418.1

Prep Method:

Lab ID	Client ID	Matrix	Date Collected	Date Analyzed	Results	LQL	DF
07-6020-01A	State #1 36-15-58W	Soil	7/16/07	8/28/07	250 H	12	2.43



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: DF - Dilution Factor
PF - Prep Factor
LQL - Lower Quantitation Limit

Print Date: 8/28/2007

Evergreen Analytical, Inc.

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

Client Sample ID: State #1 36-15-58W
Client Project ID: State #1 36-15-58W
Date Collected: 7/16/07
Date Received: 8/23/07

Lab Work Order: 07-6020
Lab Sample ID: 07-6020-01
Sample Matrix: Soil

DISSOLVED METALS**Method: SW6010B****Prep Method: E200.7/SW3010A**

Date Prepared: 8/29/07
Date Analyzed: 8/31/07

Lab File ID: 083107PM
Method Blank: MB-13474

Dilution Factor: 1
Lab Fraction ID: 07-6020-01A

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	9.9	1.9	mg/L
Magnesium	7439-95-4	1.1	0.75	mg/L
Sodium	7440-23-5	4100 B	2.0	mg/L

SODIUM ADSORPTION RATIO, SOIL**Method: USDA****Prep Method:**

Date Prepared: 8/29/07
Date Analyzed: 8/31/07

Dilution Factor: 1
Lab Fraction ID: 07-6020-01A

Analytes	CAS Number	Result	LQL	Units
Sodium-Adsorption-Ratio		330	0.10	ratio



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: 9/4/07

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

Client Sample ID: State #1 36-15-58W
Client Project ID: State #1 36-15-58W
Date Collected: 7/16/07
Date Received: 8/23/07

Lab Work Order: 07-6020
Lab Sample ID: 07-6020-01
Sample Matrix: Soil

SPECIFIC CONDUCTANCE @ 25°C

Method: Dept of Ag.

Prep Method:

Comments: Method: US Dept. of Ag, Handbook #60, p89

Date Prepared: 8/29/07

Lab File ID: 75

Dilution Factor: 1

Date Analyzed: 8/31/07

Lab Fraction ID: 07-6020-01A

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		22100 H	1.00	µmhos/cm

JJ/cms
Analyst

Carl Hunt
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: 9/11/07

WORK ORDER SUMMARY

Evergreen Analytical, Inc.

07-6020

Rpt To: Jack Crumley
 Jack Crumley
 PO Box 494
 Akron, CO 80720
 (970) 345-6554

Client Project ID: State #1 36-15-58W
 QC Level: Level I

8/24/2007 3:41:12 PM

Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold MS	Date Due	Hold Time
07-6020-01A	State #1 36-15-58W	Soil	7/16/07 1430	8/23/07	418.1_S	418.1: Total Recoverable Petroleum Hydrocarbons	<input type="checkbox"/>	9/07/07	8/13/07
07-6020-01A	State #1 36-15-58W	Soil	7/16/07 1430	8/23/07	6010_D*	6010: Dissolved Metals	<input type="checkbox"/>	9/07/07	1/12/08
07-6020-01A	State #1 36-15-58W	Soil	7/16/07 1430	8/23/07	COND_S	Specific Conductance @ 25°C	<input type="checkbox"/>	9/07/07	8/13/07
07-6020-01A	State #1 36-15-58W	Soil	7/16/07 1430	8/23/07	PH_S	9045C: pH	<input checked="" type="checkbox"/>	9/07/07	7/17/07
07-6020-01A	State #1 36-15-58W	Soil	7/16/07 1430	8/23/07	SAR_S	Sodium Adsorption Ratio, Soil Leachate	<input type="checkbox"/>	9/07/07	1/12/08

Work Order: 07-6020 /M
 Client Project ID: State #1 36-45-58W

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_S

Sample ID: LCS-R33867	SampType: LCS	TestCode: PH_S	Run ID: PH_070823B	Prep Date: 8/23/07	Units: pH Units
Batch ID: R33867	Batch ID: R33867	TestNo: SW9045C	FileID:	Analysis Date: 8/23/07	SeqNo: 601626
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC
pH	8	1.00	8	0	100
				HighLimit	LowLimit
				100.7	99.3
				RPD Ref Val	%RPD
				0	0
				RPDLimit	Qual

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: 31-Aug-07

ANALYTICAL QC SUMMARY REPORT

Work Order: 07-6020 /N
Client Project ID: State #1 36-45-58W

TestCode: COND_S

Sample ID: LCS	SampType: LCS	TestCode: COND_S	Run ID: COND_070831B	Prep Date: 8/31/07	Units: µmhos/cm
	Batch ID: R34049	TestNo: Dept of Ag.	FileID: 74	Analysis Date: 8/31/07	SeqNo: 606229
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC
Specific Conductance	10020	1.00	10010	0	100
				LowLimit	HighLimit
				90	110
				%RPD	RPDLimit
				0	0
				Qual	

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

ANALYTICAL QC SUMMARY REPORT

BatchID: 13474

Sample ID: MB-13474		TestCode: 200.7_TR		Run ID: ICP-OPTIMA 5300 DV_070831A		Prep Date: 8/29/07		Units: mg/L	
SampType: MBLK		TestNo: E200.7, Rev.		FileID: 083107PM		Analysis Date: 8/31/07		SeqNo: 606540	
Batch ID: 13474		LQL		SPK value		SPK Ref Val		%REC	
Analyte		Result		LQL		SPK Ref Val		HighLimit	
Calcium		0		0.387		0		RPD Ref Val	
Magnesium		0		0.150		0		%RPD	
Sodium		0.7086		0.400		0.7086		RPDLimit	
Qual									
Sample ID: LCS-13474		TestCode: 200.7_TR		Run ID: ICP-OPTIMA 5300 DV_070831A		Prep Date: 8/29/07		Units: mg/L	
SampType: LCS		TestNo: E200.7, Rev.		FileID: 083107PM		Analysis Date: 8/31/07		SeqNo: 606541	
Batch ID: 13474		LQL		SPK value		SPK Ref Val		%REC	
Analyte		Result		LQL		SPK Ref Val		HighLimit	
Calcium		10.08		0.387		0		RPD Ref Val	
Magnesium		10.11		0.150		0		%RPD	
Sodium		9.97		0.400		0.7086		RPDLimit	
Qual									

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: 28-Aug-07

Work Order: 07-6020 /N

Client Project ID: State #1 36-15-58W

ANALYTICAL QC SUMMARY REPORT

TestCode: 418.1_S

Sample ID: LCS	SampType: LCS	TestCode: 418.1_S	Run ID: FTIR_070828A	Prep Date: 8/27/2007	Units: mg/Kg						
	Batch ID: R33953	TestNo: E418.1	FileID: 88	Analysis Date: 8/28/2007	SeqNo: 603647						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TRPH	66.56	5.0	56.7	0	117	70	130	0	0		

Sample ID: 07-6020-01ADUP	SampType: DUP	TestCode: 418.1_S	Run ID: FTIR_070828A	Prep Date: 8/27/2007	Units: mg/Kg						
Client ID: State #1 36-15-58W	Batch ID: R33953	TestNo: E418.1	FileID: 90	Analysis Date: 8/28/2007	SeqNo: 603649						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TRPH	250.6	12	0	0	0	0	0	248.1	0.999	40	

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