



02143559

NOAV 200118230



GAL ID No.: 706-127-01

July 20, 2007

COGCC
PO Box 2651
Durango, CO 81302
Attention: Karen Spray

Project Name: Herrera PM
Project Number:
Date Received: 06/25/07

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, 18th & 19th editions, and Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020.

Samples were received by Green Analytical Laboratories, Inc. in good condition on 06/25/07.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,

FOR: John Green
Laboratory Director

Enclosure

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

COGCC
PO Box 2651
Durango, CO 81302
Attention: Karen Spray

PROJECT NAME:

PROJECT NUMBER:

SAMPLE I.D.: Herrera PM

GAL I.D.: 706-127-01

Date Received: 06/25/07

Date Reported: 07/20/07

QC Batches:


Sample Date: 06/22/07

Sample Matrix: Soil 1:1 Ext.

Laboratory Report

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS
		LIMIT	RESULT		
Alkalinity as CaCO ₃	2320B	10	98	1	mg/L
Bicarbonate as CaCO ₃	2320B	10	96	1	mg/L
Carbonate as CaCO ₃	2320B	10	<10	1	mg/L
Hydroxide as CaCO ₃	2320B	10	<10	1	mg/L
Calcium, dissolved	200.7	0.5	33.3	1	mg/L
Chloride	4500Cl	10	13	1	mg/L
Conductivity	2510B	1.0	271	1	uS/cm
Iron, dissolved	200.7	0.05	0.37	1	mg/L
Magnesium, dissolved	200.7	0.5	6.7	1	mg/L
pH	150.1	NA	8.48	NA	SU
Potassium, dissolved	200.7	0.5	11.7	1	mg/L
Sodium, dissolved	200.7	0.5	13.4	1	mg/L
Sulfate	4500SO ₄	10	18	1	mg/L
SAR	Calc.		0.55		


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

COGCC
PO Box 2651
Durango, CO 81302
Attention: Karen Spray

PROJECT NAME:

PROJECT NUMBER:

SAMPLE I.D.: Herrera PM

GAL I.D.: 706-127-01

Date Received: 06/25/07

Date Reported: 07/20/07

QC Batches:

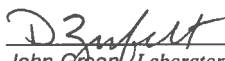
Sample Date: 06/22/07

Sample Matrix: Soil

TPH

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS
		LIMIT	RESULT		
BTEX	8021		Attached	1	mg/L
TPHGRO	8015		Attached	1	mg/L
TPHDRO	8015		Attached	1	mg/L
TPHORO	8015		Attached	1	mg/L

for 
John Green, Laboratory Manager

Green Analytical
75 Suttle Street
Durango CO, 81303

Project: COGCC
Project Number: [none]
Project Manager: Debbie Zufelt

Reported:
07/05/07 14:04

**Herrera PM
T700840-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	500	ug/kg	1	7062906	06/29/07	06/30/07	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		95.9 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015m

C13-C28 (DRO)	160	10	mg/kg	1	7062908	06/29/07	06/30/07	EPA 8015m	
C29-C40 (MORO)	7300	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		86.9 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8021B

Benzene	ND	5.0	ug/kg	1	7062907	06/29/07	06/30/07	EPA 8021B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	65-135		"	"	"	"	

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Green Analytical
75 Suttle Street
Durango CO, 81303

Project: COGCC
Project Number: [none]
Project Manager: Debbie Zufelt

Reported:
07/05/07 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Herrera PM	T700840-01	Soil	06/22/07 10:51	06/29/07 13:00

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Green Analytical
75 Suttle Street
Durango CO, 81303

Project: COGCC
Project Number: [none]
Project Manager: Debbie Zufelt

Reported:
07/05/07 14:04

Purgeable Petroleum Hydrocarbons by EPA 8015m - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7062906 - EPA 5030 GC

Blank (7062906-BLK1)

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: 4-Bromofluorobenzene	500		ug/kg	500		100	65-135		
C6-C12 (GRO)	ND	500	"						

LCS (7062906-BS1)

