

June 14, 2011

Debbie Zufelt

Green Analytical Laboratories

75 Suttle Street

Durango, CO 81303

RE: BP

Enclosed are the results of analyses for samples received by the laboratory on 05/26/11 12:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Green Analytical Laboratories
Debbie Zufelt
75 Suttle Street
Durango CO, 81303
Fax To: (970) 247-4227

Received: 05/26/2011
Reported: 06/14/2011
Project Name: BP
Project Number: 1105-118-01,02
Project Location: NOT GIVEN

Sampling Date: 05/23/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BACKGROUND (H101090-01)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2011	ND	2.01	100	2.00	3.65	
Toluene*	<0.050	0.050	05/27/2011	ND	1.95	97.7	2.00	4.21	
Ethylbenzene*	<0.050	0.050	05/27/2011	ND	1.98	99.0	2.00	3.69	
Total Xylenes*	<0.150	0.150	05/27/2011	ND	5.86	97.7	6.00	3.97	

Surrogate: 4-Bromofluorobenzene (PIL) 97.1 % 70-130

PAH 8270C		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	06/11/2011	ND	0.054	108	0.0500	2.36	
2-Methylnaphthalene	<0.040	0.040	06/11/2011	ND					
1-Methylnaphthalene	<0.040	0.040	06/11/2011	ND					
Acenaphthylene	<0.040	0.040	06/11/2011	ND	0.060	119	0.0500	5.36	
Acenaphthene	<0.040	0.040	06/11/2011	ND	0.054	108	0.0500	0.910	
Fluorene	<0.040	0.040	06/11/2011	ND	0.065	131	0.0500	0.824	
Phenanthrene	<0.040	0.040	06/11/2011	ND	0.052	105	0.0500	1.17	
Anthracene	<0.040	0.040	06/11/2011	ND	0.053	106	0.0500	0.413	
Carbazole	<0.040	0.040	06/11/2011	ND	0.037	74.8	0.0500	6.76	
Fluoranthene	<0.040	0.040	06/11/2011	ND	0.038	75.8	0.0500	10.1	
Pyrene	<0.040	0.040	06/11/2011	ND	0.033	65.1	0.0500	9.45	
Benzo[a]anthracene	<0.040	0.040	06/11/2011	ND	0.045	89.5	0.0500	15.7	
Chrysene	<0.040	0.040	06/11/2011	ND	0.052	105	0.0500	0.516	
Benzo[b]fluoranthene	<0.040	0.040	06/11/2011	ND	0.027	55.0	0.0500	11.1	

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*=Accredited Analyte

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Sample Received By: Jodi Henson

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PAH 8270C		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzo[k]flouranthene	<0.040	0.040	06/11/2011	ND	0.028	55.5	0.0500	7.36	
Benzo[a]pyrene	<0.040	0.040	06/11/2011	ND	0.026	51.3	0.0500	16.8	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	06/11/2011	ND	0.078	155	0.0500	4.15	
Dibenz[a,h]anthracene	<0.040	0.040	06/11/2011	ND	0.073	146	0.0500	1.19	
Benzo[g,h,i]perylene	<0.040	0.040	06/11/2011	ND	0.074	148	0.0500	0.407	

Surrogate: Nitrobenzene-d5 39.8 % 35-114
Surrogate: 2-Fluorobiphenyl 48.5 % 43-116
Surrogate: Terphenyl-dl4 49.9 % 33-141

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/29/2011	ND	172	85.9	200	9.14	
DRO >C10-C28	<10.0	10.0	05/29/2011	ND	159	79.5	200	8.55	
EXT DRO >C28-C35	<10.0	10.0	05/29/2011	ND					

Surrogate: 1-Chlorooctane 113 % 70-130
Surrogate: 1-Chlorooctadecane 107 % 70-130

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Project Location: NOT GIVEN

Sampling Date: 05/23/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: FLOW PATH (H101090-02)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2011	ND	2.01	100	2.00	3.65	
Toluene*	<0.050	0.050	05/27/2011	ND	1.95	97.7	2.00	4.21	
Ethylbenzene*	<0.050	0.050	05/27/2011	ND	1.98	99.0	2.00	3.69	
Total Xylenes*	<0.150	0.150	05/27/2011	ND	5.86	97.7	6.00	3.97	

Surrogate: 4-Bromofluorobenzene (PIL) 96.3 % 70-130

PAH 8270C		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	06/11/2011	ND	0.054	108	0.0500	2.36	
2-Methylnaphthalene	<0.040	0.040	06/11/2011	ND					
1-Methylnaphthalene	<0.040	0.040	06/11/2011	ND					
Acenaphthylene	<0.040	0.040	06/11/2011	ND	0.060	119	0.0500	5.36	
Acenaphthene	<0.040	0.040	06/11/2011	ND	0.054	108	0.0500	0.910	
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Pyrene	<0.040	0.040	06/11/2011	ND	0.033	65.1	0.0500	9.45	
Benzo[a]anthracene	<0.040	0.040	06/11/2011	ND	0.045	89.5	0.0500	15.7	
Chrysene	<0.040	0.040	06/11/2011	ND	0.052	105	0.0500	0.516	
Benzo[b]flouranthene	<0.040	0.040	06/11/2011	ND	0.027	55.0	0.0500	11.1	

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Surrogate: 1-Chlorooctane 107 % 70-130
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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



Cardinal
CHAIN OF CUSTODY RECORD

Page ____ of ____

Client: GREEN ANALYTICAL
Contact: DEBBIE ZUFELT
Address: 75 SUTTLE ST
DURANGO, CO 81303
Phone Number: 970-247-4220
FAX Number: 970-247-4227

NOTES:

- 1) Ensure proper container packaging.
 - 2) Ship samples promptly following collection.
 - 3) Designate Sample Reject Disposition.
- PO# GA11-119
Project Name: BP -

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 #

Samplers Signature: _____

Wolf Point Row

PLEASE CALL WITH ANY QUESTIONS

Lab Name: Green Analytical Laboratories		(970) 247-4220		FAX (970) 247-4227											
Address: 75 Suttle Street, Durango, CO 81303															
Sample ID	Collection		Miscellaneous			Preservative(s)						Analyses Required	Comments		
	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH			Other (Specify)	
<u>H101090</u>															
1. Background	5-23-11	1335	LMH	3	1		X						X	X	1105-118-01
2. Flow Path	↓	↓	↓	3	1		X						X	X	-02
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															
Relinquished by: <u>Debbie Zufelt</u>		Date: <u>5-25-11</u>		Time: <u>1600</u>		Received by: <u>John Hanson</u>		Date: <u>5/26/11</u>		Time: <u>12:30</u>					
Relinquished by:		Date:		Time:		Received by:		Date:		Time:					

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

50 #26