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: 4-Bromofluorobenzene	555		ug/kg	500		111	65-135		
C6-C12 (GRO)	13700	500	"	13800		99.7	75-125		

Matrix Spike (7062906-MS1)

Source: T700839-08

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: 4-Bromofluorobenzene	554		ug/kg	500		111	65-135		
C6-C12 (GRO)	9790	500	"	13800	ND	71.2	65-135		

Matrix Spike Dup (7062906-MSD1)

Source: T700839-08

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: 4-Bromofluorobenzene	555		ug/kg	500		111	65-135		
C6-C12 (GRO)	10000	500	"	13800	ND	72.7	65-135	2.09	20

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Green Analytical
75 Suttle Street
Durango CO, 81303

Project: COGCC
Project Number: [none]
Project Manager: Debbie Zufelt

Reported:
07/05/07 14:04

Extractable Petroleum Hydrocarbons by 8015m - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7062908 - EPA 3550B GC

Blank (7062908-BLK1)

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: <i>p</i> -Terphenyl	102		mg/kg	100		102	65-135			
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							

LCS (7062908-BS1)

Prepared: 06/29/07 Analyzed: 07/02/07

Surrogate: <i>p</i> -Terphenyl	123		mg/kg	100		123	65-135			
C13-C28 (DRO)	540	10	"	500		108	75-125			

Matrix Spike (7062908-MS1)

Source: T700840-01

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: <i>p</i> -Terphenyl	87.8		mg/kg	100		87.8	65-135			
C13-C28 (DRO)	780	10	"	500	160	123	75-125			

Matrix Spike Dup (7062908-MSD1)

Source: T700840-01

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: <i>p</i> -Terphenyl	99.9		mg/kg	100		99.9	65-135			
C13-C28 (DRO)	770	10	"	500	160	122	75-125	1.01	20	

SunStar Laboratories, Inc.



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Green Analytical
75 Suttle Street
Durango CO, 81303

Project: COGCC
Project Number: [none]
Project Manager: Debbie Zufelt

Reported:
07/05/07 14:04

Volatile Organic Compounds by EPA Method 8021B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7062907 - EPA 5030 GC

Blank (7062907-BLK1)

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: 4-Bromofluorobenzene	474		ug/kg	500		94.8	65-135			
Methyl tert-butyl ether	ND	20	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							

LCS (7062907-BS1)

Prepared: 06/29/07 Analyzed: 06/30/07

Surrogate: 4-Bromofluorobenzene	541		ug/kg	500		108	65-135			
Benzene	231	5.0	"	250		92.5	70-130			
Toluene	210	5.0	"	250		83.9	70-130			
Ethylbenzene	232	5.0	"	250		92.8	70-130			
m,p-Xylene	446	10	"	500		89.2	70-130			
o-Xylene	233	5.0	"	250		93.0	70-130			

Matrix Spike (7062907-MS1)

Source: T700839-08

Prepared: 06/29/07 Analyzed: 07/02/07

Surrogate: 4-Bromofluorobenzene	518		ug/kg	500		104	65-135			
Benzene	224	5.0	"	250	ND	89.5	70-130			
Toluene	204	5.0	"	250	ND	81.4	70-130			
Ethylbenzene	225	5.0	"	250	ND	90.0	70-130			
m,p-Xylene	438	10	"	500	ND	87.6	70-130			
o-Xylene	225	5.0	"	250	ND	89.9	70-130			

Matrix Spike Dup (7062907-MSD1)

Source: T700839-08

Prepared: 06/29/07 Analyzed: 07/02/07

Surrogate: 4-Bromofluorobenzene	513		ug/kg	500		103	65-135			
Benzene	245	5.0	"	250	ND	98.1	70-130	9.16	20	
Toluene	222	5.0	"	250	ND	88.8	70-130	8.69	20	
Ethylbenzene	248	5.0	"	250	ND	99.3	70-130	9.78	20	
m,p-Xylene	479	10	"	500	ND	95.8	70-130	8.97	20	
o-Xylene	245	5.0	"	250	ND	98.1	70-130	8.66	20	

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Green Analytical
75 Suttle Street
Durango CO, 81303

Project: COGCC
Project Number: [none]
Project Manager: Debbie Zufelt

Reported:
07/05/07 14:04

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Client:

COG-CE

Contact:

Baren Spray

Address:

PO 1301 2651

1

DKO, CO 81302

Phone Number: _____

Number: 859-1619

FAA NUMBER:

Number: 809-9128

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

PO#

Project Name:

Table 1. – Matrix Type

1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY

GAL JOB #

706.127

Samplers Signature:

presenting

Lab Name: Green Analytical Laboratories, Inc.

(970) 247-4220

FAX (970) 247-4227

Analyses Required

Address: 75 Suttle Street, Durango, CO 81303

[illegible]

* Sample Reject: [] Return ☒ Dispose [] Store (30 Days)

TRANSMISSION VERIFICATION REPORT

TIME : 07/26/2007 11:40
NAME :
FAX : 9702479661
TEL :
SER.# : J6J266461

DATE, TIME
FAX NO./NAME
DURATION
PAGE(S)
RESULT
MODE

07/26 11:40
13038942109
00:00:27
02
OK
STANDARD
ECM



DEPARTMENT OF NATURAL
RESOURCES
P.O. Box 2651
Durango, CO 81302-2651
Phone: (970) 259-1619
FAX: (970) 259-9128
www.cogcc.state.co.us

Fax

To: Debbie Baldwin

From: Karen Spray *Karen*

Fax: 303-894-2109

Pages: [Click here and type # of pages]

Phone: 303-894-2100x111

Date: 07/26/2007

Re: GAL Invoice

CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Debbie:

Attached is an invoice from GAL for soil samples associated with a complaint on the Red Mesa. Do you want me to route these through you or Margaret in the future? Or just on to Angie?

Karen



DEPARTMENT OF NATURAL
RESOURCES
P.O. Box 2651
Durango, CO 81302-2651
Phone: (970) 259-1619
FAX: (970) 259-9128
www.cogcc.state.co.us

Fax

To: Debbie Baldwin

From: Karen Spray *Karen*

Fax: 303-894-2109

Pages: [Click [here](#) and type # of pages]

Phone: 303-894-2100x111

Date: 07/26/2007

Re: GAL Invoice

CC:

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

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Karen

Green Analytical Laboratories, Inc.

Invoice

75 Suttle Street
Durango, CO 81303

DATE	INVOICE #
7/16/2007	GAL-7538

RECEIVED

JUL 26 2007

COGCC

OK - KLS
7/26/07
complaint

200112795

BILL TO	JUL 26 2007
COGCC 1120 Lincoln St., Ste #801 Denver, CO 80203	COGCC

SHIP TO
COGCC PO Box 2651 Durango, CO 81302 Karen Spray

x

		P.O. NO.	TERMS	DUE DATE	Green Analytical Labo...	PROJECT NAME
		08000000006	Net 30	8/15/2007	706-127	Herrera PM
ITEM	DESCRIPTION	QUANTITY	RATE	AMOUNT		
Alkalinity	Alkalinity	1	15.00	15.00		
Chloride	Chloride	1	15.00	15.00		
EC	Conductivity	1	12.00	12.00		
Fluoride	Fluoride	1	15.00	15.00		
pH	pH	1	12.00	12.00		
Sulfate	Sulfate	1	15.00	15.00		
Calcium	Calcium	1	12.00	12.00		
Iron	Iron	1	12.00	12.00		
Magnesium	Magnesium	1	12.00	12.00		
Potassium	Potassium	1	12.00	12.00		
Sodium	Sodium	1	12.00	12.00		
Extract	1:1 Extract	1	10.00	10.00		
TPH Gas,BETX,	TPH Gas, BTEX, Method 8015M,8021	1	65.00	65.00		
TPHDRO, ORO	TPHDRO & Motor Oil	1	75.00	75.00		
				Total	\$294.00	

REMIT TO: Green Analytical Laboratories
75 Suttle Street
Durango, CO 81303

Phone #

970-247-4220